Shobhit University
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SHOBHIT UNIVERSITY GANGOH
School of Agriculture and Environmental Sciences

Date: 15/06/2019

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 25.06.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Confirmation of the minutes of the previous meeting.
2. Approval of Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester updated w.e.f the Academic Session 2019-20.
3. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Agriculture Hons. for the session **July to December 2019.**
4. Discussion on the Value Added courses offered for students and ratification of the same.
5. Any other matter with the permission of the Chair.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 15/06/2019

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 25.06.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,
Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture SHOBHIT UNIVERSITY GANGOH (U.P.) H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 15/06/2019

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 25.06.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

With regards,
Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 25/06/2019

Attendance Sheet (13th BOS Meeting)

Sr. No	Name	External/Internal Member	Signature
1.	Prof.(Dr.) J. P. Singh	External	
2.	Prof.(Dr.) Rajbir Singh	External	
3.	Mr. Vikas Kumar	Internal	
4.	Mr. Amit Kumar	Internal	

Chairman

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
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School of Agriculture & Environmental Sciences

Date: 25.06.2019

Minutes of the Meeting of Board of Studies

13th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 25th June 2019. The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
2.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External Expert
4.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
5.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 13.1: Approval of the Minutes of the 12th BOS Meeting held on 24 Dec, 2018 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 13.2: Approval of Revision in Scheme & Syllabi of B.Sc. Agriculture Hons. 1st to 8th Semester updated w.e.f the Academic Session 2019-20 {Annexure-2}

- **BOS members approved Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester.**

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Item BOS 13.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Agriculture Hons. for the session **July to December 2019**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 13.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academies)

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Annexure-1 (Item BOS-13.1)

School of Agriculture & Environmental Sciences

Date: 24.12.2018

Minutes of the Meeting of Board of Studies

12th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 24th Dec. 2018 at 10:00 AM. The following members were present in the meeting:

6.	Dr. Mohd. Quseen Akhtar Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairman
7.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbeer Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
5.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice based Course System:

Item BOS 12.1: Approval of the Minutes of the 11th BOS Meeting held on 16th June 2018
Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

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Item BOS 12.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of academic session. The BOS members noted the same.

Item BOS 12.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 12.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc.Ag. Hons. for session **Jan. to June 2019** . The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 12.5: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Allied Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.o.D. ★

(Chairman, BOS)

SHOBHIT UNIVERSITY GANGOH ★ REGISTRAR ★ Saharanpur (U.P.)

(Dean Academies)

(Vice Chancellor)

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Annexure-2 (Item BOS-13.2)

Shobhit University, Gangoh

(Established by UP Shobhit University Act No. 3, 2012)

School of Agriculture and Environmental Sciences

Ordinances, Regulations & Syllabus

For

Bachelor of Science in Agriculture (B.Sc. Ag.) Four Year Programme Semester Pattern
(W.e.f. session 2013-14)

Revised and approved in the year 2019 (13th Meeting of the Board of Studies)

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Examination and Evaluation System

- Fifth Deans' Committee deliberated on the examination and evaluation system being followed by different universities. The Committee recommends Uniform Grading system to be followed with uniform OGPA requirements for award of degrees at all levels and uniform conversion formulae to be followed for declaration of I, II and III divisions, distinctions etc. Declaration of division in the degree certificate to be made compulsory by all universities:

Examination

- External theory (50%)
- Internal Theory + Practical (50%)
- Courses with Theory and Practical: Mid-term Exam (30%) + Assignment (5%) in practical oriented courses + Practical (15%)
- Courses with only Theory: Mid-term Exam (40%) + Assignment (10%)
- Courses with only Practical: (100%) Internal
- Paper to be set by external: HOD shall ensure the coverage of syllabus. If needed moderation can be done.
- Evaluation to be done internally by the faculty other than the Course Instructor. Syllabus of the concerned course shall be sent to the external examiner, who shall prepare the question papers. For practical, it is recommended that examination shall be conducted by course instructor(s) and one teacher nominated by HOD.

Evaluation

Degree	Percentage of Marks Obtained	Conversion into Points
All	100	10 Points
	90 to <100	9 to <10
	80 to <90	8 to <9
	70 to <80	7 to <8
	60 to <70	6 to <7
	50 to <60	5 to <6
	<50 (Fail)	<5
	Eg. 80.76	8.076
	43.60	4.360
	72.50 (but shortage in attendance)	Fail (1 point)

OGPA	Division
5.000 – 5.999	Pass
6.000 – 6.999	II division
7.000 – 7.999	I division
8.000 and above	I division with distinction

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- GPA =Total points scored/Total credits (for1semester)
- CGPA =∑ Total points scored / Course credits
- OGPA = ∑ Total points scored (after excluding failure points)/ Course credits
- % of Marks = OGPA x 100/10

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R-I

B.Sc. (Ag.) SEMESTER-I						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-101	Fundamentals of Horticulture	2	1	0	2
2.	BAG-103	Fundamentals of Plant Biochemistry and Biotechnology	3	2	0	2
3.	BAG-105	Fundamentals of Soil Science	3	2	0	2
4.	BAG-107	Introduction to Forestry	2	1	0	2
5.	BAG-109/ BAG-109A/ BAG-109B/ BAG-109C/	Comprehension & Communication Skills in English/ English Grammar-I/ Soft Skills-I/ Life Management-I/	2	1	0	2
6.	BAG-111	Fundamentals of Agronomy	4	3	0	2
7.	BAG-113	Introductory Biology*	1	1	0	0
8.	BAG-115/ BAG-115A BAG-115B	Elementary Mathematics*/ Fundamentals of Statistics/ Statistical Thinking and Data Analysis	2	2	0	0
9.	BAG-117	Agricultural Heritage*	1	1	0	0
10.	BAG-119/ BAG-119A/ BAG-119B/ BAG-119C	Rural Sociology & Educational Psychology/ Science, Technology, and Society/ Women's and Gender Studies/ Geography of the Global Economy	2	2	0	0
11.	BAG-121/ BAG-121A/ BAG-121B/ BAG121C/	Human Values & Ethics (non gradial)/ Global Climate Policy and Sustainability/ Planetary Change and Human Health/ Tools for Sustainable Design	1	1	0	0
12.	BAG123/ BAG-123A/ BAG-123B/ BAG-123C	NSS/ NCC/ Physical Education & Yoga Practices**/ Water, Sanitation and Hygiene	2	0	0	4
	Total		**25**	**17**	**0**	**16**

R: Remedial course; **NC: Non-gradial courses- 18+03*+03*

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R-II

B.Sc. (Ag.) SEMESTER-II						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-102	Fundamentals of Genetics	3	2	0	2
2.	BAG-104	Agricultural Microbiology	2	1	0	2
3.	BAG-106	Soil and Water Conservation Engineering	2	1	0	2
4.	BAG-108	Fundamentals of Crop Physiology	2	1	0	2
5.	BAG-110	Fundamentals of Agricultural Economics	2	2	0	0
6.	BAG-112	Fundamentals of Plant Pathology	4	3	0	2
7.	BAG-114	Fundamentals of Entomology	4	3	0	2
8.	BAG-116	Fundamentals of Agricultural Extension Education	3	2	0	2
9.	BAG-118/ BAG-118A/ BAG-118B/ BAG-118C	Communication Skills and Personality Development/ English Grammar-II/ Soft Skills-II/ Life Management-II/	2	1	0	2
	Total		24	16	0	16

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R-III

B.Sc. (Ag.) SEMESTER-III						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-201	Crop Production Technology – I (Kharif Crops)	2	1	0	2
2.	BAG-203	Fundamentals of Plant Breeding	3	2	0	2
3.	BAG-205	Agricultural Finance and Cooperation	3	2	0	2
4.	BAG-207	Agri- Informatics	2	1	0	2
5.	BAG-209	Farm Machinery and Power	2	1	0	2
6.	BAG-211	Production Technology for Vegetables and Spices	2	1	0	2
7.	BAG-213	Environmental Studies and Disaster Management	3	2	0	2
8.	BAG-215/ BAG-215A/ BAG-215B/ BAG-215C	Statistical Methods/ Introduction to Mathematical Programming/ Introduction to Modeling and Simulation/ Algebraic Techniques and Semidefinite Optimization	2	1	0	2
9.	BAG-217	Livestock and Poultry Management	4	3	0	2
	Total		23	14	0	18

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B.Sc. (Ag.) SEMESTER-IV						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-202	Crop Production Technology –II (Rabi Crops)	2	1	0	2
2.	BAG-204	Production Technology for Ornamental Crops, MAP and Landscaping	2	1	0	2
3.	BAG-206	Renewable Energy and Green Technology	2	1	0	2
4.	BAG-208	Problematic Soils and their Management	2	1	0	0
5.	BAG-210	Production Technology for Fruit and Plantation Crops	2	1	0	2
6.	BAG-212	Principles of Seed Technology	3	2	0	2
7.	BAG-214	Farming System & Sustainable Agriculture	1	1	0	0
8.	BAG-216	Agricultural Marketing Trade & Prices	3	2	0	2
9.	BAG-218	Introductory Agro-meteorology & Climate Change	2	1	0	2
10.	BAG-220	Agribusiness Management (Elective Course)	3	2	0	2
	Total		**22**	**13**	**0**	**16**

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B.Sc. (Ag.) SEMESTER-V						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-301	Principles of Integrated Pest and Disease Management	3	2	0	2
2.	BAG-303	Manures, Fertilizers and Soil Fertility Management	3	2	0	2
3.	BAG-305	Pests of Crops and Stored Grain and their Management	3	2	0	2
4.	BAG-307	Diseases of Field and Horticultural Crops and their Management –I	3	2	0	2
5.	BAG-309	Crop Improvement-I (Kharif Crops)	2	0	0	4
6.	BAG-311/ BAG-311A/ BAG-311B/ BAG-311C	Entrepreneurship Development and Business Communication/ English Grammar-III/ Soft Skills-III/ Life Management-III	2	1	0	2
7.	BAG-313	Geo-informatics, Nano-technology and Precision Farming	2	1	0	2
8.	BAG-315	Practical Crop Production – I (Kharif crops)	2	1	0	2
9.	BAG-317/ BAG-317A/ BAG-317B	Intellectual Property Rights/ Research Methodology/ Publication Ethics and Emerging trends in Research	1	1	0	0
10.	BAG-319	Landscaping (Elective Course)	3	2	0	2
	Total		24	14	0	20

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B.Sc. (Ag.) SEMESTER-VI						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-302	Rainfed Agriculture & Watershed Management	2	1	0	2
2.	BAG-304	Protected Cultivation and Secondary Agriculture	2	1	0	2
3.	BAG-306	Diseases of Field and Horticultural Crops and their Management-II	3	2	0	2
4.	BAG-308	Post-harvest Management and Value Addition of Fruits and Vegetables	2	1	0	2
5.	BAG-310	Management of Beneficial Insects	2	1	0	2
6.	BAG-312	Crop Improvement-II (Rabi crops)	2	1	0	2
7.	BAG-314	Practical Crop Production –II (Rabi crops)	2	1	0	2
8.	BAG-316	Principles of Organic Farming	2	1	0	2
9.	BAG-318	Farm Management, Production & Resource Economics	2	1	0	2
10.	BAG-320	Principles of Food Science and Nutrition	2	2	0	0
11.	BAG-344	Agricultural Journalism (Elective Course)	3	2	0	2
	Total		**24**	**14**	**0**	**20**

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B.Sc. (Ag.) SEMESTER-VII				
S. No	Subject Code	Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE &AIA)		
		Activities	No. of weeks	Credit Hours
1.	BAG-401	General orientation & On campus training by different faculties	1	14
2.	BAG-403	Village attachment	8	
3.	BAG-405	Unit attachment in Univ./College.KVK /Research Station Attachment	5	
4.	BAG-407	Plant clinic	2	02
5.	BAG-409	Agro-Industrial Attachment	3	04
6.	BAG-411	Project Report Preparation, Presentation and Evaluation	1	
	Total weeks for RAWE & AIA		20	20

- Agro- Industrial Attachment: The students would be attached with the agro-industries for a period of 3 weeks to get an experience of the industrial environment and working.
- Educational tour will be conducted in break between IV & V Semester or VI & VII Semester

RAWE

Component-I: Village Attachment Training Programme

S. No	Activity	Duration
1.	Orientation and Survey of Village	1 week
2.	Agronomical Interventions	1 week
3.	Plant Protection Interventions	1 week
4.	Soil Improvement Interventions (Soil sampling and testing)	1 week
5.	Fruit and Vegetable production interventions	1 week
6.	Food Processing and Storage interventions	
7.	Animal Production Interventions	1 week
8.	Extension and Transfer of Technology activities	1 week

Component –II: Agro Industrial Attachment

- Students shall be placed in Agro and Cottage industries and Commodities Boards for 03 weeks.
- Industries include Seed/Sapling production, Pesticides-insecticides, Post-harvest-processing- value addition, Agri-finance institutions etc.

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B.Sc. (Ag.) SEMESTER-VIII						
S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-402	Production Technology for Bio agents and Bio fertilizer	1	0	0	2
2.	BAG-404	Seed Production and Technology	1	0	0	2
3.	BAG-406	Mushroom Cultivation Technology	1	0	0	2
4.	BAG-408	Soil, Plant, Water and Seed Testing	1	0	0	2
5.	BAG-410	Commercial Beekeeping	1	0	0	2
6.	BAG-412	Poultry Production Technology	1	0	0	2
7.	BAG-414	Commercial Horticulture	1	0	0	2
8.	BAG-416	Floriculture and Landscaping	1	0	0	2
9.	BAG-418	Food Processing	1	0	0	2
10.	BAG-420	Agriculture Waste Management	1	0	0	2
11.	BAG-422	Organic Production Technology	1	0	0	2
12.	BAG-424	Commercial Sericulture	1	0	0	2
	Total		**12**	**0**	**0**	**24**

Evaluation of Experiential Learning Programme/ Hands-on Training (HOT)

S. No	Parameters	Max. Marks
1.	Project Planning and Writing	10
2.	Presentation	10
3.	Regularity	10
4.	Monthly Assessment	10
5.	Output delivery	10
6.	Technical Skill Development	10
7.	Entrepreneurship Skills	10
8.	Business networking skills	10
9.	Report Writing Skills	10
10.	Final Presentation	10
	Total	**100**

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EDUCATION EMPOWERS

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Elective Courses

A student can select three elective courses out of the following and offer during 4th (BAG- 220), 5th (BAG-319) and 6th (BAG-344) semesters.

S. No.	Courses	Credit Hours
1.	Agribusiness Management	3(2+1)
2.	Agrochemicals	3(2+1)
3.	Commercial Plant Breeding	3(1+2)
4.	Landscaping	3(2+1)
5.	Food Safety and Standards	3(2+1)
6.	BioPesticides & Biofertilizers	3(2+1)
7.	Protected Cultivation	3(2+1)
8.	Micro propagation Technologies	3(1+2)
9.	Hi-tech. Horticulture	3(2+1)
10.	Weed Management	3(2+1)
11.	System Simulation and Agro-advisory	3(2+1)
12.	Agricultural Journalism	3(2+1)

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Programme Educational Objectives (PEOs)

PEO 1 Foundational Knowledge: Graduates will possess a strong understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural economics, enabling them to address challenges in the agricultural sector.

PEO 2 Practical Skills: Graduates will develop practical skills in modern agricultural practices, including crop production, pest management, and sustainable farming techniques, allowing them to effectively contribute to agricultural productivity.

PEO 3 Research and Innovation: Graduates will be equipped to engage in research and innovation, utilizing scientific methods to solve agricultural problems and contribute to advancements in the field.

PEO 4 Sustainability and Environmental Stewardship: Graduates will understand the principles of sustainable agriculture and environmental conservation, promoting practices that ensure food security while preserving natural resources.

PEO 5 Communication and Leadership: Graduates will possess effective communication and leadership skills, enabling them to work collaboratively in diverse teams and to advocate for agricultural development and policy changes.

PEO 6 Lifelong Learning: Graduates will be prepared for lifelong learning and professional development, adapting to emerging trends and technologies in agriculture to remain relevant in their careers.

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Programme Specific Objectives (PSO's)

PSO 1 To impart a strong foundation in agricultural science, including plant biology, soil science, and animal husbandry.

PSO 2 To develop practical skills through hands-on training in farming techniques, crop management, and animal care.

PSO 3 To encourage students to engage in research and innovation to address contemporary agricultural challenges, such as food security and sustainable farming.

PSO 4 To promote sustainable agricultural practices that protect the environment and enhance productivity.

PSO5 To familiarize students with the latest agricultural technologies, including precision farming, biotechnology, and data analytics.

PSO6 To provide insights into agricultural economics, marketing, and policy, enabling students to make informed decisions in the agricultural sector.

PSO7 To develop critical thinking and problem-solving skills necessary for effective decision-making in agriculture.

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Programme Outcome Objectives (POO's)

POO 1 Knowledge Application: Demonstrate a comprehensive understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural engineering.

POO 2 Research Skills: Conduct research using scientific methods, including data collection, analysis, and interpretation, to solve agricultural problems.

POO 3 Sustainable Practices: Promote sustainable agricultural practices that enhance productivity while preserving environmental health and biodiversity.

POO 4 Technical Proficiency: Utilize modern agricultural technologies and tools for efficient farming practices, including precision agriculture and biotechnology.

POO 5 Critical Thinking: Analyze and evaluate agricultural policies, practices, and issues critically, fostering informed decision-making.

POO 6 Communication Skills: Communicate effectively, both verbally and in writing, to diverse audiences, including farmers, policymakers, and the general public.

POO 7 Teamwork and Leadership: Work collaboratively in teams, demonstrating leadership skills in agricultural projects and initiatives.

POO 8 Economic Understanding: Understand the economic principles related to agricultural production, marketing, and management.

POO 9 Ethics and Responsibility: Uphold ethical standards in agricultural practices, considering social responsibilities and the impact on communities.

POO 10 Lifelong Learning: Foster a commitment to continuous learning and professional development in the agricultural sector.

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Course Structure

Ordinance and Regulations

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B.Sc. (Ag.) I Semester

BAG-101: Fundamentals of Horticulture

CO: COURSE OBJECTIVE

CO-1 Understanding Horticulture Basics: Define horticulture and its importance in agriculture and daily life. Differentiate between horticulture and other branches of plant science.

CO-2 Introduction to Horticultural Crops: Familiarize with various horticultural crops, including fruits, vegetables, flowers, and ornamental plants. Learn the classification of horticultural plants based on their growth habits, lifecycle, and economic importance.

CO-3 Environmental Factors and Plant Growth: Understand the influence of light, temperature, water, soil, and nutrients on the growth and development of horticultural crops. Study the effects of biotic and abiotic stresses on horticultural plants.

CO-4 Horticultural Practices: Learn the basic principles of plant propagation, including sexual and asexual methods. Understand the basics of nursery management, pruning, training, and crop management

CO-5 Soil and Water Management: Explore soil preparation techniques for horticultural crops. Study the importance of irrigation, drainage, and water conservation techniques.

CO-6 Plant Nutrition and Health: Learn about fertilizers, manures, and their application in horticulture. Understand integrated pest and disease management practices.

CO-7 Economic and Aesthetic Value of Horticulture: Recognize the role of horticulture in improving economic well-being and environmental sustainability. Study the use of ornamental plants in landscaping, floriculture, and urban gardening.

CO-8 Sustainability and Modern Techniques: Introduce sustainable horticultural practices such as organic farming and precision horticulture. Familiarize with advancements in biotechnology, tissue culture, and protected cultivation (e.g., greenhouses, playhouses).

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COURSE CONTENTS

Unit- I:

- Horticulture - Its definition and branches, importance and scope; horticultural and botanical classification; climate and soil for horticultural crops

Unit- II:

- Plant propagation-methods and propagating structures; Seed dormancy, Seed germination, principles of orchard establishment;

Unit- III:

- Principles and methods of training and pruning, juvenility and flower bud differentiation; unfruitfulness; pollination, pollinizers and pollinators; fertilization and parthenocarpy; medicinal and aromatic plants;

Unit- IV:

- Importance of plant bio-regulators in horticulture. Irrigation – methods, Fertilizer application in horticultural crops.

Practical:

Identification of garden tools. Identification of horticultural crops. Preparation of seed bed/ nursery bed. Practice of sexual and asexual methods of propagation including micro-propagation. Layout and planting of orchard. Training and pruning of fruit trees. Preparation of potting mixture. Fertilizer application in different crops. Visits to commercial nurseries/orchard.

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BAG-103: Fundamentals of Plant Biochemistry and Biotechnology

CO: COURSE OBJECTIVE

CO-1 Understand Plant Biochemical Processes: Develop a foundational understanding of the biochemical processes and pathways that drive plant growth, development, and metabolism.

CO-2 Explore Plant Metabolism: Analyze the roles of primary and secondary metabolites in plants, including their synthesis, regulation, and functional significance.

CO-3 Study Enzymatic Mechanisms: Learn the principles of enzymatic reactions and their applications in regulating plant physiological and biochemical processes.

CO-4 Integrate Biochemistry and Biotechnology: Explore the intersection of plant biochemistry with modern biotechnological tools for crop improvement, disease resistance, and sustainable agriculture.

CO-5 Apply Molecular Biology Tools: Gain proficiency in molecular techniques such as gene cloning, CRISPR, and recombinant DNA technology for studying and manipulating plant systems.

CO-6 Evaluate Plant Stress Responses: Understand biochemical mechanisms plants use to respond and adapt to biotic and abiotic stresses, and how these can be managed through biotechnology.

CO-7 Promote Sustainable Practices: Apply biotechnological advances to improve agricultural productivity, reduce environmental impact, and address global challenges like food security and climate change.

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COURSE CONTENTS

Unit- I:
Importance of Biochemistry. Properties of Water, pH and Buffer. Carbohydrate: Importance and classification. Structures of Monosaccharides, Reducing and oxidizing properties of Monosaccharides, Mutarotation; Structure of Disaccharides and Poly saccharides. Lipid: Importance and classification; Structures and properties of fatty acids; storage lipids and membrane lipids.

Unit- II:
Proteins: Importance of proteins and classification; Structures, titration and zwitterions nature of amino acids; Structural organization of proteins. Enzymes: General properties; Classification; Mechanism of action; Michaelis&Menten and Line Weaver Burk equation & plots; Introduction to allosteric enzymes. Nucleic acids: Importance and classification; Structure of Nucleotides, A, B & Z DNA; RNA: Types and Secondary & Tertiary structure.

Unit- III:
Metabolism of carbohydrates: Glycolysis, TCA cycle, Glyoxylate cycle, Electron transport chain. Metabolism of lipids: Beta oxidation, Biosynthesis of fatty acids.

Unit- IV:
Concepts and applications of plant biotechnology: Scope, organ culture, embryo culture, cell suspension culture, callus culture, anther culture, pollen culture and ovule culture and their applications; Micro-propagation methods; organogenesis and embryogenesis, Synthetic seeds and their significance; Embryo rescue and its significance; somatic hybridization and cybrids; Somaclonal variation and its use in crop improvement; cryo-preservation,

Unit- V:
Introduction to recombinant DNA methods: physical (Gene gun method), chemical (PEG mediated) and Agrobacterium mediated gene transfer methods; Transgenics and its importance in crop improvement; PCR techniques and its applications; RFLP, RAPD, SSR; Marker Assisted Breeding in crop improvement; Biotechnology regulations.

Practical:
Preparation of solution, pH & buffers, Qualitative tests of carbohydrates and amino acids.Quantitative estimation.of glucose/ proteins. Titration methods for estimation of amino acids/lipids, Effect of pH, temperature and substrate concentration on enzyme action, Paper chromatography/ TLC demonstration for separation of amino acids/ Monosaccharides. Sterilization techniques.Composition of various tissue culture media and preparation of stock solutions for MS nutrient medium. Callus induction from various explants. Micro- propagation, hardening and acclimatization.Demonstration on isolation of DNA. Demonstration of gel electrophoresis techniques and DNA finger printing.

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BAG-105: Fundamentals of Soil Science

CO: COURSE OBJECTIVE

CO-1 Understand Soil Formation and Properties: Develop an understanding of the processes of soil formation, including physical, chemical, and biological factors, and identify key soil properties that influence its classification and use.

CO-2 Analyze Soil Components: Examine the composition of soil, including minerals, organic matter, water, and air, and explain their roles in supporting plant growth and maintaining ecological balance.

CO-3 Explore Soil Classification Systems: Learn to classify soils based on their physical, chemical, and biological properties using standard classification systems such as Soil Taxonomy or FAO guidelines.

CO-4 Study Soil-Water Relationships: Investigate the movement, retention, and availability of water in soils and its impact on plant growth and agricultural productivity.

CO-5 Understand Soil Nutrients and Fertility: Analyze the role of essential soil nutrients, nutrient cycles, and soil amendments in maintaining soil fertility for sustainable agricultural practices.

CO-6 Evaluate Soil Degradation and Conservation: Identify the causes and consequences of soil degradation, including erosion, salinization, and pollution, and propose soil conservation strategies to enhance sustainability.

CO-7 Apply Soil Science to Environmental Issues: Explore the role of soil in addressing global environmental challenges, such as carbon sequestration, waste management, and ecosystem restoration.

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COURSE CONTENTS

Unit- I:

- Soil as a natural body, Pathological and edaphological concepts of soil; Soil genesis: soil forming rocks and minerals; weathering, processes and factors of soil formation; Soil Profile, components of soil;

Unit- II:

- Soil physical properties: soil-texture, structure, density and porosity, soil colour, consistence and plasticity; Elementary knowledge of soil taxonomy classification and soils of India; Soil water retention, movement and availability; Soil air, composition, gaseous exchange, problem and plant growth,

Unit- III:

- Soil temperature; source, amount and flow of heat in soil; effect on plant growth, Soil reaction-pH, soil acidity and alkalinity, buffering, effect of pH on nutrient availability; soil colloids-inorganic and organic; silicate clays: constitution and properties; sources of charge; ion exchange, cation exchange capacity, base saturation; soil organic matter: composition, properties and its influence on soil properties; humic substances - Nature and properties;

Unit- IV:

- Soil organisms: macro and microorganisms, their beneficial and harmful effects; Soil pollution - behavior of pesticides and inorganic contaminants, prevention and mitigation of soil pollution.

Practical:

Study of soil profile in field. Study of soil sampling tools, collection of representative soil sample, its processing and storage. Study of soil forming rocks and minerals. Determination of soil density, moisture content and porosity. Determination of soil texture by feel and Bouyoucos Methods. Studies of capillary rise phenomenon of water in soil column and water movement in soil. Determination of soil pH and electrical conductivity. Determination of cation exchange capacity of soil.Study of soil map. Determination of soil colour. Demonstration of heat transfer in soil. Estimation of organic matter content of soil

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BAG-107: Introduction to Forestry

CO: COURSE OBJECTIVE

CO-1 Understand the Basics of Forestry: Explain the definition, history, and importance of forestry in ecological and economic contexts.\

CO-2 Explore Forest Ecosystems: Identify the components of forest ecosystems, including flora, fauna, soil, and climate interactions.

CO-3 Comprehend Forest Management Practices: Analyze sustainable forest management principles and practices, including conservation, afforestation, and silviculture techniques.

CO-4 Evaluate Forest Resources and Their Uses: Discuss the economic, recreational, and environmental significance of forest products and services.

CO-5 Analyze the Role of Forestry in Climate Change Mitigation: Examine how forests contribute to carbon sequestration, biodiversity conservation, and climate resilience.

CO-6 Understand Forestry Policies and Regulations: Assess national and international forestry policies, laws, and their impact on conservation and forest management.

CO-7 Develop Skills in Forest Assessment and Monitoring: Practice using tools and techniques for forest inventory, mapping, and monitoring forest health.

CO-8 Explore Career Opportunities in Forestry: Discuss various career paths in forestry, ranging from field-based roles to research, policy-making, and environmental advocacy

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COURSE CONTENTS

Unit- I:

- Introduction – definitions of basic terms related to forestry, objectives of silviculture, forest classification, salient features of Indian Forest Policies. Forest regeneration, Natural regeneration - natural regeneration from seed and vegetative parts, coppicing, pollarding, root suckers

Unit- II:

- Artificial regeneration – objectives, choice between natural and artificial regeneration, essential preliminary considerations. Crown classification. Tending operations – weeding, cleaning, thinning – mechanical, ordinary, crown and advance thinning. Forest mensuration – objectives, diameter measurement, instruments used in diameter measurement

Unit- III:

- Non instrumental methods of height measurement - shadow and single pole method; Instrumental methods of height measurement - geometric and trigonometric principles, instruments used in height measurement; tree stem form, form factor, form quotient, measurement of volume of felled and standing trees, age determination of trees

Unit- IV:

- Agroforestry – definitions, importance, criteria of selection of trees in agroforestry, different agroforestry systems prevalent in the country, shifting cultivation, taungya, alley cropping, wind breaks and shelter belts, home gardens. Cultivation practices of two important fast growing tree species of the region.

Practical:

Identification of tree-species. Diameter measurements using calipers and tape, diameter measurements of forked, buttressed, fluted and leaning trees. Height measurement of standing trees by shadow method, single pole method and hypsometer. Volume measurement of logs using various formulae. Nursery lay out, seed sowing, vegetative propagation techniques. Forest plantations and their management. Visits of nearby forest based industries.

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BAG-109: Comprehension & Communication Skills in English

CO: COURSE OBJECTIVE

CO-1 Develop Strong Comprehension Skills: Improve the ability to read, understand, and analyze texts, identifying main ideas, themes, and arguments.

CO-2 Enhance Vocabulary and Grammar: Expand vocabulary and strengthen grammar usage to enable more effective communication.

CO-3 Master Listening Skills: Develop the ability to comprehend spoken English in various contexts, such as lectures, conversations, and media.

CO-4 Improve Speaking Abilities: Build confidence and fluency in verbal communication, including presenting ideas clearly and engaging in discussions.

CO-5 Refine Writing Skills: Strengthen the ability to write well-structured essays, reports, and creative pieces.

CO-6 Increase Cultural Awareness: Understand the nuances of language use in different cultural contexts and improve cross-cultural communication.

CO-7 Practice Effective Argumentation: Learn to construct and present well-reasoned arguments, supported by evidence and coherent logic.

CO-8 Enhance Interpersonal Communication: Improve interpersonal communication skills through role-play, debates, and group discussions to foster collaboration and teamwork.

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COURSE CONTENTS

Unit- I:

- War Minus Shooting- The sporting Spirit. A Dilemma- A layman looks at science Raymond B. Fosdick. You and Your English – Spoken English and broken English
  G.B. Shaw.

Unit- II:

- Reading Comprehension, Vocabulary- Antonym, Synonym, Homophones, Homonyms, often confused words. Exercises to Help the students in the enrichment of vocabulary based on TOEFL and other competitive examinations.

Unit- III:

- Functional grammar: Articles, Prepositions, Verb, Subject verb Agreement, Transformation, Synthesis, Direct and Indirect Narration. Written Skills: Paragraph writing, Precise writing, Report writing and Proposal writing.

Unit- IV:

- The Style: Importance of professional writing. Preparation of Curriculum Vitae and Job applications. Synopsis Writing. Interviews: kinds, Importance and process.

Practical:

Listening Comprehension: Listening to short talks lectures, speeches (scientific, commercial and general in nature). Oral Communication: Phonetics, stress and intonation, Conversation practice. Conversation: rate of speech, clarity of voice, speaking and Listening, politeness &Reading skills: reading dialogues, rapid reading, intensive reading, improving readingskills. Mock Interviews: testing initiative, team spirit, leadership, intellectual ability. Group Discussions.

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BAG-109 A: English Grammar-I

CO: COURSE OBJECTIVE

CO-1 Understand Basic Grammar Concepts: To introduce students to fundamental concepts of English grammar, including sentence structure, parts of speech, and punctuation.

CO-2 Enhance Sentence Formation: To develop the ability to construct grammatically correct and varied sentences, with a focus on clarity and coherence.

CO-3 Master Verb Tenses: To help students understand and accurately use different verb tenses, including present, past, and future forms, in both simple and continuous aspects.

CO-4 Improve Vocabulary and Word Usage: To expand students' vocabulary and guide them in using words appropriately within different grammatical contexts.

CO-5 Grasp Subject-Verb Agreement: To teach the rules of subject-verb agreement and how to apply them in diverse sentence structures.

CO-6 Learn Sentence Types and Functions: To provide knowledge of different types of sentences (declarative, interrogative, imperative, and exclamatory) and their functions in communication.

CO-8 Practice Pronouns and Their Functions: To familiarize students with the correct usage of pronouns, including personal, possessive, and reflexive forms, and how they function in sentences.

CO-8 Develop Punctuation Skills: To improve students' understanding and correct usage of punctuation marks (periods, commas, semicolons, colons, quotation marks, etc.) to enhance written communication.

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COURSE CONTENTS

Unit I

Introduction to Grammar, Overview of grammar and its importance, Parts of speech: nouns, pronouns, verbs, Types of nouns: common, proper, collective.

Unit II

Pronouns: subject, object, possessive, Verb types: action, linking, auxiliary, Tenses: present, past, future, Functions of adjectives and adverbs, Comparative and superlative forms.

Unit III

Basic sentence components: subject, predicate, Types of sentences: simple, compound, complex, Commas, periods, question marks, exclamation points, Quotation marks and apostrophes.

Unit IV

Subject-verb agreement, Misplaced modifiers, Sentence fragments and run-ons, Comprehensive review of topics covered, Practice exercises and quizzes

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BAG-109 B: Soft Skills-I

CO: COURSE OBJECTIVE

CO-1 Enhance Communication Skills: Develop verbal, non-verbal, and written communication techniques to express ideas clearly and effectively.

CO-2 Build Teamwork and Collaboration: Foster the ability to work collaboratively in diverse groups, understanding group dynamics and conflict resolution.

CO-3 Improve Time Management: Learn strategies to prioritize tasks, manage time efficiently, and meet deadlines in professional and personal contexts.

CO-4 Develop Emotional Intelligence: Cultivate self-awareness, empathy, and the ability to manage emotions in interpersonal relationships and challenging situations.

CO-5 Strengthen Critical Thinking and Problem-Solving: Encourage analytical thinking to evaluate situations and propose creative, practical solutions.

CO-7 Boost Confidence and Public Speaking Skills: Build self-confidence and refine public speaking skills to present ideas effectively in formal and informal settings.

CO-8 Cultivate Professional Ethics and Workplace Etiquette: Understand and apply ethical principles and appropriate behavior in professional environments.

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COURSE CONTENTS

Unit I

Presentation Skills, Speaking to a small group and large audience, Barriers to communication and non- verbal communication, Language skills, Types of presentation and use of aids, Effective public speaking.

Unit II

Memory Skills, Memory system, Short term and long term memory, Causes of memory problems, Methods of improving memory, preventing loss of memory.

Unit III

Technical Writing Skills, Defining Technical Communication and Organizing Information, Language in Technical Communication.

Unit IV

Description Vs Narration Vs Instruction, Letters, Memos, Electronic Communication, Formal and Informal Reports

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BAG-109 C: Life Management-I

CO: COURSE OBJECTIVE

CO-1 Self-Awareness Development: Understand personal strengths, weaknesses, values, and goals. Develop emotional intelligence to manage self and relationships effectively.

CO-2 Time and Priority Management: Learn strategies for effective time management. Set realistic goals and prioritize tasks to enhance productivity.

CO-3 Stress and Emotional Regulation: Identify sources of stress and implement techniques to manage it. Develop coping mechanisms for emotional well-being.

CO-4 Communication Skills: Build effective verbal and non-verbal communication skills. Enhance active listening and interpersonal communication abilities.

CO-5 Decision-Making and Problem-Solving: Learn frameworks for making informed decisions. Cultivate problem-solving skills to handle life challenges.

CO-6 Work-Life Balance: Understand the importance of balancing personal and professional life. Implement strategies to achieve harmony and avoid burnout.

CO-7 Personal Growth and Goal Setting: Set and achieve short-term and long-term personal goals. Develop a growth mindset and strategies for continuous improvement.

CO-8 Health and Well-Being: Recognize the importance of physical and mental health. Learn basic wellness practices for a balanced lifestyle.

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COURSE CONTENTS

Unit I

Life Style & its Basics, Purpose of life & its dimensions, Importance of Self-Evaluation; (Daily routine, Food habits, Dressing Sense, Habit formation, Company, Etiquettes), Duties & Commitment of Self, Family and Society, Adjustment with Self & Environment.

Unit II

Work Efficiency, Positive way of thinking, Tools & techniques for Positive thinking, Karma & Karma Phal Sidhanta, Behavioral Skill.

Unit III

Personality Skills, Self-Assessment Techniques, Adjustment Skills, Art of Positive Thinking.

Unit IV

Environmental Awareness, Basic Concept of Environment & Ecology, Natural Resources, Environmental Ethics.

Unit V

Life and Deeds of Pt. Shriram Sharma Acharya and Mataji, Gayatri Pariwar and its Branches, Vichar Kranti, Atmdev Sadhna: Atmbodh and Tatvabodh, Pranayama: Nadishodhan, Pranakarshan, Diary Writing.

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BAG-111: Fundamentals of Agronomy

CO: COURSE OBJECTIVE

CO-1 Understanding Crop Growth and Development: Learn about the life cycle of crops and factors influencing their growth. Study the physiological and morphological characteristics of crops.

CO-2 Basics of Soil Science: Understand soil properties, classification, and its role in crop production. Learn about soil fertility, nutrient management, and amendments.

CO-3 Crop Management Practices: Gain knowledge about crop planting methods, spacing, and cropping systems. Understand weed control, irrigation, and pest management practices.

CO-4 Climate and Agriculture: Explore the impact of weather and climate on crop production. Study agro climatic zones and their significance in crop planning.

CO-5 Sustainable Agriculture: Learn principles of sustainable land use, conservation practices, and integrated nutrient management. Focus on resource efficiency and minimizing environmental impact.

CO-7 Introduction to Agronomic Tools and Techniques: Understand the role of technology and tools in modern agronomy. Familiarize with concepts like precision agriculture and remote sensing.

CO-8 Crop Improvement: Basics of crop breeding and genetic enhancement for better yields and resilience.

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COURSE CONTENTS

Unit- I:

- Agronomy and its scope, seeds and sowing, tillage and tilth, crop density and geometry,

Unit- II:

- Crop nutrition, manures and fertilizers, nutrient use efficiency, water resources, soil- plant-water relationship, crop water requirement, water use efficiency, irrigation-scheduling criteria and methods, quality of irrigation water, logging.

Unit- III:

- Weeds- importance, classification, crop weed competition, concepts of weed management- principles and methods, herbicides- classification, selectivity and resistance, allelopathy.

Unit- IV:

- Growth and development of crops, factors affecting growth and development, plant ideotypes, crop rotation and its principles, adaptation and distribution of crops, crop management technologies in problematic areas, harvesting and threshing of crops.

Practical:

Identification of crops, seeds, fertilizers, pesticides and tillage implements, study of agro- climatic zones of India, Identification of weeds in crops, Methods of herbicide and fertilizer application, Study of yield contributing characters and yield estimation, Seed germination and viability test, Numerical exercises on fertilizer requirement, plant population, herbicides and water requirement, Use of tillage implements-reversible plough, one way plough, harrow, leveler, seed drill, Study of soil moisture measuring devices, Measurement of field capacity, bulk density and infiltration rate, Measurement of irrigation water.

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BAG-113: Introductory Biology

CO: COURSE OBJECTIVE

CO-1 Understand Core Biological Concepts: Explore the structure and function of cells, including prokaryotic and eukaryotic cells. Examine the molecular basis of life (e.g., DNA, RNA, proteins). Understand energy transformations in biological systems (e.g., photosynthesis and cellular respiration)

CO-2 Develop Knowledge of Organismal Biology: Learn about the diversity of life and classification systems (taxonomy). Study how organisms grow, reproduce, and interact with their environments. Understand the principles of evolution and natural selection.

CO-3 Explore Genetics and Heredity: Learn the basics of Mend Elian and molecular genetics. Understand patterns of inheritance and the role of genetic variation in populations.

CO-4. Examine Ecology and Environmental Biology: Study ecosystems, energy flow, and nutrient cycles. Explore the interdependence of organisms and their environments. Understand human impacts on ecosystems and biodiversity.

CO-5 Develop Scientific Inquiry Skills: Learn how to design experiments, analyze data, and interpret results. Apply the scientific method to biological questions. Enhance critical thinking and problem-solving skills.

CO-6 Prepare for Advanced Biological Studies: Build a foundation for specialized topics in biology, such as microbiology, genetics, and biochemistry. Develop an appreciation for the scope and relevance of biology in everyday life.

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COURSE CONTENTS

Unit- I:

- Introduction to the living world, diversity and characteristics of life, origin of life,

Unit- II:

- Evolution and Eugenics. Binomial nomenclature and classification Cell and celldivision.

Unit- III:

- Morphology of flowing plants. Seed and seed germination.

Unit- IV:

- Plant systematic- viz; Brassicaceae, Fabaceae and Poaceae. Role of animals inagriculture.

Practical:

Morphology of flowering plants – root, stem and leaf and their modifications. Inflorence, flower and fruits. Cell, tissues & cell division. Internal structure of root, stem and leaf. Study of specimens and slides. Description of plants - Brassicaceae, Fabaceae and Poaceae.

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BAG-115: Elementary Mathematics

CO: COURSE OBJECTIVES

CO-1 Develop Number Sense and Operations: To help students understand and apply basic arithmetic operations (addition, subtraction, multiplication, and division) with whole numbers, fractions, and decimals.

CO-2 Introduce Geometric Concepts: To enable students to identify and analyze basic geometric shapes, understand their properties, and explore concepts of symmetry, area, and perimeter.

CO-3 Understand Measurement: To teach students how to measure length, weight, volume, and time using both standard and non-standard units of measurement, fostering an understanding of units and conversions.

CO-4 Explore Data and Probability: To introduce students to data collection, organization, and representation using graphs (bar charts, pictograms, and line graphs), and basic concepts of probability.

CO-5 Introduce Problem-Solving Strategies: To develop students' ability to solve word problems by applying mathematical operations and logical reasoning to everyday situations.

CO-6 Enhance Mathematical Communication: To encourage students to articulate mathematical ideas clearly using correct terminology and notation, and explain their thinking through reasoning.

CO-7 Promote Critical Thinking: To strengthen students' ability to make logical connections between concepts, recognize patterns, and apply mathematical concepts to real-world contexts.

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COURSE CONTENTS

Unit- I:

- Straight lines : Distance formula, section formula (internal and external division), Change of axes (only origin changed), Equation of co-ordinate axes, Equation of linesparallel to axes, Slope-intercept form of equation of line, Slope-point form of equationof line, Two point form of equation of line, Intercept form of equation of line, Normalform of equation of line, General form of equation of line, Point of intersection of twost. lines, Angles between two st. lines, Parallel lines, Perpendicular lines, Angle of bisectors between two lines, Area of triangle and quadrilateral.

Unit- II:

- Circle: Equation of circle whose centre and radius is known, General equation of a circle, Equation of circle passing through three given points, Equation of circle whose diameters is line joining two points (x_1, y_1) & (x_2, y_2), Tangent and Normal to a given circle at given point (Simple problems), Condition of tangency of a line $y = mx + c$ to the given circle $x^2 + y^2 = a^2$.

Unit- III:

- Differential Calculus: Definition of function, limit and continuity, Simple problemson limit, Simple problems on continuity, Differentiation of x^n , e^x , sin x &cos x from first principle, Derivatives of sum, difference, product and quotient of two functions, Differentiation of functions of functions (Simple problem based on it), Logarithmic differentiation (Simple problem based on it), Differentiation by substitution method and simple problems based on it, Differentiation of Inverse Trigonometric functions. Maxima and Minima of the functions of the form y=f (x) (Simple problems based on it).

Unit- IV:

- Integral Calculus : Integration of simple functions, Integration of Product of two functions, Integration by substitution method, Definite Integral (simple problems based on it), Area under simple well-known curves (simple problems based on it).

Unit- V:

- Matrices and Determinants: Definition of Matrices, Addition, Subtraction, Multiplication, Transpose and Inverse up to 3rd order, Properties of determinants upto 3rd order and their evaluation.

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BAG-115 A: Fundamentals of Statistics

CO: COURSE OBJECTIVES

CO-1 Understand Key Statistical Concepts: Explain fundamental statistical concepts, including data types, measures of central tendency, and measures of dispersion.

CO-2 Data Collection and Organization: Apply methods for collecting, organizing, and summarizing data using appropriate statistical tools.

CO-3 Probability Basics: Understand and calculate probabilities to analyze random events and understand their role in statistical analysis.

CO-4 Inferential Statistics: Perform hypothesis testing, confidence interval estimation, and inferential techniques to draw conclusions from data.

CO-5 Data Visualization: Construct and interpret graphical representations of data, such as histograms, scatterplots, and boxplots.

CO-6 Statistical Software Utilization: Use statistical software or tools to analyze data effectively and interpret output.

CO-7 Real-World Application: Apply statistical methods to solve real-world problems in diverse fields, enhancing decision-making skills.

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COURSE CONTENTS

Unit-I

Introduction: Meaning of statistics, Nature of statistics, Importance of statistics, Relation with some allied subjects, Uses of statistics, Misuses of statistics, Types of data: Primary and Secondary data, Quantitative data and Qualitative data, Discrete data and continuous data, Time series , Spatial series data and cross-sectional data, ordinal data and nominal data, Illustration with examples.

Unit-II

Collection of data: Questionnaire and its basic characteristics, Definition of Schedule and pilot survey, Designing a questionnaire and schedule, concept of outliers, Presentation of data: Textual representation, Tabular representation, Diagrammatic representation (line diagram, Multiple axes diagram and multiple line diagram), Bar diagram (Horizontal and vertical bar diagrams, multiple and divided bar diagrams), Pie diagram.

Unit-III

Frequency distribution, Cumulative frequency distribution and their graphical representation (Column diagram, Step diagram, ogive, Histogram, frequency curve of different types, Stem and leaf diagram). Concept of Central Tendency (Mean, Mode and Median) and its measures with properties including $AM \geq GM \geq HM$.

Unit-IV

Measures of Dispersion: Range, Mean deviation, Standard deviation, Quartile deviation, Coefficient of variation, Quantile and Percentile with relation between different measures, Definition of Probability: Classical and Relative frequency approach to probability with limitations. Axiomatic Definition of Probability (Statement only) Theorem of Total Probability, Bonferroni's inequality, Boole's inequality.

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BAG-115 B: Statistical Thinking and Data Analysis

CO: COURSE OBJECTIVES

CO-1 Understand Fundamental Statistical Concepts: Develop a clear understanding of basic statistical terms, principles, and methodologies, including descriptive statistics, probability, and inferential techniques.

CO-2 Data Collection and Sampling: Learn appropriate methods for designing experiments, conducting surveys, and collecting data, while understanding the importance of sampling techniques and potential biases.

CO-3 Exploratory Data Analysis: Gain proficiency in visualizing and summarizing data using graphical and numerical methods to uncover underlying patterns, trends, and insights.

CO-4 Statistical Modeling and Inference: Apply statistical models to make inferences about populations from sample data, focusing on hypothesis testing, confidence intervals, and regression analysis.

CO-5 Integration of Computational Tools: Utilize statistical software and programming languages (e.g., R, Python, or Excel) to conduct data analysis efficiently and interpret outputs effectively.

CO-6 Decision-Making Under Uncertainty: Develop the ability to apply statistical reasoning to solve real-world problems and support decision-making in uncertain environments.

CO-7 Communicating Statistical Findings: Master the art of presenting data analysis results clearly and effectively to both technical and non-technical audiences, emphasizing evidence-based conclusions.

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COURSE CONTENTS

Unit I

Statistical Thinking, Examples of Statistical Thinking, Numerical Data, Summary Statistics, From Population to Sampled Data, Different Types of Biases, Introduction to Probability, Introduction to Statistical Inference

Unit II

Association and Dependence, Association and Causation, Conditional Probability and Bayes Rule, Simpsons Paradox, Confounding, Introduction to Linear Regression, Special Regression Models

Unit III

Exploratory Data Analysis and Visualization, Goals of statistical graphics and data visualization, Graphs of Data, Graphs of Fitted Models, Graphs to Check Fitted Models, What makes a good graph, Principles of graphics

Unit IV

Introduction to Bayesian Modeling, Bayesian inference: combining models and data in a forecasting problem, Bayesian hierarchical modeling for studying public opinion, Bayesian modeling for Big Data

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BAG-117: Agricultural Heritage

CO: COURSE OBJECTIVES

CO-1 Understand Historical Significance: Explore the historical development of agriculture and its impact on human civilization, from ancient practices to modern advancements.

CO-2 Recognize Traditional Knowledge: Identify and appreciate the importance of traditional agricultural practices and indigenous knowledge systems in sustaining ecosystems and enhancing crop diversity.

CO-3 Evaluate Cultural Contributions: Analyze the cultural, social, and economic contributions of agriculture in shaping societies across different regions and eras.

CO-4 Study Agricultural Evolution: Investigate the evolution of farming systems, tools, and techniques in response to changing environmental and social needs.

CO-5 Learn Sustainability Principles: Examine historical agricultural practices for their relevance to contemporary issues like sustainability, climate change, and food security.

CO-6 Preserve Biodiversity: Highlight the role of agricultural heritage in conserving biodiversity and promoting sustainable resource management.

CO-7 Promote Awareness and Application: Encourage the integration of agricultural heritage principles into modern farming to create a balance between tradition and innovation.

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COURSE CONTENTS

Unit- I:

- Introduction of Indian agricultural heritage; Ancient agricultural practices, Relevanceof heritage to present day agriculture.

Unit- II:

- Past and present status of agriculture and farmers in society; Journey of Indianagriculture and its development from past to modern era.

Unit- III:

- Plant production and protection through indigenous traditional knowledge; Cropvoyage in India and world; Agriculture scope.

Unit- IV:

- Importance of agriculture and agricultural resources available in India; Cropsignificance and classifications; National agriculture setup in India.

Unit- V:

- Current scenario of Indian agriculture; Indian agricultural concerns and futureprospects. Rural Sociology & Educational Psychology.

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BAG-119: Rural Sociology & Educational Psychology

CO: COURSE OBJECTIVES

CO-1 Understand Rural Society: To explore the structure, functions, and characteristics of rural communities and their role in society.

CO-2 Analyze Social Change: To examine the processes and patterns of social change and development in rural areas.

CO-3 Study Cultural Practices: To understand the cultural norms, values, traditions, and practices of rural societies.

CO-4 Assess Rural Problems: To identify and analyze the challenges faced by rural communities, such as poverty, illiteracy, and unemployment.

CO-5 Promote Rural Development: To understand the role of education, policy-making, and technology in enhancing rural life.

CO-6 Learn Research Techniques: To equip students with methodologies for conducting sociological research in rural settings.

CO-7 Foster Community Engagement: To prepare students to work effectively with rural populations and contribute to community development initiatives.

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COURSE CONTENTS

Unit- I:

- Sociology and Rural sociology: Definition and scope, its significance in agricultureextension, Social Ecology.

Unit- II:

- Rural society, Social Groups, Social Stratification, Culture concept, Social Institution,Social Change & Development.

Unit- III:

- Educational psychology: Meaning & its importance inagriculture extension. Behavior: Cognitive, affective, psychomotor domain, Personality, Learning, Motivation.

Unit- IV:

- Theories of Motivation, Intelligence.

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BAG-119 A: Science, Technology, and Society

CO: COURSE OBJECTIVES

CO-1 Understand Interconnections: Explain the interdependent relationship between science, technology, and society, and how they shape one another.

CO-2 Analyze Ethical Implications: Evaluate the ethical, environmental, and social impacts of scientific discoveries and technological advancements.

CO-3 Explore Historical Contexts: Examine the historical evolution of science and technology and its influence on societal development.

CO-4 Foster Critical Thinking: Develop critical thinking skills to assess the benefits, risks, and unintended consequences of technological innovation.

CO-5 Promote Responsible Innovation: Understand the role of individuals, organizations, and governments in fostering responsible science and technology practices for sustainable development.

CO-6 Recognize Global Perspectives: Explore the global dimensions of science and technology, considering issues such as equity, accessibility, and cultural diversity.

CO-7 Encourage Lifelong Learning: Cultivate a mindset for continuous inquiry into the advancements of science and technology and their potential to address societal challenges.

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COURSE CONTENTS

Unit I

Science as Culture, Methods of Science, Issues and Perspectives. Social Context of Production of Scientific Knowledge, Demarcation, Autonomy and Cognitive Authority of Science. Challenges: Cognitive, Legal, Ethical, Feminist and Ideological, Discussion and Forum.

Unit II

Science as Social Institution and Ethos of Science, Inequalities in Science, Critique of the Mertonian Paradigm, Knowledge Production: Social and Cultural Contexts, Discussion and Forum.

Unit III

Society and Culture, Resources and Legitimation of Knowledge, Social Legitimation, Meanings, Interests, Values and the Modern State, Discussion and Forum.

Unit IV

Perspectives on Science - Technology Relationship, Hierarchical, Symbiotic and Coalescing. Science and Technology, and their Human Roots, Philosophy of Science and Technology. Technology as Knowledge, Technological Shaping of Society and Social Shaping of Technology, Discussion and Forum.

Unit V

Emerging Technologies: Information and Communication Society - Implications for Work, Social Relations, Governance and Control. Biotechnology - Implications for the Meanings of Life and Life. Processes, Application in Agriculture, Healthcare and Environment Discussion and Forum.

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BAG-119 B: Women's and Gender Studies

CO: COURSE OBJECTIVES

CO-1 Understand Core Concepts and Theories: Develop an understanding of key concepts, theories, and frameworks in Women's and Gender Studies, including feminism, intersectionality, and social constructionism.

CO-2 Analyze Gender and Power Dynamics: Examine the ways gender, sexuality, race, class, and other social categories shape individual experiences and societal structures.

CO-3 Critique Social Inequalities: Critically analyze historical and contemporary systems of oppression and privilege, such as patriarchy, sexism, heteronormativity, and colonialism.

CO-4 Engage in Interdisciplinary Approaches: Explore how Women's and Gender Studies intersects with fields such as sociology, history, literature, political science, and cultural studies to provide a holistic view of gender-related issues.

CO-5 Promote Social Justice and Advocacy: Build skills in activism and advocacy by exploring strategies for promoting equity, inclusion, and social justice on both local and global scales.

CO-6 Evaluate Representations of Gender: Analyze how gender and sexuality are represented in media, literature, and cultural practices, and consider their implications for societal norms and behaviors.

CO-7 Apply Knowledge to Real-World Issues: Use the knowledge gained to critically engage with and address real-world issues related to gender, such as gender-based violence, reproductive rights, workplace inequality, and LGBTQ+ rights.

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COURSE CONTENTS

Unit I

Emergence of Women's Studies in India Establishment of Centre for Women's Studies under UGC guidelines Women's Studies in International Settings Growth and changing perspectives of Women's Studies and Research.

Unit II

Basic Concepts "Understanding Sex- Gender, Understanding Sexism and Androcentrism, Understanding Patriarchy and Theories of Patriarchy, Private - Public diohotorny Patriarchy practices in different institutions and Text Books.

Unit III

Representation of Women in Culture and Media. Women and Print Media. Women and Electronic Media ' Women and Films, Advertisements. Women and Mega Serials.

Unit IV

Women and Literature, Women's Writings in India, Women's Representation in Literary Texts: With special reference to Novels of Ashapurna Devi: Trilogy- 'Pratham Pratishruti',' Subarnalata' and'Bakulkatha'.

Unit V

Concept and definition of Social Work, Emergence of professional Social Work in India, Scope and concerns of Social Work practice, Role and Challenges of Social Workers in working with Women with disabilities.

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BAG-119 C: Geography of the Global Economy

CO: COURSE OBJECTIVES

CO-1 Understand the Spatial Dynamics of the Global Economy: Analyze the geographic distribution of economic activities and their interconnectedness at local, national, and global scales.

CO-2 Examine Global Trade Patterns: Explore the causes and consequences of international trade, including trade agreements, tariffs, and the role of global supply chains.

CO-3 Analyze Economic Inequality: Investigate the spatial dimensions of wealth and poverty, focusing on disparities between and within regions.

CO-4 Evaluate the Role of Globalization: Assess the impact of globalization on economic development, cultural exchanges, and the environment.

CO-5 Explore Industrial and Technological Change: Study the geographic implications of industrialization, deindustrialization, and the rise of digital economies.

CO-6 Investigate Environmental and Economic Interactions: Understand how economic activities influence and are influenced by environmental factors, including climate change, resource extraction, and sustainability practices.

CO-7 Develop Geographic Analytical Skills: Utilize tools such as GIS (Geographic Information Systems) and spatial data analysis to interpret and visualize economic patterns and trends.

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COURSE CONTENTS

Unit I

Basic concepts and trends, Overview: geographies of global change, The structure and organization of economies, Growth and development: concepts and measures, Mapping the world economy, Recent patterns and trends: a global perspective, Recent patterns and trends: a Canadian perspective countries trade.

Unit II

Emergence of a world economy and economic development, early commercial expansion, the colonial world economy, Development theories and pathways.

Unit III

Population and resources, Global population dynamics, Population and migration, Natural resources and primary commodities, Population & resources I: food and agriculture, Population & resources II: oil and minerals.

Unit IV

The spatial organization of the new world economy, the diffusion of the industrial revolution, the changing organization of industry: Fordism, The changing organization of industry: post-Fordism, On externalities, transactions and firm linkages, Agglomeration and new industrial spaces.

Unit V

The resource curse and Dutch disease, Global food systems, the global land rush, Tropical deforestation, Fair trade: principles and realities, Global trade institutions and agreements, Local-global geographies of the financial crisis, the economy-environment interface, Globalization and inequality

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BAG-121: Human Values and Ethics

CO: COURSE OBJECTIVES

CO-1 Understanding Ethical Foundations: To provide students with a comprehensive understanding of the fundamental concepts, principles, and theories of ethics and human values.

CO-2 Developing Critical Thinking: To enable students to critically analyze ethical dilemmas and challenges in personal, professional, and societal contexts.

CO-3 Fostering Moral Awareness: To cultivate a sense of moral responsibility by identifying and reflecting on the importance of values in decision-making and behavior.

CO-4 Promoting Integrity and Accountability: To emphasize the role of integrity, honesty, and accountability in personal and professional life.

CO-5 Encouraging Respect for Diversity: To teach students to appreciate and respect diverse perspectives, cultures, and values in a globalized society.

CO-6 Enhancing Ethical Decision-Making: To equip students with tools and frameworks to make ethical decisions and resolve conflicts effectively.

CO-7 Building Social Responsibility: To inspire students to contribute positively to society by addressing social, environmental, and global ethical challenges.

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COURSE CONTENTS

Unit- I:

- Values and Ethics-An Introduction, Goal and Mission of Life.

Unit- II:

- Vision of Life, Principles and Philosophy, Self Exploration.

Unit- III:

- Self Awareness, Self Satisfaction, Decision Making.

Unit- IV:

- Motivation, Sensitivity, Success, Selfless Service. Case

Unit- V:

- Study of Ethical Lives, Positive Spirit, Body, Mind and Soul, Attachment andDetachment, Spirituality Quotient, Examination.

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BAG-121 A: Global Climate Policy and Sustainability

CO: COURSE OBJECTIVES

CO-1 Understand the Science of Climate Change: Gain a comprehensive understanding of the scientific principles behind climate change, including its causes, impacts, and implications for natural and human systems.

CO-2 Analyze Global Climate Policies: Explore key international agreements and frameworks such as the Paris Agreement, Kyoto Protocol, and IPCC reports, and assess their role in addressing climate change.

CO-3 Evaluate Policy Approaches: Compare and contrast policy approaches at global, regional, and national levels, focusing on mitigation strategies, adaptation planning, and policy implementation challenges.

CO-4 Examine Sustainable Development Goals (SDGs): Investigate the interconnections between climate action and the SDGs, emphasizing the need for integrated strategies to achieve sustainability.

CO-5 Assess the Role of Stakeholders: Identify the roles of various stakeholders, including governments, businesses, non-governmental organizations, and civil society, in advancing climate policy and sustainability efforts.

CO-6 Develop Critical Thinking on Equity and Justice: Analyze issues of climate justice, equity, and inclusivity, focusing on how climate policies affect different communities, particularly vulnerable populations.

CO-7 Design Practical Solutions: Equip students with the tools and frameworks to design innovative and practical solutions for climate challenges, fostering sustainable practices in various sectors.

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COURSE CONTENTS

Unit I

Introduction to Climate Change and Sustainable Development: Principles and Approaches, Global Climate System, Climate Change: Causes and Consequences, Sustainable Development: Scope and Emerging Trends, Climate and Sustainable Development: An Interface.

Unit II

Climate Change: Challenges and Choices, Climate Change and Water, Climate Change: Forest and Biodiversity, Climate Change: Coastal Ecosystem, Climate Change: Agriculture and Food Security.

Unit III

Climate Change and Sustainable Development: Policies and Programmes, Sustainable Development Goals: An overview, Climate Change and Sustainable Development: National and State Policies, Achieving Sustainable Development Goals: Role of Various Stakeholders, Building Partnership for Climate Change and Sustainable Development.

Unit IV

Climate Change and Sustainable Development: Stories of Success, Cross Country Experiences, National Experiences, Regional Experiences, and Community led Experiences.

Unit V

Climate Change Policy, Climate change policy of countries, Uncertainty and climate change policy, Policy implications, Cost-benefit analysis in the context of climate change.

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BAG-121 B: Planetary Change and Human Health

CO: COURSE OBJECTIVES

CO-1 Understand the Relationship between Planetary Health and Human Health: Explore how changes in natural systems—such as climate change, biodiversity loss, and pollution—impact human health and well-being.

CO-2 Identify Key Drivers of Environmental Change: Examine the social, economic, and political factors driving planetary change, including industrialization, urbanization, and resource exploitation.

CO-3 Assess the Impacts of Climate Change on Health: Analyze the direct and indirect effects of climate change on human health, such as heat-related illnesses, vector-borne diseases, and food and water insecurity.

CO-4 Examine the Role of Biodiversity in Public Health: Investigate how the loss of biodiversity affects ecosystems and the services they provide, including implications for medicine, nutrition, and disease regulation.

CO-5 Develop an Understanding of Environmental Justice: Recognize how planetary change disproportionately affects vulnerable populations and contributes to health inequities worldwide.

CO-6 Evaluate Adaptation and Mitigation Strategies: Explore strategies to mitigate the adverse effects of planetary change on human health, including policy interventions, technological innovations, and community-based approaches.

CO-7 Promote Interdisciplinary Problem-Solving: Foster collaboration across disciplines to address the complex interconnections between environmental change and human health, integrating insights from public health, environmental science, and social sciences.

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COURSE CONTENTS

Unit I

Introduction to Planetary Health, Current changes in the Earth's natural systems, the paradox of improved health and natural systems deterioration. Mapping the environmental determinants of human health.

Unit II

Main risks of environmental change for human health, Introduction to writing an essay on planetary health, Environmental impacts of health systems, Challenges for Planetary Health, A planetary health approach to environmental health risks.

Unit III

Food systems: a planetary health approach, Food security and nutrition, Climate change and health, Climate change and urban environment, COVID-19, a disease of the Anthropocene, Atmospheric and chemical pollution.

Unit IV

Governance for a sustainable society, Sustainability, Sustainable development goals, Co-creation Activity for the Planetary Heath course, Extreme weather events, Influence of global change in infectious diseases transmitted by water, zoonosis, and vectors.

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BAG-121 C: Tools for Sustainable Design

CO: COURSE OBJECTIVES

CO-1 Introduce Sustainable Design Concepts: Provide students with a foundational understanding of sustainability principles and how they apply to design across various disciplines (e.g., architecture, industrial design, product design, urban planning).

CO-2 Explore Tools for Sustainable Design: Familiarize students with a variety of design tools, software, and techniques that support sustainable design practices, including energy modeling, lifecycle assessment (LCA), material selection tools, and environmental impact calculators.

CO-3 Promote Resource Efficiency: Teach students how to design for resource conservation, including minimizing waste, optimizing energy use, and selecting renewable and recyclable materials.

CO-4 Assess Environmental Impacts: Enable students to evaluate the environmental impacts of design decisions through tools like LCA, carbon footprint analysis, and other environmental metrics.

CO-5 Integrate Social and Ethical Considerations: Encourage students to consider social sustainability in design, including fair labor practices, inclusivity, and the well-being of communities affected by design choices.

CO-6 Foster Innovation and Creativity in Sustainable Design: Develop students' ability to innovate sustainable solutions that address environmental, economic, and social challenges through design thinking and problem-solving techniques.

CO-7 Enable Real-World Application: Equip students with the practical skills needed to apply sustainable design tools and methods to real-world projects, from product development to building design and urban planning.

CO-8 Encourage Critical Thinking and Reflection: Help students critically analyze design decisions and their long-term impacts on the environment and society, fostering a mindset of continuous improvement and adaptability in sustainable design practices.

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BAG-121 C: Tools for Sustainable Design

CO: COURSE OBJECTIVES

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COURSE CONTENTS

Unit I

Sustainable Design Sustainability and related terms, Design process and sustainable development, approaches to sustainability, sustainable design principles, application of sustainable design principles in product design, tools for sustainable design.

Unit II

Developments in design methods History of design methods, Introduction to various design methods by: Alexander, Banathy, Nigel Cross, IDEO, Double Diamond by UK Design Council. Introduction to social innovation, Product Service Systems, and Lifecycle analysis.

Unit III

Model of the Design Innovation Process. Seven Modes of the Design Innovation Process: (1) Sense Intent, (2) Know Context, (3) Know People, (4) Frame Insights, (5) Explore Concepts, (6) Frame Solutions, (7) Realize Offerings.

Unit IV

Interaction design process and methodology for designing interactive solutions. Interaction models. Paradigms for interaction. Services and events: products to be used in groups, products used in public places, products for future use, design of tangible, gestural, multimodal, and expressive interfaces, products that enrich user experience.

Unit V

Inter-disciplinary approach drawing upon human factors, cognitive sciences, human psychology, product design, visual communication, and computer science. Exploration of alternatives and pushing the envelope of what is known to improve user experience and make the design more inclusive.

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BAG-123: NSS

CO: COURSE OBJECTIVES

CO-1 Develop Social Responsibility: NSS aims to build a sense of responsibility among students toward society by involving them in activities that directly impact the community's welfare.

CO-2 Promote Volunteerism: The course encourages students to actively participate in community service projects such as literacy campaigns, environmental protection, health programs, and rural development.

CO-3 Foster National Integration: NSS helps students understand the importance of national unity, integrity, and communal harmony by engaging them in projects across diverse communities and regions.

CO-4 Enhance Personality Development: By participating in NSS activities, students develop qualities like leadership, teamwork, discipline, and communication, which contribute to their overall personal growth.

CO-5 Create Awareness of Social Issues: The course aims to raise awareness about various social issues, such as poverty, health, education, and gender equality, helping students understand the challenges faced by marginalized communities.

CO-6 Strengthen the Link between Campus and Community: NSS provides an avenue for students to connect with the broader community beyond their academic environment, helping bridge the gap between theory and real-life issues.

CO-7 Promote Sustainable Development: Through service-oriented activities, NSS helps in promoting the values of sustainable development by involving students in eco-friendly and socially beneficial initiatives.

CO-8 Encourage Civic Participation: NSS nurtures the habit of active participation in civic responsibilities, fostering the spirit of democracy and participation in local governance.

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COURSE CONTENTS

Course Title: National Service Scheme I

Unit- I:

- Introduction and basic components of NSS: Orientation: history, objectives, principles, symbol, badge; regular programmes under NSS, organizational structure ofNSS, code of conduct for NSS volunteers, points to be considered by NSS volunteers awareness about health

Unit- II:

- NSS programmes and activities: Concept of regular activities, special camping, day camps, basis of adoption of village/slums, conducting survey, analysing guiding financial patterns of scheme, youth programme/ schemes of GOI, coordination with different agencies and maintenance of diary

Unit- III:

- Understanding youth: Definition, profile, categories, issues and challenges of youth; and opportunities for youth who is agent of the social change

Community mobilisation: Mapping of community stakeholders, designing the message as perproblems and their culture; identifying methods of mobilisation involving youth-adult partnership

Unit- IV:

- Social harmony and national integration: Indian history and culture, role of youth in nation building, conflict resolution and peace- building

Volunteerism and shramdan: Indian tradition of volunteerism, its need, importance, motivation and constraints; shramdan as part of volunteerism

Unit- V:

- Citizenship, constitution and human rights: Basic features of constitution of India, fundamental rights and duties, human rights, consumer awareness and rights and rights to information. Family and society: Concept of family, community (PRIs and other community based organisations) and society.

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Physical Education and Yoga Practices

1. Teaching of skills of Football – demonstration, practice of the skills, correction,involvement in game situation (For girls teaching of Tennikoit)
2. Teaching of different skills of Football – demonstration, practice of the skills, correction,involvement in game situation (For girls teaching of Tennikoit)
3. Teaching of advance skills of Football – involvement of all the skills in game situationwith teaching of rules of the game
4. Teaching of skills of Basketball – demonstration, practice of the skills, correction ofskills, involvement in game situation
5. Teaching of skills of Basketball – demonstration, practice of the skills, involvement ingame situation
6. Teaching of skills of Basketball – involvement of all the skills in game situation withteaching of rule of the game
7. Teaching of skills of Kabaddi – demonstration, practice of the skills, correction of skills,involvement in game situation
8. Teaching of skills of Kabaddi – demonstration, practice of the skills, correction of skills,involvement in game situation
9. Teaching of advance skills of Kabaddi – involvement of all the skills in game situationwith teaching of rule of the game
10. Teaching of skills of Ball Badminton – demonstration, practice of the skills, correction ofskills, involvement in game situation
11. Teaching of skills of Ball Badminton – involvement of all the skills in game situationwith teaching of rule of the game
12. Teaching of some of Asanas – demonstration, practice, correction and practice
13. Teaching of some more of Asanas – demonstration, practice, correction and practice
14. Teaching of skills of Table Tennis – demonstration, practice of skills, correction andpractice and involvement in game situation
15. Teaching of skills of Table Tennis – demonstration, practice of skills, correction andpractice and involvement in game situation
16. Teaching of skills of Table Tennis – involvement of all the skills in game situation withteaching of rule of the game
17. Teaching – Meaning, Scope and importance of Physical Education
18. Teaching – Definition, Type of Tournaments
19. Teaching – Physical Fitness and Health Education
20. Construction and laying out of the track and field (*The girls will have Tennikoit andThrow Ball).

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BAG-123 A: NCC

CO: COURSE OBJECTIVES

CO-1 Develop Leadership Skills: NCC aims to cultivate leadership qualities and team-building skills among cadets by involving them in various activities that require decision-making, responsibility, and management.

CO-2 Promote Physical Fitness: Physical training, including drills, marches, and physical fitness routines, is a central component of the NCC course, aiming to keep cadets healthy, fit, and active.

CO-3 Foster Discipline and Punctuality: The NCC course instills a sense of discipline, punctuality, and respect for rules and regulations among cadets. This is achieved through regular training and adherence to strict schedules.

CO-4 Cultivate Social Responsibility: NCC encourages cadets to become responsible citizens by promoting social service, environmental awareness, and community involvement.

CO-5 Develop a Sense of Patriotism: Through exposure to national defense services, cadets are encouraged to develop a sense of patriotism, pride, and respect for the country.

CO-6 Enhance Outdoor and Adventure Skills: The course includes various outdoor activities, such as trekking, camping, and adventure sports, that develop survival skills, teamwork, and resilience.

CO-7 Provide Exposure to Military and Para-military Training: The NCC offers cadets exposure to basic military training, discipline, and knowledge of armed forces activities, which can inspire interest in defense careers.

CO-8 Promote National Integration: NCC aims to foster unity and national integration by bringing together young people from diverse backgrounds, regions, and communities.

CO-9 Build Confidence and Self-reliance: Through various training modules and field exercises, cadets gain confidence in their abilities and develop problem-solving skills, helping them to become self-reliant individuals.

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COURSE CONTENTS

Unit: 1 Personality Development
(i) Thinking- Meaning and Concept of thinking, Reasoning, Process of thinking. (ii) Critical Thinking- Meaning & concept of critical thinking, Features of critical thinking, Process of critical thinking. (iii) Creative thinking- Meaning & concept of creative thinking, Features of creative thinking, Process of creative thinking, levels of Creativity, Characteristics of creative person.

Unit: 2 Leadership Development
(i) Leadership capsule. (ii) Important Leadership traits, Indicators of leadership and evaluation. (iii) Motivation- Meaning & concept, Types of motivation. Factors affecting motivation. (iv) Ethics and Honor codes.

Unit: 3 Social Service and Community Development
(i) Protection of Children & Women Safety. (ii) Road/Rail Safety. (iii) New Government Initiatives. (iv) Cyber and mobile Security Awareness.

Unit: 4 Group Discussion
Coping with Stress & Emotions, time Management, Social Skills, Team Work, Career Counselling, SSB Procedure & Interview Skills, Public Speaking.

Unit: 5 CAMP (Practical)
Ceremonial and Weapon Training, Swachh Bharat Abhiyan.

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BAG-123 B: Physical Education & Yoga Practices

CO: COURSE OBJECTIVES

CO-1 Enhance Physical Fitness: To improve students' overall physical fitness, including strength, flexibility, endurance, balance, and coordination, through a variety of physical education and yoga activities.

CO-2 Promote Health and Well-being: To encourage lifelong health habits by educating students on the importance of regular physical activity, proper nutrition, mental well-being, and stress management through yoga.

CO-3 Develop Yoga Skills and Techniques: To teach students various yoga postures (asanas), breathing techniques (pranayama), meditation practices, and relaxation techniques to enhance physical and mental well-being.

CO-4 Foster Mind-Body Connection: To cultivate awareness of the connection between body and mind, enabling students to understand how physical activity and yoga can influence emotional and mental health.

CO-5 Incorporate Yoga Philosophy: To introduce students to the fundamental philosophy behind yoga, including concepts like mindfulness, self-discipline, non-violence (ahimsa), and ethical conduct, which promote personal growth.

CO-6 Develop Personal Fitness Goals: To assist students in setting and achieving individualized fitness goals through both physical education and yoga practices, encouraging self-motivation and goal setting.

CO-7 Promote Lifelong Activity: To instill an understanding of how regular participation in physical education and yoga can lead to a healthier lifestyle, reducing the risk of chronic diseases and improving long-term health.

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COURSE CONTENTS

Unit: 1 Physical Education

Meaning, Definition, Aim and Objective, Misconception about Physical Education, Need, Importance and Scope of Physical Education in the Modern Society, Physical Education Relationship with General Education, Physical Education in India before Independence. Physical Education in India after Independence.

Unit: 2 Concept of Fitness and Wellness

Meaning, Definition and Importance of Fitness and Wellness, Components of Fitness, Factor Affecting Fitness and Wellness.

Weight Management, Meaning and Definition of Obesity, Causes of Obesity, Management of Obesity, Health problems due to Obesity.

Lifestyle: Meaning, Definition, Importance of Lifestyle, Factor affecting Lifestyle, Role of Physical activity in the maintains of Healthy Lifestyle.

Unit: 3 Yoga and Meditation

Historical aspect of yoga, Definition, types scopes & importance of yoga, Yoga relation with mental health and value education, Yoga relation with Physical Education and sports, Definition of Asana, differences between asana and physical exercise, Definition and classification of pranayama, Difference between pranayama and deep breathing, Practical: Asana, Suraya-Namaskar, Bhujang Asana, Naukasana, Halasana, Vajrasan, Padmasana, Shavasana, Makrasana, Dhanurasana, Tad Asana. Pranayam: Anulom, Vilom.

Unit: 4 Traditional Games of India

Meaning, Types of Traditional Games Gilli- Danda, Kanche, Stapu, Gutte, etc

Importance/ Benefits of Traditional Games, How to Design Traditional Games.

Recreation in Physical Education, Meaning, Definition of Recreation, Scope and Importance of Recreation, General Principles of Recreation, Types of Recreational Activities, Aerobics and Zumba. (Fir India Movement).

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BAG-123 C: Water, Sanitation and Hygiene

CO: COURSE OBJECTIVES

CO-1 Understand the Importance of WASH: Explore the impact of poor WASH on disease transmission, health, and socio-economic development.

CO-2 Study Water Management Systems: Understand water quality standards and the treatment of water for safe consumption.

CO-3 Examine Sanitation Systems: Understand different sanitation systems, such as sewage treatment, waste disposal, and the management of human excreta.

CO-4 Promote Hygiene Practices: Learn about the significance of hygiene behaviors, including hand washing, safe food handling, and personal cleanliness.

CO-5 Investigate Environmental and Social Impacts: Explore the environmental effects of inadequate sanitation and water management (e.g., pollution, contamination).

CO-6 Understand WASH Policy and Governance: Study the roles of various stakeholders (government, NGOs, local communities) in the development and implementation of WASH projects.

CO-7 Develop Practical Skills in WASH Implementation: Gain hands-on experience in designing, implementing, and evaluating WASH programs.

CO-8 Promote Sustainability: Investigate methods for ensuring the long-term sustainability of WASH projects through community engagement and capacity building.

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COURSE CONTENTS

Unit I

Introduction to Sanitation and Hygiene for Health, Definitions and Concepts, Global, national and regional perspective, Relation between health, hygiene & sanitation, Relevance & importance of health, hygiene in the contemporary times.

Unit II

Occupational Health and Hygiene, Concept, definition and its role, Link between occupational hygiene, risk assessment & risk management. Sanitation problems of the workplace: industries, academic institutions, corporate, hospitals, Public spaces etc.

Unit III

Health Hygiene Promotion & Education, Hygiene Behavior promotion & education- concept and its importance, Hygiene promotion & education in children & adolescence, Government initiatives & policies in rural & urban area.

Unit IV

Health, hygiene practices in India and in North East India, Present scenario of health hygiene in India, Reproductive & sexual health of the women, Indigenous hygiene & sanitation practices, Cultural beliefs of the people of NE India in relation to health & hygiene- role & impacts.

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B.Sc. (Ag.) II Semester

BAG-102: Fundamentals of Genetics

CO: COURSE OBJECTIVE

CO-1 Introduction to Genetic Principles: Understand the foundational principles of inheritance, including Mendelian and non-Mendelian genetics.

CO-2 Chromosomal Basis of Inheritance: Explore the structure and function of chromosomes and their role in heredity.

CO-3 Molecular Genetics: Analyze the molecular structure of DNA and RNA and their roles in replication, transcription, and translation.

CO-4 Gene Expression and Regulation: Understand how genes are regulated and expressed in prokaryotic and eukaryotic systems.

CO-5 Mutations and Genetic Variation: Study types of mutations, their mechanisms, and their effects on organisms.

CO-6 Population Genetics: Learn about genetic variation within populations and the principles of Hardy-Weinberg equilibrium.

CO-7 Genetic Tools and Technologies: Explore modern genetic tools such as CRISPR, PCR, and gene sequencing techniques.

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Course Content

Unit- I:

- Pre and Post Mendelian concepts of heredity, Mendelian principles of heredity. Architecture of chromosome; chromonemata, chromosome matrix, chromomeres, centromere, secondary constriction and telomere; special types of chromosomes.

Unit- II:

- Chromosomal theory of inheritance- cell cycle and cell division- mitosis and meiosis. Probability and Chi-square. Dominance relationships, Epistatic interactions with example.

Unit- III:

- Multiple alleles, pleiotropism and pseudoalleles, Sex determination and sex linkage, sex limited and sex influenced traits, Blood group genetics, Linkage and its estimation, crossing over mechanisms, chromosome mapping.

Unit- IV:

- Structural and numerical variations in chromosome andtheir implications, Use ofhaploids, dihaploids and doubled haploids in Genetics. Mutation, classification, Methods of inducing mutations & CIB technique, mutagenic agents and induction of mutation. Qualitative & Quantitative traits, Polygenes and continuous variations, multiple factor hypothesis, Cytoplasmic inheritance. Genetic disorders.

Unit- V:

- Nature, structure & replication of genetic material. Protein synthesis, Transcription and translational mechanism of genetic material, Gene concept: Gene structure, function and regulation, Lac and Trp operons.

Practical:

Study of microscope. Study of cell structure. Mitosis and Meiosis cell division. Experiments on monohybrid, dihybrid, trihybrid, test cross and back cross, Experiments on epistaticinteractions including test cross and back cross, Practice on mitotic and meiotic cell division, Experiments on probability and Chi-square test. Determination of linkage and cross-over analysis (through two point test cross and three point test cross data). Study on sex linked inheritance in Drosophila. Study of models on DNA and RNA structures.

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BAG-104: Agricultural Microbiology

CO: COURSE OBJECTIVE

CO-1 Soil Microbiology: The study of microorganisms in the soil, their role in nutrient cycling, and their impact on soil health and fertility.

CO-2 Plant-Microbe Interactions: The relationship between microorganisms and plants, including beneficial interactions (such as nitrogen-fixing bacteria) and harmful ones (such as plant pathogens).

CO-3 Microbial Ecology: The diversity and ecology of microbes in agricultural environments, and how they interact with each other and the plants they affect.

CO-4 Biological Control of Pests and Diseases: The use of microorganisms to control plant diseases and pests in an environmentally friendly way.

CO-5 Microbial Biotechnologies in Agriculture: How biotechnology and genetic engineering are used to enhance beneficial microbial functions in agriculture (e.g., bio fertilizers, bio pesticides).

CO-6 Waste Management in Agriculture: The role of microorganisms in decomposing organic waste and producing compost or bioenergy.

CO-7 Food Safety and Microbes: The study of microorganisms involved in food production, processing, and preservation, including beneficial probiotics and harmful pathogens.

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Course Contents

Unit- I:

- Introduction. Microbial world: Prokaryotic and eukaryotic microbes. Bacteria: cell structure, chemoautotrophy, photo autotrophy, growth. Bacterial genetics:

Unit- II:

- Genetic recombination- transformation, conjugation and transduction, plasmids,transposon.

Unit- III:

- Role of microbes in soil fertility and crop production: Carbon, Nitrogen, Phosphorusand Sulphur cycles.

Unit- IV:

- Biological nitrogen fixation- symbiotic, associative and asymbiotic.Azolla, blue greenalgae and mycorrhiza. Rhizosphere and phyllosphere.

Unit- V:

- Microbes in human welfare: silage production, biofertilizers, biopesticides, biofuelproduction and biodegradation of agro-waste.

Practical:

Introduction to microbiology laboratory and its equipments; Microscope- parts, principles of microscopy, resolving power and numerical aperture. Methods of sterilization. Nutritional media and their preparations. Enumeration of microbial population in soil- bacteria, fungi, actinomycetes. Methods of isolation and purification of microbial cultures. Isolation of Rhizobium from legume root nodule. Isolation of Azotobacterfrom soil. Isolation of Azospirillumfrom roots. Isolation of BGA. Staining and microscopic examination of microbes.

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BAG-106: Soil and Water Conservation Engineering

CO: COURSE OBJECTIVE

CO-1 Understand the principles of soil and water conservation: Learn about the erosion process, types of erosion, and factors affecting soil erosion. Study the impact of erosion on agriculture, environment, and infrastructure.

CO-2 Examine soil-water relationships: Understand soil-water retention and its effect on soil fertility and crop production. Study infiltration, percolation, and water holding capacity of soils.

CO-3 Learn about soil erosion control techniques: Study various erosion control methods like contour plowing, terracing, and grass waterways. Understand vegetative, structural, and mechanical erosion control measures.

CO-4 Explore water conservation strategies: Understand the techniques used to conserve water in agricultural systems, such as rainwater harvesting, water storage, and irrigation efficiency. Learn about water management practices like mulching and soil moisture management.

CO-5 Assess land and water resources: Understand methods for evaluating soil erosion risk, water availability, and land suitability for conservation practices. Learn to design conservation measures based on site-specific conditions.

CO-6 Introduce water harvesting techniques: Study methods of water harvesting in dry land farming and its relevance to sustainable agriculture.

CO-7 Foster knowledge of sustainable agricultural practices: Understand the relationship between conservation techniques and sustainable farming systems. Learn about agroforestry, cover crops, and crop rotation as part of soil and water conservation.

CO-8 Analyze the socio-economic aspects: Understand the socio-economic importance of soil and water conservation in rural development. Study the policies and practices related to water conservation at regional and global levels.

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Course Content

Unit- I:

- Introduction to Soil and Water Conservation, causes of soil erosion. Definition and agents of soil erosion, water erosion.

Unit- II:

- Forms of water erosion. Gully classification and control measures. Soil loss estimation by universal Loss.

Unit- III:

- Soil Equation. Soil loss measurement techniques. Principles of erosion control: Introduction to contouring, strip cropping. Contour bund.

Unit- IV:

- Graded bund and bench terracing. Grassed water ways and their design. Water harvesting and its techniques.

Unit- V:

- Wind erosion: mechanics of wind erosion, types of soil movement. Principles of wind erosion control and its control measures.

Practical:

General status of soil conservation in India. Calculation of erosion index. Estimation of soil loss. Measurement of soil loss. Preparation of contour maps. Design of grassed water ways. Design of contour bunds. Design of graded bunds. Design of bench terracing system. Problem on wind erosion.

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BAG-108: Fundamentals of Crop Physiology

CO: COURSE OBJECTIVE

CO-1 Photosynthesis and Respiration: Understanding how plants convert light into energy, the process of respiration, and how these processes affect crop growth and yield.

CO-2 Water Relations and Stress Physiology: Exploring how water is absorbed, transported, and utilized in crops, as well as the effects of water stress on plant health and productivity.

CO-3 Nutrient Uptake and Metabolism: Examining how crops absorb nutrients from the soil, how these nutrients are utilized in plant growth, and the physiological effects of nutrient deficiencies.

CO-4 Reproductive Physiology: Studying the processes of flowering, pollination, fertilization, and seed development, which are crucial for crop production.

CO-5 Environmental Interactions: Investigating how factors like light, temperature, humidity, and soil conditions affect crop physiology and how plants adapt to different environments.

CO-6 Growth Regulators and Hormones: Analyzing the role of plant hormones in regulating growth, development, and responses to environmental stimuli.

CO-7 Crop Yield and Improvement: Understanding the physiological basis of crop yield, including factors that influence productivity, and how crop physiology can inform breeding and management practices to improve yields.

CO-8 Stress Physiology: Investigating how crops respond to abiotic and biotic stresses, including drought, salinity, pests, and diseases, and how these responses impact crop productivity.

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Course Content

Unit- I:

- Introduction to crop physiology and its importance in Agriculture; Plant cell: an Overview; Diffusion and osmosis; Absorption of water, transpiration and Stomatal Physiology; Mineral nutrition of Plants:

Unit- II:

- Functions and deficiency symptoms of nutrients, nutrient uptake mechanisms; Photosynthesis: Light and Dark reactions, C3, C4 and CAM plants;

Unit- III:

- Respiration: Glycolysis, TCA cycle and electron transport chain; Fat Metabolism: Fatty acid synthesis and Breakdown; Plant growth regulators:

Unit- IV:

- Physiological roles and agricultural uses, Physiological aspects of growth and development of major crops:

Unit- V:

- Growth analysis, Role of Physiological growth parameters in crop productivity.

Practical:

Study of plant cells, structure and distribution of stomata, imbibitions, osmosis, plasmolysis, measurement of root pressure, rate of transpiration, Separation of photosynthetic pigments through paper chromatography, Rate of transpiration, photosynthesis, respiration, tissue testfor mineral nutrients, estimation of relative water content, Measurement of photosynthetic CO2 assimilation by Infra Red Gas Analyser (IRGA).

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BAG-110: Fundamentals of Agricultural Economics

CO: COURSE OBJECTIVE

CO-1 Understanding Economic Principles: Introducing basic concepts in economics, such as supply and demand, market equilibrium, and price mechanisms. Understanding the role of agriculture in the broader economy and its relationship with sectors like manufacturing, services, and trade.

CO-2 Analyzing Agricultural Markets: Understanding how agricultural markets function, including commodity markets (e.g., grains, livestock).Exploring the factors that affect the supply and demand of agricultural products. Studying market structures like perfect competition, monopoly, and oligopoly within agriculture.

CO-3 Evaluating Farm Production and Cost Structures: Analyzing farm production functions, and the relationship between inputs (land, labor, capital) and outputs (crops, livestock).Understanding cost structures in farming, including fixed and variable costs, total costs, and profitability.

CO-4 Examining Agricultural Policy and Government Intervention: Studying government policies in agriculture such as subsidies, tariffs, and price supports. Understanding the impact of trade policies and international agricultural markets. Analyzing the role of public institutions like agricultural extension services and rural development programs.

CO-5 Agricultural Risk and Uncertainty: Exploring sources of risk in agriculture (e.g., climate, pest outbreaks, and market fluctuations) and how farmers manage these risks. Understanding insurance, futures markets, and diversification strategies.

CO-6 Farm Management and Decision-Making: Teaching techniques for optimizing resource allocation, production decisions, and financial management on farms. Understanding decision-making tools like budgeting, break-even analysis, and financial forecasting.

CO-7 Sustainability and Agricultural: Economics exploring the economic aspects of sustainable farming practices and natural resource management. Studying the economics of environmental concerns like soil conservation, water use, and climate change.

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Course Content

Unit- I:

- Economics: Meaning, scope and subject matter, definitions, activities, approaches to economic analysis; micro and macro economics, positive and normative analysis. Nature of economic theory; rationality assumption, concept of equilibrium, economic laws as generalization of human behavior

Unit- II:

- Basic concepts: Goods and services, desire, want, demand, utility, cost and price, wealth, capital, income and welfare. Agricultural economics: meaning, definition, characteristics of agriculture, importance and its role in economic development. Agricultural planning and development in the country. Demand: meaning, law of demand, schedule and demand curve, determinants, utility theory; law of diminishing marginal utility, equi-marginal utility principle. Consumer's equilibrium and derivation of demand curve, concept of consumer surplus. Elasticity of demand: concept and measurement of price elasticity, income elasticity and cross elasticity. Production: process, creation of utility, factors of production, input output relationship.

Unit- III:

- Laws of returns: Law of variable proportions and law of returns to scale. Cost: concepts, short run and long run cost curves. Supply: Stock v/s supply, law of supply, schedule, supply curve, determinants of supply, elasticity of supply. Market structure: meaning and types of market, basic features of perfectly competitive and imperfect markets. Price determination under perfect competition; short run and long run equilibrium of firm and industry, shut down and break even points. Distribution theory: meaning, factor market and pricing of factors of production. Concepts of rent, wage, interest and profit.

Unit- IV:

- National income: Meaning and importance, circular flow, concepts of national incomeaccounting and approaches to measurement, difficulties in measurement. Population: Importance, Malthusian and Optimum population theories, natural and socio- economic determinants, current policies and programmes on population control. Money: Barter system of exchange and its problems, evolution, meaning and functions of money, classification of money, supply, general price index, inflation anddeflation.

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Unit- V:

- Banking: Role in modern economy, types of banks, functions of commercial and central bank, credit creation policy. Agricultural and public finance: meaning, micro v/s macro finance, need for agricultural finance, public revenue and public expenditure. Tax: meaning, direct and indirect taxes, agricultural taxation, VAT. Economic systems: Concepts of economy and its functions, important features of capitalistic, socialistic and mixed economies, elements of economic planning.

BAG-112: Fundamentals of Plant Pathology

CO: COURSE OBJECTIVE

CO-1 Understanding the Principles of Plant Pathology: Introduce the basic concepts of plant pathology, including disease causation, host-pathogen interactions, and disease development.

CO-2 Identification of Pathogens: Study different types of plant pathogens such as fungi, bacteria, viruses, nematodes, and phytoplasmas. Learn techniques for identifying these pathogens and understanding their life cycles.

CO-3 Mechanisms of Disease Development: Explore the process of infection, how pathogens attack plants, and the factors that influence disease progression.

CO-4 Symptoms and Diagnosis of Plant Diseases: Learn to recognize and diagnose various symptoms of plant diseases, such as lesions, wilting, chlorosis, and necrosis.

CO-5 Epidemiology of Plant Diseases: Study the factors that influence the spread of diseases, such as environmental conditions, crop rotation, and human activities.

CO-6 Plant Disease Management: Examine different methods of controlling plant diseases, including chemical, biological, cultural, and genetic approaches.

CO-7 Impact of Plant Diseases: Understand the economic and ecological impact of plant diseases on agriculture, forestry, and natural ecosystems.

CO-8 Research and Advances in Plant Pathology: Discuss the latest developments in the field, including new technologies for pathogen detection and disease management strategies.

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Course Contents

Unit- I:

- Introduction: Importance of plant diseases, scope and objectives of Plant Pathology. History of Plant Pathology with special reference to Indian work. Terms and concepts in Plant Pathology. Pathogenesis. Causes / factors affecting disease development: disease triangle and tetrahedron and classification of plant diseases. Important plant pathogenic organisms, different groups: fungi, bacteria, fastidious vesicular bacteria, phytoplasmas, spiroplasmas, viruses, viroids, algae, protozoa, phanerogamic parasites and nematodes with examples of diseases caused by them. Diseases and symptoms due to abiotic causes.

Unit- II:

- Fungi: general characters, definition of fungus, somatic structures, types of fungal thalli, fungal tissues, modifications of thallus, reproduction (asexual and sexual). Nomenclature, Binomial system of nomenclature, rules of nomenclature,classification of fungi. Key to divisions, sub-divisions, orders and classes.

Unit- III:

- Bacteria and mollicutes: general morphological characters. Basic methods of classification and reproduction. Viruses: nature, structure, replication andtransmission. Study of phanerogamic plant parasites.

Unit- IV:

- Nematodes: General morphology and reproduction, classification, symptoms and nature of damage caused by plant nematodes (Heterodera, Meloidogyne, Anguina, Radopholusetc.) Growth and reproduction of plant pathogens. Liberation / dispersal and survival of plant pathogens. Types of parasitism and variability in plant pathogens. Pathogenesis. Role of enzymes, toxins and growth regulators in disease development. Defense mechanism in plants.

Unit- V:

- Epidemiology: Factors affecting disease development. Principles and methods ofplant disease management. Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics.

Practical:

Acquaintance with various laboratory equipments and microscopy. Collection and preservation of disease specimen. Preparation of media, isolation and Koch's postulates .General study of different structures of fungi. Study of symptoms of various plant diseases. Study of representative fungal genera. Staining and identification of plant pathogenic bacteria. Transmission of plant viruses. Study of phanerogamic plant parasites.

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Study of morphological features and identification of plant parasitic nematodes. Sampling and extraction of nematodes from soil and plant material, preparation of nematode mounting. Study of fungicides and their formulations. Methods of pesticide application and their safe use. Calculation of fungicide sprays concentrations.

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BAG-114: Fundamentals of Entomology

CO: COURSE OBJECTIVES

CO-1 Understand the Basic Concepts of Entomology: Gain knowledge of the fundamental principles of entomology, including the role of insects in ecosystems, human society, and the environment.

CO-2 Identify and Classify Insect Species: Develop the ability to identify, classify, and distinguish between major insect orders and families, including understanding their morphological and anatomical features.

CO-3 Study Insect Physiology: Learn about the physiological processes of insects, including digestion, respiration, excretion, reproduction, and nervous systems.

CO-4 Understand Insect Behavior: Investigate the behavior of insects, including communication, mating, social structures (such as in ants or bees), and response to environmental stimuli.

CO-5 Explore Insect Ecology: Understand the ecological roles of insects, including their impact on pollination, decomposition, pest control, and as vectors of diseases.

CO-6 Investigate Insect Evolution and Development: Examine the evolutionary history of insects and their development from egg to adult, including metamorphosis and adaptations to various environments.

CO-7 Learn the Role of Insects in Agriculture and Medicine: Understand the economic importance of insects, both beneficial (e.g., pollinators) and harmful (e.g., agricultural pests, disease vectors), and their management in pest control and medical contexts.

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Course Contents

Unit- I:

- History of Entomology in India. Major points related to dominance of Insecta in Animal kingdom. Classification of phylum Arthropoda upto classes. Relationship of class Insecta with other classes of Arthropoda. Morphology: Structure and functionsof insect cuticle and molting. Body segmentation. Structure of Head, thorax and abdomen. Structure and modifications of insect antennae, mouth parts, legs, Wing venation, modifications and wing coupling apparatus. Structure of male and female genital organ.

Unit- II:

- Metamorphosis and diapause in insects. Types of larvae and pupae. Structure and functions of digestive, circulatory, excretory, respiratory, nervous, secretary (Endocrine) and reproductive system, in insects. Types of reproduction in insects. Major sensory organs like simple and compound eyes, chemoreceptor.

Unit- III:

- Insect Ecology: Introduction, Environment and its components. Effect of abiotic factors– temperature, moisture, humidity, rainfall, light, atmospheric pressure and air currents. Effect of biotic factors – food competition, natural and environmental resistance.

Unit- IV:

- Categories of pests. Concept of IPM, Practices, scope and limitations of IPM. Classification of insecticides, toxicity of insecticides and formulations of insecticides. Chemical control- importance, hazards and limitations. Recent methods of pest control, repellents, anti feed ants, hormones, attractants, gamma radiation. Insecticides Act 1968- Important provisions. Application techniques of spray fluids. Symptoms of poisoning, first aid and antidotes.

Unit- V:

- Systematics: Taxonomy –importance, history and development and binomial nomenclature. Definitions of Biotype, Sub-species, Species, Genus, Family and Order. Classification of class Insecta upto Orders, basic groups of present day insects with special emphasis to orders and families of Agricultural importance like Orthoptera: Acrididae, Tettigonidae, Gryllidae, Gryllotalpidae; Dictyoptera: Mantidae, Blattidae; Odonata; Isoptera: Termitidae; Thysanoptera:

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BAG-116: Fundamentals of Agricultural Extension Education

CO: COURSE OBJECTIVES

CO-1 Understand the Role of Agricultural Extension: To provide students with an understanding of the importance and role of agricultural extension in enhancing agricultural productivity, promoting sustainable practices, and improving rural livelihoods.

CO-2 Learn Key Principles of Agricultural Extension: To introduce students to the fundamental principles, concepts, and theories that guide agricultural extension services and their application in diverse agricultural settings.

CO-3 Examine Extension Models and Approaches: To analyze various extension models, approaches, and methodologies used to communicate agricultural knowledge and practices to farmers, communities, and stakeholders.

CO-4 Develop Communication Skills for Extension Work: To enhance students' communication and interpersonal skills, including methods for delivering information and facilitating participatory learning within rural communities.

CO-5 Explore Extension Program Planning and Management: To teach students how to plan, implement, monitor, and evaluate extension programs and projects that aim to address agricultural and rural development challenges.

CO-6 Identify Key Stakeholders in Agricultural Extension: To familiarize students with the key stakeholders in agricultural extension (farmers, government agencies, NGOs, and private sector entities) and their roles in agricultural development.

CO-7 Promote Critical Thinking in Agricultural Innovation: To encourage students to critically evaluate agricultural innovations and technologies, assessing their relevance, sustainability, and effectiveness in different socio-economic and environmental contexts.

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Course Content

Unit- I:

- Education: Meaning, definition & Types; Extension Education- meaning, definition, scope and process; objectives and principles of Extension Education; Extension Programme planning- Meaning, Process, Principles and Steps in Programme Development.

Unit- II:

- Extension systems in India: extension efforts in pre-independence era (Sriniketan, Marthandam, Firka Development Scheme, Gurgaon Experiment, etc.) and post-independence era (Etawah Pilot Project, Nilokheri Experiment, etc.); various extension/ agriculture development programmes launched by ICAR/ Govt. of India (IADP, IAAP, HYVP, KVK, IVLP, ORP, ND,NATP, NAIP, etc.). New trends in agriculture extension: privatization extension, cyber extension/ e-extension, market- led extension, farmer-led extension, expert systems, etc.

Unit- III:

- Rural Development: concept, meaning, definition; various rural development programmes launched by Govt. of India. Community Dev.-meaning, definition, concept & principles, Philosophy of C.D. Rural Leadership: concept and definition, types of leaders in rural context; extension administration: meaning and concept, principles and functions.

Unit- IV:

- Monitoring and evaluation: concept and definition, monitoring and evaluation of extension programmes; transfer of technology: concept and models, capacity building of extension personnel; extension teaching methods: meaning, classification, individual, group and mass contact methods, ICT Applications in TOT (New and Social Media), media mix strategies; communication: meaning and definition;

Unit- V:

- Principles and Functions of Communication, models and barriers to communication. Agriculture journalism; diffusion and adoption of innovation: concept and meaning, process and stages of adoption, adopter categories.

Practical:

To get acquainted with university extension system. Group discussion- exercise; handling and use of audio visual equipments and digital camera and LCD projector; preparation and use of AV aids, preparation of extension literature – leaflet, booklet, folder, pamphlet news stories and success stories; Presentation skills exercise; micro teaching exercise; A visit to village to understand the problems being encountered by the villagers/ farmers; to study organization and functioning of DRDA and other development departments at district level; visit to NGO and

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learning from their experience in rural development; understanding PRA techniques and their application in village development planning; exposure to mass media: visit to community radio and television studio for understanding the process of programme production; script writing, writing for print and electronic media, developing script for radio and television.

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BAG-118: Communication Skills and Personality Development

CO: COURSE OBJECTIVES

CO-1 Enhance Verbal Communication: To develop effective spoken communication skills, enabling students to express themselves clearly, confidently, and persuasively in various contexts, including public speaking, interviews, and presentations.

CO-2 Improve Non-Verbal Communication: To foster an understanding of non-verbal cues such as body language, facial expressions, posture, and eye contact, and how they impact communication.

CO-3 Develop Listening Skills: To strengthen active listening abilities, emphasizing the importance of listening for understanding, feedback, and engagement in both personal and professional interactions.

CO-4 Enhance Written Communication: To improve written communication skills, including grammar, structure, clarity, and tone, in various formats such as emails, reports, and formal correspondence.

CO-5 Boost Confidence and Self-Presentation: To build self-awareness and self-confidence through personal grooming, positive body language, and effective self-presentation techniques in social and professional settings.

CO-6 Foster Emotional Intelligence: To develop emotional intelligence skills such as empathy, emotional regulation, and social awareness, enhancing interpersonal relationships and communication effectiveness.

CO-7 Cultivate Critical Thinking and Problem-Solving: To encourage critical thinking in communication, allowing students to analyze situations, solve problems effectively, and make informed decisions in both professional and personal environments.

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Course Contents

Unit- I:

- Communication Skills: Structural and functional grammar; meaning and process of communication, verbal and nonverbal communication;

Unit- II:

- Listening and note taking, writing skills, oral presentation skills; field diary and lab record; indexing, footnote and bibliographic procedures.

Unit- III:

- Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting; individual and group presentations, impromptu presentation, public speaking; Group discussion.

Unit- IV:

- Organizing seminars and conferences.

Practical:

Listening and note taking, writing skills, oral presentation skills; field diary and lab record; indexing, footnote and bibliographic procedures. Reading and comprehension of general and technical articles, precise writing, summarizing, abstracting; individual and group presentations.

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BAG-118 A: English Grammar-II

CO: COURSE OBJECTIVES

CO-1 Enhance Advanced Understanding of Grammar: Develop a deeper understanding of complex English grammar structures, including advanced tenses, voice, mood, and conditionals.

CO-2 Improve Sentence Construction: Teach students to construct clear, concise, and grammatically correct sentences with an emphasis on variety and sophistication.

CO-3 Master Complex Sentence Structures: Explore and practice complex sentence types, including compound-complex sentences, subordination, and coordination.

CO-4 Refine Use of Modifiers and Clauses: Equip students with the skills to effectively use adjectives, adverbs, relative clauses, and other modifiers for clarity and precision in writing.

CO-5 Analyze Punctuation and Syntax: Develop proficiency in the correct use of punctuation marks (commas, semicolons, colons, etc.) to enhance meaning and readability.

CO-6 Strengthen Vocabulary through Grammar: Help students improve vocabulary usage through context and grammar, emphasizing word formation, collocations, and correct usage.

CO-7 Foster Critical Grammar Application in Writing: Enable students to apply grammar rules effectively in academic, professional, and creative writing to produce error-free texts.

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Course Content

Unit I

Review of Basic Grammar, Parts of speech, sentence structure, and punctuation, Verb Tenses, Present, past, future, and perfect aspects, Modifiers, Adjectives, adverbs, and their placement,

Unit II

Clauses and Sentence Types, Independent, dependent, and compound-complex sentences, Agreement, Subject-verb and pronoun-antecedent agreement, Active vs. Passive Voice, When to use each effectively, Common Grammatical Errors, Misplaced modifiers, comma splices, etc.

Unit III

Punctuation, Advanced usage of commas, semicolons, colons, and dashes, Style and Tone, How grammar affects writing style and audience engagement, Editing and Proofreading Techniques,

Unit IV

Application in Professional Writing, Grammar in resumes, cover letters, and reports, Strategies for self-editing and peer review, Final Review and Assessment

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BAG-118 B: Soft Skills-II

CO: COURSE OBJECTIVES

CO-1 Enhance Communication Skills: Improve verbal, non-verbal, and written communication abilities to ensure clarity, effectiveness, and professionalism in various settings.

CO-2 Develop Teamwork and Collaboration: Foster the ability to work effectively in diverse teams, focusing on cooperation, conflict resolution, and mutual respect in a group environment.

CO-3 Refine Time Management Techniques: Teach practical strategies for prioritizing tasks, meeting deadlines, and maintaining productivity in both personal and professional settings.

CO-4 Cultivate Leadership Abilities: Develop leadership skills, including decision-making, motivating others, delegating tasks, and leading by example to inspire and guide teams.

CO-5 Build Emotional Intelligence: Strengthen self-awareness, empathy, and emotional regulation to better understand oneself and interact with others in a professional environment.

CO-6 Improve Problem-Solving and Critical Thinking: Equip students with strategies to approach problems systematically, think critically, and find innovative solutions in a variety of situations.

CO-7 Promote Conflict Resolution Skills: Teach effective techniques for managing and resolving conflicts, fostering positive relationships and a harmonious work environment.

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Course Contents

Unit I

Presentation Skills, Speaking to a small group and large audience, Barriers to communication and non- verbal communication, Language skills, Types of presentation and use of aids, Effective public speaking.

Unit II

Memory Skills, Memory system, Short term and long term memory, Causes of memory problems, Methods of improving memory, preventing loss of memory.

Unit III

Technical Writing Skills, Defining Technical Communication and Organizing Information, Language in Technical Communication.

Unit IV

Description Vs Narration Vs Instruction, Letters, Memos, Electronic Communication, Formal and Informal Reports.

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BAG-118 C: Life Management-II

CO: COURSE OBJECTIVES

CO-1 Enhance Time Management Skills: To equip students with advanced techniques for managing their time effectively, prioritizing tasks, and balancing various aspects of life, including work, education, and personal commitments.

CO-2 Develop Emotional Intelligence: To help students understand and manage their emotions, build empathy, and improve their interpersonal relationships both personally and professionally.

CO-3 Master Decision-Making and Problem-Solving: To teach students methods for making informed and effective decisions, as well as strategies for solving complex life problems with confidence and clarity.

CO-4 Financial Management and Planning: To provide students with the knowledge and skills necessary to manage personal finances, including budgeting, investing, and planning for long-term financial goals.

CO-5 Promote Health and Wellness: To encourage students to develop habits for maintaining physical, mental, and emotional health through exercise, nutrition, mindfulness, and stress management techniques.

CO-6 Cultivate Leadership and Social Responsibility: To foster leadership qualities, enhance teamwork skills, and inspire students to take an active role in their communities through social responsibility initiatives.

CO-7 Set and Achieve Personal and Professional Goals: To guide students in setting realistic, measurable, and meaningful short-term and long-term goals, and to provide them with the tools and strategies to achieve them effectively.

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Course Contents

Unit I

Basics of Life Management, Ways of Life Management, Effective Reading & Writing, Emotional development, Basics of Character Building.

Unit II

Developing Tools of Life Management, Way to Creative Excellence, Effective Communication & Public Speaking, Developing Ideal Leadership Skill.

Unit III

Spiritual Potential of Personality, Ideal of a successful Personality, Adjustment & Behavioral Skill.

Unit IV

Workshop in campus and local areas.

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B.Sc. (Ag.) III Semester

BAG-201: Crop Production Technology – I (Kharif Crops)

CO: COURSE OBJECTIVES

CO-1 Understanding of Kharif Crops:

- To provide students with an in-depth knowledge of the different Kharif crops, their classification, and characteristics.

CO-2 Soil and Climate Requirements:

- To familiarize students with the soil types, climatic conditions, and environmental factors required for successful cultivation of Kharif crops.

CO-3 Crop Improvement:

- To explore strategies for improving crop yield, quality, and resistance to pests and diseases through breeding programs.

CO-4 Nutrient Management:

- To teach the application of appropriate fertilizers and manure for enhancing soil fertility and crop yield.

CO-5 Management of Pests and Diseases:

- To introduce students to the common pests and diseases affecting Kharif crops and their management through both organic and chemical means.

CO-6 Crop Yield and Post-Harvest Technology:

- To impart knowledge on harvesting techniques, post-harvest handling, and storage practices specific to Kharif crops.

CO-7 Economics and Market Trends:

- To make students aware of the economics of growing Kharif crops, including cost-benefit analysis, marketing strategies, and market trends for these crops.

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Course Contents

Unit- I:

- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Kharif crops.

Unit- II:

- Cereals – rice, maize, sorghum, pearl millet and finger millet, pulses-pigeonpea, mungbean and urdbean;

Unit- III:

- Oilseeds- groundnut, and soybean; fibre crops- cotton & jute;

Unit- IV:

- Forage crops-sorghum, cowpea, cluster bean and napier.

Practical:

Rice nursery preparation, transplanting of rice, sowing of soybean, pigeonpea and mungbean.maize, groundnut and cotton, effect of seed size on germination and seedling vigour of kharif season crops, effect of sowing depth on germination of kharif crops, identification of weeds in kharif season crops, top dressing and foliar feeding of nutrients, study of yield contributingcharacters and yield calculation of kharif season crops, study of crop varieties and importantagronomic experiments at experimental farm. study of forage experiments, morphological description of kharif season crops, visit to research centres of related crops.

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BAG-203: Fundamentals of Plant Breeding

CO: COURSE OBJECTIVES

CO-1 Understanding Genetic Principles: To provide students with a solid foundation in the principles of genetics and heredity as they relate to plant breeding.

CO-2 Breeding Methods: To familiarize students with various plant breeding techniques, including traditional and modern methods such as hybridization, selection, and biotechnology.

CO-3 Crop Improvement: To explore strategies for improving crop yield, quality, and resistance to pests and diseases through breeding programs.

CO-4 Evaluation of Breeding Lines: To teach students how to evaluate and select superior breeding lines based on phenotypic and genotypic traits.

CO-5 Plant Breeding Research: To develop skills in designing and conducting breeding experiments, including data collection and analysis.

CO-6 Ethical Considerations: To instill an understanding of the ethical implications and societal impacts of plant breeding practices.

CO-7 Application of Biotechnological Tools: To introduce students to biotechnological tools and techniques, such as molecular markers and genetic engineering, used in modern plant breeding.

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Course Contents

Unit- I:

- Historical development, concept, nature and role of plant breeding, major achievements and future prospects; Genetics in relation to plant breeding, modes of reproduction and apomixes, self-in compatibility and male sterility- genetic consequences, cultivar options. Domestication,

Unit- II:

- Acclimatization and Introduction; Centres of origin/ diversity, components of Genetic variation; Heritability and genetic advance; Genetic basis and breeding methods in self-pollinated crops - mass and pure line selection, hybridization techniques and handling of segregating population;

Unit- III:

- Multiline concept. Concepts of population genetics and Hardy-Weinberg Law, Genetic basis and methods of breeding cross pollinated crops, modes of selection; Population improvement Schemes- Ear to row method, Modified Ear to Row, recurrent selection schemes; Heterosis and inbreeding depression, development of inbred lines and hybrids, composite and synthetic varieties;

Unit- IV:

- Breeding methods in asexually propagated crops, clonal selection and hybridization; Maintenance of breeding records and data collection; Wide hybridization and pre-breeding; Polyploidy in relation to plant breeding, mutation breeding-methods and uses;

Unit- V:

- Breeding for important biotic and abiotic stresses; Biotechnological tools-DNA markers and marker assisted selection. Participatory plant breeding; Intellectual Property Rights, Patenting, Plant Breeders and & Farmer's Rights.

Practical:

Plant Breeder's kit, Study of germplasm of various crops. Study of floral structure of self-pollinated and cross pollinated crops. Emasculation and hybridization techniques in self & cross pollinated crops. Consequences of inbreeding on genetic structure of resulting populations. Study of male sterility system. Handling of segregation populations. Methods of calculating mean, range, variance, standard deviation, heritability. Designs used in plant breeding experiments, analysis of Randomized Block Design. To work out the mode of pollination in a given crop and extent of natural out-crossing. Prediction of performance of double cross hybrids.

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BAG-205: Agricultural Finance and Cooperation

CO: COURSE OBJECTIVES

CO-1 Understanding Agricultural Finance:

- To introduce students to the concept and importance of agricultural finance in supporting farm operations and rural development.

CO-2 Familiarization with Credit Systems:

- To understand various sources of credit available to farmers, including institutional (banks, cooperatives) and non-institutional (moneylenders, informal sources).

CO-3 Financial Management Skills:

- To develop financial management skills necessary for effective resource allocation, budgeting, and planning in agricultural enterprises.

CO-4 Cooperative Structure and Functioning:

- To understand the formation, operation, and management of agricultural cooperatives and their impact on rural economies.

CO-5 Policy and Government Support:

- To analyze the role of government policies, subsidies, and programs in promoting agricultural finance and cooperative development.

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Course Contents

Unit- I:

- Agricultural Finance- meaning, scope and significance, credit needs and its role in Indian agriculture. Agricultural credit: meaning, definition, need, classification. Credit analysis: 4 R's, and 3C's of credits. Sources of agricultural finance: institutional and non-institutional sources, commercial banks, social control and nationalization of commercial banks, Micro financing including KCC.

Unit- II:

- Lead bank scheme, RRBs, Scale of finance and unit cost. An introduction to higher financing institutions – RBI, NABARD, ADB, IMF, world bank, Insurance and Credit Guarantee Corporation of India. Cost of credit. Recent development in agricultural credit.

Unit- III:

- Preparation and analysis of financial statements – Balance Sheet and Income Statement. Basic guidelines for preparation of project reports- Bank norms – SWOT analysis.

Unit- IV:

- Agricultural Cooperation – Meaning, brief history of cooperative development in India, objectives, principles of cooperation, significance of cooperatives in Indian agriculture. Agricultural Cooperation in India- credit, marketing, consumer and multi-purpose cooperatives, farmers' service cooperative societies, processing cooperatives, farming cooperatives, cooperative warehousing; role of ICA, NCUI, NCDC, NAFED.

Practical:

Determination of most profitable level of capital use. Optimum allocation of limited amount of capital among different enterprise. Analysis of progress and performance of cooperatives using published data. Analysis of progress and performance of commercial banks and RRBs using published data. Visit to a commercial bank, cooperative bank and cooperative society to acquire firsthand knowledge of their management, schemes and procedures. Estimation of credit requirement of farm business – A case study. Preparation and analysis of balance sheet A case study. Preparation and analysis of income statement – A case study. Appraisal of a loan proposal. A case study. Techno-economic parameters for preparation of projects. Preparation of Bankable projects for various agricultural products and its value added products. Seminar on selected topics.

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BAG-207: Agri- Informatics

CO: COURSE OBJECTIVES

CO-1 Application of Technology in Agriculture: Equip students with knowledge on the use of modern technologies like Geographic Information Systems (GIS), remote sensing, big data analytics, and precision farming techniques to enhance agricultural production and resource management.

CO-2 Data Management & Analysis: Train students to handle large agricultural datasets, analyze them and extract actionable insights to improve farm management practices, crop yield predictions, pest control, and soil health.

CO-3 Development of Agricultural Software Solutions: Develop the capability to design and implement software tools for various agricultural sectors, such as crop modeling, irrigation scheduling, market prediction systems, and supply chain management.

CO-4 Sustainable Agriculture Practices: Promote understanding of sustainable farming practices by leveraging data-driven technologies to reduce waste, minimize environmental impact, and promote long-term productivity in agriculture.

CO-5 Enhancing Decision-Making in Agriculture: Foster the ability to make informed decisions based on data, supporting farmers in improving crop management, optimizing inputs (e.g., water, fertilizers), and maximizing overall farm profitability.

CO-6 Innovation and Research: Encourage students to engage in research and innovation in agri-informatics, exploring new ways to use technology to address global agricultural challenges such as climate change, resource scarcity, and food security.

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Course Contents

Unit- I:

- Introduction to Computers, Operating Systems, definition and types, Applications of MS- Office for document creation & Editing, Data presentation, interpretation and graph creation, statistical analysis, mathematical expressions, Database, concepts and types, uses of DBMS in Agriculture, World Wide Web (WWW):

Unit- II:

- Concepts and components. Introduction to computer programming languages, concepts and standard input/output operations. E-Agriculture, concepts and applications, Use of ICT in Agriculture.

Unit- III:

- Computer Models for understanding plant processes. IT application for computation of water and nutrient requirement of crops, Computer-controlled devices (automated systems) for Agri-input management, Smartphone Apps in Agriculture for farm advises, market price, postharvest management etc;

Unit- IV:

- Geospatial technology for generating valuable agri-information. Decision support systems, concepts, components and applications in Agriculture, Agriculture Expert System, Soil Information Systems etc for supporting Farm decisions. Preparation of contingent crop-planning using IT tools.

Practical:

Study of Computer Components, accessories, practice of important DOS Commands. Introduction of different operating systems such as windows, Unix/ Linux, Creating, Files & Folders, File Management. Use of MS-WORD and MS Power-point for creating, editing and presenting a scientific Document. MS-EXCEL - Creating a spreadsheet, use of statistical tools, writing expressions, creating graphs, analysis of scientific data. MS-ACCESS: Creating Database, preparing queries and reports, demonstration of Agri-information system. Introduction to World Wide Web (WWW).Introduction of programming languages. Hands on Crop Simulation Models (CSM) such as DSSAT/Crop-Info/CropSyst/ Wofost; Computation of water and nutrient requirements of crop using CSM and IT tools. Introduction of Geospatial Technology for generating valuable information for Agriculture. Hands on Decision Support System. Preparation of contingent crop planning.

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BAG-209: Farm Machinery and Power

CO: COURSE OBJECTIVES

CO-1 Understanding Farm Machinery: To provide in-depth knowledge about various types of farm machinery (tractors, plows, harvesters, etc.) and their applications in modern agriculture.

CO-2 Power Systems in Agriculture: To study the power sources used in agriculture, including the operation and maintenance of engines, motors, and alternative energy systems (solar, bioenergy, etc.).

CO-3 Technology Integration: To introduce students to cutting-edge technology such as automated systems, robotics, GPS, and precision farming tools used to optimize agricultural processes.

CO-4 Machinery Maintenance and Management: To teach students how to manage, maintain, and repair farm machinery, ensuring optimal performance and reducing downtime in farming operations.

CO-5 Design and Innovation: To equip students with the knowledge to design and innovate new farming tools and machinery that can solve existing challenges in agriculture and improve efficiency.

CO-6 Sustainable Agriculture: To promote sustainable farming practices by focusing on energy-efficient machinery, reduced environmental impact, and the incorporation of green technologies.

CO-7 Improving Productivity: To enable students to use machinery effectively to increase farm productivity, reduce labor costs, and enhance overall agricultural output.

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Course Contents

Unit- I:

- Status of Farm Power in India, Sources of Farm Power , I.C. engines, working principles of I C engines, comparison of two stroke and four stroke cycle engines ,

Unit- II:

- Study of different components of I.C. engine, I.C. engine terminology and solved problems, Familiarization with different systems of I.C. engines:

Unit- III:

- Air cleaning, cooling, lubrication, fuel supply and hydraulic control system of atractor, Familiarization with Power transmission system : clutch, gear box, differentialand final drive of a tractor ,

Unit- IV:

- Tractor types, Cost analysis of tractor power and attached implement, Familiarization with Primary and Secondary Tillage implement, Implement for hill agriculture, implement for intercultural operations,

Unit- V:

- Familiarization with sowing and planting equipment, calibration of a seed drill and solved examples, Familiarization with Plant Protection equipment, Familiarization with harvesting and threshing equipment.

Practical:

Study of different components of I.C. engine. To study air cleaning and cooling system of engine, Familiarization with clutch, transmission, differential and final drive of a tractor, Familiarization with lubrication and fuel supply system of engine, Familiarization with brake, steering, hydraulic control system of engine, Learning of tractor driving, Familiarization with operation of power tiller, Implements for hill agriculture, Familiarization with different types of primary and secondary tillage implements: mould plough, disc plough and disc harrow . Familiarization with seed- cum-fertilizer drills their seed metering mechanism andcalibration, planters and transplanter Familiarization with different types of sprayers and dusters Familiarization with different inter- cultivation equipment, Familiarization with harvesting and threshing machinery.

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BAG-211: Production Technology for Vegetables and Spices

CO: COURSE OBJECTIVES

CO-1 Understanding the Basics of Vegetable and Spice Production:

- Provide foundational knowledge of the various vegetables and spices, their classification, and importance in human nutrition and economy.

CO-2 Cultivation Practices and Techniques:

- Develop skills in selecting suitable varieties of vegetables and spices for different regions.

CO-3 Soil and Climate Requirements:

- Equip students with the understanding of the specific soil, temperature, and climatic conditions needed for optimum growth of vegetables and spices.

CO-4 Innovative Production Practices:

- Introduce advanced and innovative production techniques, such as hydroponics, vertical farming, and protected cultivation, to improve productivity and sustainability.

CO-5 Integrated Pest Management (IPM) and Disease Control:

- Educate students on integrated pest management (IPM) strategies and organic practices to minimize the use of chemical pesticides and enhance food safety.

CO-6 Post-Harvest Management:

- Focus on proper harvesting, handling, packaging, and storage techniques to minimize losses and preserve the quality of vegetables and spices for both local consumption and export.

CO-7 Sustainable Agricultural Practices:

- Promote environmentally sustainable practices, water conservation methods, and climate-resilient strategies in vegetable and spice production.

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Course Contents

Unit- I:

- Importance of vegetables & spices in human nutrition and national economy, kitchen gardening, brief about origin, area, climate, soil

Unit- II:

- Improved varieties and cultivation practices such as time of sowing, transplanting techniques, planting distance, fertilizer requirements, irrigation, weed management, harvesting and yield, physiological disorders,

Unit- III:

- Important vegetable and spices such as Tomato, Brinjal, Chilli, Capsicum, Cucumber, Melons, Gourds, Pumpkin, French bean, Peas; Cole crops such as Cabbage, Cauliflower, Knol-khol;

Unit- IV:

- Bulb crops such as Onion, Garlic; Root crops such as Carrot, Raddish, Beetroot; Tuber crops such as Potato; Leafy vegetables such as Amaranth, Palak. Perennial vegetables

Practical:
Identification of vegetables & spice crops and their seeds. Nursery raising. Direct seedsowing and transplanting. Study of morphological characters of different vegetables & spices. Fertilizers applications. Harvesting & preparation for market. Economics of vegetables and spices cultivation.

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BAG-213: Environmental Studies and Disaster Management

CO: COURSE OBJECTIVES

CO-1 Understanding the Basics of Vegetable and Spice Production:

- Provide foundational knowledge of the various vegetables and spices, their classification, and importance in human nutrition and economy.

CO-2 Cultivation Practices and Techniques:

- Develop skills in selecting suitable varieties of vegetables and spices for different regions.

CO-3 Soil and Climate Requirements:

- Equip students with the understanding of the specific soil, temperature, and climatic conditions needed for optimum growth of vegetables and spices.

CO-4 Innovative Production Practices:

- Introduce advanced and innovative production techniques, such as hydroponics, vertical farming, and protected cultivation, to improve productivity and sustainability.

CO-5 Integrated Pest Management (IPM) and Disease Control:

- Educate students on integrated pest management (IPM) strategies and organic practices to minimize the use of chemical pesticides and enhance food safety.

CO-6 Post-Harvest Management:

- Focus on proper harvesting, handling, packaging, and storage techniques to minimize losses and preserve the quality of vegetables and spices for both local consumption and export.

CO-7 Sustainable Agricultural Practices:

- Promote environmentally sustainable practices, water conservation methods, and climate-resilient strategies in vegetable and spice production.

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Course Contents

Unit- I:

- Multidisciplinary nature of environmental studies Definition, scope and importance. Natural Resources: Renewable and non-renewable resources, Natural resources and associated problems. a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

Unit- II:

- d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Case studies. f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. • Role of an individual in conservation of natural resources. • Equitable use of resources for sustainable lifestyles.

Unit- III:

- Ecosystems: Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem.

Unit- IV:

- Ecological succession, Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of the following ecosystem: a. Forest ecosystem b. Grassland ecosystem c. Desertecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

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BAG-215: Statistical Methods

CO: COURSE OBJECTIVES

CO-1 Descriptive Statistics: This method involves summarizing and describing the main features of a dataset. It includes measures like mean, median, mode, variance, standard deviation, and range to describe the central tendency and spread of data.

CO-2 Inferential Statistics: This approach makes inferences or predictions about a population based on a sample of data. It involves hypothesis testing, confidence intervals, and regression analysis to draw conclusions beyond the sample data.

CO-3 Probability Theory: The study of randomness and uncertainty. Probability distributions (such as normal, binomial, or Poisson distributions) are used to model and predict the likelihood of various outcomes.

CO-4 Regression Analysis: A method for modeling the relationship between one dependent variable and one or more independent variables. Linear regression, logistic regression, and other types of regression are used to predict or explain the behavior of a variable.

CO-5 Analysis of Variance (ANOVA): ANOVA is used to test for differences between two or more groups or treatments. It compares means across groups and helps determine if at least one group mean is significantly different from the others.

CO-6 Chi-Square Test: A statistical test used to determine if there is a significant association between categorical variables. It is often used in testing hypotheses about the relationship between observed and expected frequencies.

CO-7 Time Series Analysis: This method involves analyzing data points collected or recorded at specific time intervals. It is used for forecasting and understanding trends, seasonality, and cyclic behaviors in data.

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Course Contents

Unit- I:

- Introduction to Statistics and its Applications in Agriculture, GraphicalRepresentation of Data, Measures of Central Tendency & Dispersion,

Unit- II:

- Definition of Probability, Addition and Multiplication Theorem (without proof). Simple Problems Based on Probability. Binomial & Poisson Distributions,

Unit- III:

- Definition of Correlation, Scatter Diagram. Karl Pearson's Coefficient of Correlation. Linear Regression Equations. Introduction to Test of Significance, One sample & two sample test t for Means, Chi-Square Test of Independence of Attributes in 2 ×2 Contingency Table.

Unit- IV:

- Introduction to Analysis of Variance, Analysis of One Way Classification. Introduction to Sampling Methods, Sampling versus Complete Enumeration, Simple Random Sampling with and without replacement, Use of Random Number Tables for selection of Simple Random Sample.

Practical:

Graphical Representation of Data. Measures of Central Tendency (Ungrouped data) with Calculation of Quartiles, Deciles& Percentiles. Measures of Central Tendency (Grouped data) with Calculation of Quartiles, Deciles& Percentiles. Measures of Dispersion (Ungrouped Data).Measures of Dispersion (Grouped Data).Moments, Measures of Skewness & Kurtosis (Ungrouped Data).Moments, Measures of Skewness & Kurtosis (Grouped Data).Correlation & Regression Analysis. Application of One Sample t-test. Application of Two Sample Fisher's t-test. Chi-Square test of Goodness of Fit. Chi-Square test of Independence of Attributes for 2 ×2 contingency table. Analysis of Variance One Way Classification. Analysis of Variance Two Way Classification. Selection of random sample using Simple Random Sampling.

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BAG-215 A Introduction to Mathematical Programming

CO: COURSE OBJECTIVES

CO-1 Understand the Basics of Mathematical Programming:

- Learn the fundamental concepts of mathematical programming, including optimization problems, decision variables, constraints, and objective functions.

CO -2 Formulate Optimization Problems:

- Develop the ability to translate real-world problems into mathematical programming models. This includes identifying objectives and constraints in practical situations.

CO-3 Learn Different Types of Optimization Problems:

- Explore various types of optimization problems, such as linear programming (LP), integer programming (IP), and nonlinear programming (NLP).

CO-4 Understand and Apply Linear Programming Techniques:

- Gain proficiency in solving linear programming problems using methods like the Simplex algorithm, graphical methods, and duality theory.

CO -5 Explore Integer and Mixed-Integer Programming:

- Learn how to solve problems involving integer constraints, and understand the challenges and techniques for solving mixed-integer programming (MIP) problems.

CO-6 Interpret and Analyze Results:

- Develop the skills to analyze the results of optimization problems, including sensitivity analysis, interpreting dual variables, and evaluating the quality of the solution.

CO -7 Introduction to Software and Tools for Mathematical Programming:

- Become familiar with software tools (like Excel Solver, Python, Gurobi, or CPLEX) for modeling and solving optimization problems, and understand how to apply these tools to practical problems.

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Course Contents

Unit I
Introduction to the field of mathematical programming. Basic concepts and notation. Linear programs formulation through examples from engineering / business decision making problems; preliminary theory and geometry of linear programs, basic feasible solution.

Unit II
simplex method, variants of simplex method, like two phase method and revised simplex method; duality and its principles, interpretation of dual variables, dual simplex method, primal-dual method; complexity of simplex method.

Unit III
linear integer programs, their applications in real decision making problems, cutting plane and branch and bound methods, transportation problems, assignment problems, network maximum flow problems.

Unit IV
Ellipsoid method, Karmarkar's interior point method;
nonlinear programming, Lagrange multipliers, Farkas lemma, constraint qualification, KKT optimality conditions, sufficiency of KKT under convexity;
quadratic programs.

Unit V
Wolfe method, applications of quadratic programs in some domains like portfolio optimization and support vector machines, etc. Integer programming problems, the branch and bound method. Formulating the mathematical model for linear problems, primal dual relationship. Sensitivity analysis.

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BAG-215 B Introduction to Modeling and Simulation

CO: COURSE OBJECTIVES

CO-1 Understanding the Basics of M&S:
Learn the foundational concepts of modeling and simulation, including different types of models (physical, mathematical, and computational) and the role of simulation in understanding complex systems.

CO-2 Differentiate between Types of Models:
Understand the distinction between continuous and discrete models, deterministic and stochastic models, and their respective applications in real-world systems.

CO-3 Identify Components of a Simulation:
Gain insight into the key elements of a simulation, such as input data, model logic, and output analysis. Recognize the importance of each in the simulation process.

CO-4 Application of M&S in Various Fields:
Explore how modeling and simulation are used in industries such as aerospace, healthcare, economics, manufacturing, and environmental science for decision-making and problem-solving.

CO-5 Learn Simulation Methodologies:
Study various simulation methodologies, including Monte Carlo simulations, discrete event simulation, agent-based modeling, and system dynamics, along with their appropriate applications.

CO-6 Model Validation and Verification:
Understand the processes of model verification (ensuring the model is implemented correctly) and validation (ensuring the model accurately represents the real system), and their importance in achieving reliable results.

CO-7 Ethical and Practical Considerations:
Discuss the ethical implications of using models and simulations in decision-making, along with the challenges involved in modeling real-world systems accurately, such as uncertainty and computational limits.

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Course Contents

Unit I
Introduction: System, environment, input and output variables, State variables; Static and Dynamic systems; Hierarchy of knowledge about a system and Modeling Strategy, Physical Modeling: Dimensions analysis, Dimensionless grouping of input and output variables of find empirical relations, similarity criteria and their application to physical models.

Unit II
Modeling of System with Known Structure: Review of conservation laws and the governing equation for heat, mass and momentum transfer, Deterministic model-(a) distributed parameter models in terms of partial identification and their solutions and (b) lumped parameter models in terms of differential and difference equations, state space model, transfer functions block diagram and sub systems, stability of transfer functions, modeling for control.

Unit III
Optimizations and Design of Systems: Summary of gradient based techniques: Nontraditional Optimizations techniques (1) genetic Algorithm (GA) - coding, GA operations elitism, Application using MATLAB :(ii) Simulated Annealing.

Unit IV
Neural Network Modeling of Systems only with Input-output Database: Neurons, architecture of neural networks, knowledge representation, learning algorithm. Multilayer feed forward network and its back propagation learning algorithm, Application to complex engineering systems and strategy for optimum output.

Unit V
Modeling Based on Expert Knowledge: Fuzzy sets, Membership functions, Fuzzy Inference systems, Expert Knowledge and Fuzzy Models, Design of Fuzzy Controllers, Simulation of Engineering Systems: Monte-Carlo simulation, Simulation of continuous and discrete processes with suitable examples from engineering problems.

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BAG-215 C Algebraic Techniques and Semi definite Optimization

CO: COURSE OBJECTIVES

CO -1 Fundamentals of Algebraic Techniques: Learn the basics of linear algebra, including matrix theory, eigenvalues, and eigenvectors, which are essential tools in optimization. Understand the concept of positive semi definite (psd) matrices and their relevance in optimization problems.

CO-2 Introduction to Optimization: Gain a foundational understanding of optimization theory, especially convex optimization. Learn about different types of optimization problems, including linear and nonlinear programming.

CO-3 Semi definite Programming (SDP): Understand what semi definite programming is and how it generalizes linear programming to matrix variables. Explore the key properties of SDPs and how they can be formulated and solved.

CO-4 Duality Theory: Study the duality of optimization problems, focusing on how primal and dual problems are related in semi definite programming. Learn about the duality gap and its significance in solving SDPs.

CO-5 Applications of Semi definite Optimization: Examine real-world applications of SDP in areas like control theory, machine learning, structural optimization, and quantum mechanics. Explore how semi definite optimization is used in approximation algorithms and to solve problems in combinatorial optimization.

CO-6 Numerical Methods for Solving SDPs: Understand the computational methods used to solve semi definite programs, including interior-point methods and other algorithms. Learn how to implement these methods using software tools such as MATLAB, Python, or specialized optimization solvers.

CO -7 Algebraic Structure in Optimization: Explore how algebraic structures, such as matrix factorizations and linear algebraic properties, can simplify and improve the efficiency of solving SDPs. Investigate how algebraic techniques contribute to understanding the geometry of optimization problems.

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Course Contents

Unit I
Semi definite programming (I), Semi definite programming (II), Algebra review, Univariate polynomials, Resultants and discriminants, Hyperbolic polynomials, SDP representability,

Unit II
Newton polytopes/BKK bound, Sums of squares (I), Sums of squares (II), SOS Applications, Varieties, Ideals, Groebner bases, Nullstellensatz, Complexity analysis of interior point methods

Unit III
Zero dimensional systems (I), Zero dimensional systems (II), Quantifier elimination, Real Nullstellensatz, Representation theorems, Practical implementations of semi definite programs

Unit IV
Symmetry reduction methods, Apps: polynomial solving, Markov chains, Graph theoretic apps, Applications in control theory, machine learning, and combinatorial optimization

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BAG-217 Livestock and Poultry Management

CO: COURSE OBJECTIVES

CO-1 Understanding Livestock and Poultry Types: Identify and classify various types of livestock and poultry breeds, including their characteristics, uses, and the role they play in agriculture and the economy.

CO -2 Animal Health Management: Learn the basic principles of animal health, including preventive measures, common diseases in livestock and poultry, and their treatment and control methods.

CO-3 Animal Nutrition and Feeding: Understand the nutritional needs of livestock and poultry, including the types of feed and their role in growth, reproduction, and overall health.

CO-4 Housing and Environmental Management: Explore the importance of proper housing, space requirements, and environmental conditions for livestock and poultry to ensure their well-being and productivity.

CO-5 Reproductive Management: Learn the principles of reproduction in livestock and poultry, including breeding techniques, estrous cycles, and the management of breeding programs.

CO-6 Production Systems and Productivity: Investigate the different livestock and poultry production systems (e.g., free-range, intensive, organic) and the factors that influence productivity, such as genetics, environment, and management practices.

CO-7 Economic Aspects of Livestock and Poultry Farming: Examine the economic considerations in livestock and poultry management, including cost analysis, market trends, and financial planning for sustainable farm operations.

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Course Contents

Unit- I:

- Role of livestock in the national economy. Reproduction in farm animals and poultry. Housing principles, space requirements for different species of livestock and poultry. Management of calves, growing heifers and milch animals.

Unit- II:

- Management of sheep, goat and swine. Incubation, hatching and brooding. Management of growers and layers. Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry. Improvement of farm animals and poultry.

Unit- III:

- Digestion in livestock and poultry. Classification of feedstuffs. Proximate principlesof feed. Nutrients and their functions. Feed ingredients for ration for livestock and poultry. Feed supplements and feed additives. Feeding of livestock and poultry.

Unit- IV:

- Introduction of livestock and poultry diseases. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.

Practical:

External body parts of cattle, buffalo, sheep, goat, swine and poultry. Handling and restraining of livestock. Identification methods of farm animals and poultry. Visit to IDF and IPF to study breeds of livestock and poultry and daily routine farm operations and farm records. Judging of cattle, buffalo and poultry. Culling of livestock and poultry. Planning and layout of housing for different types of livestock. Computation of rations for livestock. Formulation of concentrate mixtures. Clean milk production, milking methods. Hatchery operations, incubation and hatching equipments. Management of chicks, growers and layers. Debeaking, dusting and vaccination. Economics of cattle, buffalo, sheep, goat, swine and poultry production.

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B.Sc. (Ag.) IV Semester

BAG-202: Crop Production Technology –II (Rabi Crops)

CO: COURSE OBJECTIVES

CO-1 Familiarize students with rabi crops: Teach the types, characteristics, and importance of various rabi crops, such as wheat, barley, mustard, gram, peas, and others.

CO-2 Develop technical knowledge: Impart knowledge on the appropriate agronomic practices for rabi crop cultivation, including sowing techniques, irrigation, nutrient management, weed control, pest and disease management, and harvesting.

CO-3 Understand climatic and soil conditions: Enable students to understand the climatic conditions and soil types best suited for rabi crops and how to optimize environmental factors for successful crop production.

CO-4 Explore modern technologies: Introduce modern agricultural technologies and innovations that enhance productivity, such as mechanization, precision farming, and the use of improved crop varieties.

CO-5 Promote sustainable practices: Educate students on sustainable farming practices, efficient water usage, soil health management, and integrated pest management (IPM) for rabi crop production.

CO-6 Increase crop productivity and quality: Equip students with skills to improve both the yield and quality of rabi crops through scientific management and adoption of best agricultural practices.

CO-7 Problem-solving and decision-making: Develop problem-solving and decision-making abilities in the context of crop management for different rabi crops under diverse field conditions.

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Course Contents

Unit- I:

- Origin, geographical distribution, economic importance

Unit- II:

- Soil and climatic requirements, varieties, cultural practices and yield of Rabi crops;cereals –wheat and barley, pulses-chickpea, lentil, peas,

Unit- III:

- Oilseeds-rapeseed, mustard and sunflower; sugar crops-sugarcane;

Unit- IV:

- Medicinal and aromatic crops-mentha, lemon grass and citronella,

Unit- V:

- Forage crops-berseem, lucerne and oat.

Practical:

Sowing methods of wheat and sugarcane, identification of weeds in rabiseason crops, study of morphological characteristics of rabicrops, study of yield contributing characters of rabiseason crops, yield and juice quality analysis of sugarcane, study of important agronomic experiments of rabicrops at experimental farms. Study of rabiforage experiments, oil extraction of medicinal crops, visit to research stations of related crops.

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BAG-204: Production Technology for Ornamental Crops, MAP and Landscaping

CO: COURSE OBJECTIVES

CO-1 Understanding the Importance of Ornamental Crops and Landscaping: To familiarize students with the role of ornamental plants in enhancing aesthetics and improving the quality of human environments, including urban, suburban, and rural landscapes.

CO-2 Knowledge of Medicinal and Aromatic Plants (MAP): To introduce the cultivation practices, uses, and economic importance of medicinal and aromatic plants in healthcare, pharmaceuticals, and the fragrance industry.

CO-3 Cultivation Practices: To study the best practices in the propagation, cultivation, and maintenance of ornamental plants and MAPs.

CO-4 Landscape Design and Management: To develop skills in the planning and design of landscapes using a variety of ornamental plants, including lawn management, flower beds, and shrubber.

CO-5 Environmental Impact and Sustainability: To explore the environmental benefits of ornamental and medicinal plants, such as improving air quality, conserving biodiversity, and mitigating the effects of climate change.

CO-6 Encourage Circular Economy in Agriculture: To promote waste-to-energy processes (e.g., using agricultural by-products for bioenergy production) to create a circular economy model in agriculture.

CO-7 Support Rural Development: To contribute to the socio-economic development of rural areas by providing renewable energy access, creating green jobs, and improving agricultural resilience.

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Course Contents

Unit- I:

- Importance and scope of ornamental crops, medicinal and aromatic plants and landscaping. Principles of landscaping. Landscape uses of trees, shrubs and climbers.

Unit- II:

- Production technology of important cut flowers like rose, gerbera, carnation, lilium and orchids under protected conditions and gladiolus, tuberose, chrysanthemum underopen conditions.

Unit- III:

- Package of practices for loose flowers like marigold and jasmine under open conditions.

Unit- IV:

- Production technology of important medicinal plants like ashwagandha, asparagus, aloe, costus, Cinnamomum, periwinkle, isabgol and aromatic plants like mint, lemongrass, citronella, palmarosa, ocimum, rose, geranium, vetiver.

Unit- V:

- Processing and value addition in ornamental crops and MAPs produce.

Practical:

Identification of Ornamental plants. Identification of Medicinal and Aromatic Plants. Nursery bed preparation and seed sowing. Training and pruning of Ornamental plants. Planning and layout of garden. Bed preparation and planting of MAP. Protected structures – care and maintenance. Intercultural operations in flowers and MAP. Harvesting and post-harvesthandling of cut and loose flowers. Processing of MAP. Visit to commercial flower/MAP uni

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BAG-206 Renewable Energy and Green Technology

CO: COURSE OBJECTIVES

CO -1 Understand the Principles of Renewable Energy: Develop a solid understanding of the basic principles and technologies behind renewable energy sources, such as solar, wind, geothermal, hydro, and biomass.

CO-2 Evaluate the Environmental Impact of Energy Systems: Analyze and compare the environmental impacts of conventional and renewable energy sources, focusing on sustainability, carbon footprints, and ecological consequences.

CO -3 Assess the Technological Advancements in Green Technology: Study the latest technological innovations in green technology, including energy-efficient appliances, smart grids, and carbon capture technologies.

CO-4 Explore the Economics of Renewable Energy: Understand the economic challenges and opportunities in renewable energy, including cost analysis, financing, and government incentives that promote clean energy solutions.

CO-5 Analyze Policy and Regulatory Frameworks: Investigate the global and local policies, regulations, and international agreements that shape the development and deployment of renewable energy and green technologies.

CO-6 Design and Implement Renewable Energy Projects: Learn how to design, plan, and implement renewable energy projects, including feasibility studies, site assessments, and integration with existing energy infrastructures.

CO7 Promote Sustainable Practices and Energy Efficiency: Encourage the adoption of energy-efficient practices and sustainable energy solutions across industries and communities, emphasizing the role of green technology in mitigating climate change.

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Course Contents

Unit- I:

- Classification of energy sources, contribution of these of sources in agricultural sector, Familiarization with biomass utilization for biofuel production and their application,

Unit- II:

- Familiarization with types of biogas plants and gasifiers, biogas, bioalcohol, biodiesel and biooil production and their utilization as bioenergy resource,

Unit- III:

- Introduction of solar energy, collection and their application, Familiarization with solar energy gadgets: solar cooker, solar water heater, application of solar energy: solar drying, solar pond, solar distillation,

Unit- IV:

- Solar photovoltaic system and their application, introduction of wind energy and their application.

Practical:

Familiarization with renewable energy gadgets. To study biogas plants, To study gasifiers, To study the production process of biodiesel, To study briquetting machine, To study the production process of bio-fuels. Familiarization with different solar energy gadgets. To study solar photovoltaic system: solar light, solar pumping, solar fencing. To study solar cooker, Tostudy solar drying system. To study solar distillation and solar pond.

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BAG-208: Problematic Soils and their Management

CO: COURSE OBJECTIVES

CO-1 Identify Problematic Soils: Enable students to recognize and classify various types of problematic soils, such as saline, sodic, acidic, expansive, and compacted soils.

CO-2 Understand Soil Genesis and Characteristics: Provide insights into the formation processes, physical, chemical, and biological properties that make soils problematic.

CO-3 Assess Soil Degradation: Develop the ability to evaluate the extent and causes of soil degradation through laboratory and field studies.

CO-4 Explore Soil-Plant Relationships: Examine the impact of problematic soils on plant growth and productivity, focusing on nutrient availability and water retention.

CO-5 Management Strategies: Equip students with techniques and practices for the reclamation, amendment, and sustainable management of problematic soils.

CO-6 Mitigate Environmental Impacts: Foster awareness of how problematic soils influence environmental systems and learn strategies to minimize adverse effects, such as erosion, pollution, or loss of biodiversity.

CO-7 Promote Sustainable Land Use: Advocate for integrated land management approaches that balance soil restoration with agricultural productivity and ecosystem health.

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Course Contents

Unit- I:

- Soil quality and health, Distribution of Waste land and problem soils in India. Their categorization based on properties.

Unit- II:

- Reclamation and management of Saline and sodic soils, Acid soils, Acid Sulphate soils, Eroded and Compacted soils, Flooded soils, Polluted soils.

Unit- III:

- Irrigation water – quality and standards, utilization of saline water in agriculture. Remote sensing and GIS in diagnosis and management of problem soils.

Unit- IV:

- Multipurpose tree species, bio remediation through MPTs of soils, land capability and classification, land suitability classification. Problematic soils under different Agro- ecosystems.

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BAG-210: Production Technology for Fruit and Plantation Crops

CO: COURSE OBJECTIVES

CO-1 Understanding Crop Requirements: Develop a comprehensive understanding of the climatic, soil, and nutritional requirements of major fruit and plantation crops.

CO-2 Knowledge of Cultivation Practices: Learn scientific cultivation practices, including planting, spacing, irrigation, and fertilization methods, to enhance productivity and sustainability.

CO-3 Pest and Disease Management: Equip students with skills to identify, prevent, and manage pests and diseases affecting fruit and plantation crops using integrated pest management (IPM) techniques.

CO-4 Post-Harvest Technology: Understand the principles of harvesting, grading, packaging, and storage of fruit and plantation crops to maintain quality and reduce losses.

CO-5 Improving Yield and Quality: Gain knowledge about modern technologies, including high-yielding varieties, grafting techniques, and precision farming, to improve the yield and quality of crops.

CO-6 Sustainability and Environmental Concerns: Explore sustainable farming practices that balance production needs with environmental conservation, such as organic farming and agroforestry.

CO-7 Market and Economic Analysis: Analyze the market trends, value chains, and economic considerations related to the production and marketing of fruit and plantation crops.

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Course Content

Unit- I:

- Importance and scope of fruit and plantation crop industry in India;

Unit- II:

- Importance of rootstocks; Production technologies for the cultivation of major fruits- mango, banana, citrus, grape, guava, litchi, papaya, sapota, apple, pear, peach, walnut, almond

Unit- III:

- Minor fruits- date, ber, pineapple, pomegranate, jackfruit, strawberry,

Unit- IV:

- Plantation crops-coconut, are canut, cashew, tea, coffee & rubber.

Practical:

Seed propagation. Scarification and stratification of seeds. Propagation methods for fruit and plantation crops. Description and identification of fruit. Preparation of plant bio regulators and their uses, important pests, diseases and physiological disorders of above fruit andplantation crops, Visit to commercial orchards.

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BAG-212: Principles of Seed Technology

CO: COURSE OBJECTIVES

CO-1 Understand the Basics of Seed Science: Develop foundational knowledge of seed biology, including seed structure, development, and physiology.

CO-2 Learn Seed Production Techniques: Gain insights into modern methods and best practices for seed production in various crops to ensure high quality and yield.

CO-3 Explore Seed Quality Parameters: Study the factors affecting seed quality, including genetic purity, viability, vigor, and health.

CO-4 Master Seed Processing and Handling: Acquire practical knowledge of seed cleaning, grading, treatment, and storage methods to maintain seed quality.

CO-5 Examine Seed Certification Standards: Understand the principles and procedures of seed certification to comply with national and international standards.

CO-6 Study Seed Testing and Analysis: Learn techniques for seed testing, including germination tests, moisture determination, and seed health assessments.

CO-7 Understand the Role of Seed Technology in Agriculture: Analyze the economic and ecological importance of high-quality seeds in sustainable agriculture and food security.

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Course Contents

Unit- I:

- Seed and seed technology: introduction, definition and importance. Deterioration causes of crop varieties and their control; Maintenance of genetic purity during seed production, seed quality; Definition, Characters of good quality seed, different classesof seed. Foundation and certified seed production of important cereals, pulses, oilseeds, fodder and vegetables.

Unit- II:

- Seed certification, phases of certification, procedure for seed certification, field inspection. Seed Act and Seed Act enforcement. Duty and powers of seed inspector, offences and penalties. Seeds Control Order 1983, Varietal Identification through Grow Out Test and Electrophoresis, Molecular and Biochemical test.

Unit- III:

- Detection of genetically modified crops, Transgene contamination in non-GM crops, GM crops and organic seed production. Seed drying, processing and their steps, seed testing for quality assessment, seed treatment, its importance, method of application and seed packing.

Unit- IV:

- Seed storage: general principles, stages and factors affecting seed longevity during storage. Measures for pest and disease control during storage.

Unit- V:

- Seed marketing: structure and organization, sales generation activities, promotional media. Factors affecting seed marketing, Role of WTO and OECD in seed marketing. Private and public sectors and their production and marketing strategies.

Practical:

Seed production in major cereals: Wheat, Rice, Maize, Sorghum, Bajra and Ragi. Seed production in major pulses: Urd, Mung, Pigeonpea, Lentil, Gram, Field bean, pea. Seed production in major oilseeds: Soybean, Sunflower, Rapeseed, Groundnut and Mustard. Seed production in important vegetable crops. Seed sampling and testing: Physical purity, germination, viability, etc. Seed and seedling vigour test. Genetic purity test: Grow out test and electrophoresis. Seed certification: Procedure, Field inspection, Preparation of field inspection report. Visit to seed production farms, seed testing laboratories and seed processing plant.

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BAG-214: Farming System & Sustainable Agriculture

CO: COURSE OBJECTIVES

CO-1 Understand Farming Systems: To provide students with a comprehensive understanding of various farming systems, including traditional, organic, and modern approaches, and their role in agricultural sustainability.

CO-2 Analyze Agricultural Ecosystems: To explore the interactions between crops, livestock, soil, water, and climate in farming systems, emphasizing the ecological principles underlying sustainable agriculture.

CO-3 Promote Sustainable Practices: To identify and evaluate sustainable agricultural practices that enhance productivity while conserving natural resources and maintaining ecological balance.

CO-4 Address Environmental Challenges: To analyze the environmental challenges associated with agriculture, such as soil degradation, water scarcity, and climate change, and develop strategies for mitigation and adaptation.

CO-5 Foster Socioeconomic Sustainability: To understand the socioeconomic dimensions of sustainable agriculture, including farmer livelihoods, market dynamics, and the role of policy in promoting sustainability.

CO-6 Apply Technological Innovations: To explore and apply innovative technologies, such as precision farming, agroecology, and climate-smart agriculture, to enhance sustainability and productivity in farming systems.

CO-7 Encourage Critical Thinking and Problem-Solving: To develop critical thinking and problem-solving skills for designing and implementing sustainable agricultural solutions tailored to specific regional and global challenges.

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Course Contents

Unit- I:

- Farming System-scope, importance, and concept, Types and systems of farming system and factors affecting types of farming, Farming system components and their maintenance, Cropping system and pattern, multiple cropping system, Efficient cropping system and their evaluation, Allied enterprises and their importance, Tools for determining production and efficiencies in cropping and farming system

Unit- II:

- Sustainable agriculture-problems and its impact on agriculture, indicators of sustainability, adaptation and mitigation, conservation agriculture strategies in agriculture, HEIA, LEIA and LEISA and its techniques for sustainability

Unit- III:

- Integrated farming system-historical background, objectives and characteristics, components of IFS and its advantages, Site specific development of IFS model for different agro-climatic zones, resource use efficiency and optimization techniques

Unit- IV:

- Resource cycling and flow of energy in different farming system, farming system and environment, Visit of IFS model in different agro-climatic zones of nearby states University/ institutes and farmers field

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BAG-216: Agricultural Marketing Trade & Prices

CO: COURSE OBJECTIVES

CO-1 Understand the Basics of Agricultural Marketing: To provide students with foundational knowledge of agricultural marketing principles, including product flow, market channels, and the role of intermediaries.

CO-2 Analyze Agricultural Market Structures: To examine different agricultural market structures, such as perfect competition, monopolistic competition, and oligopoly, and their implications for pricing and trade.

CO-3 Explore the Role of Agricultural Prices: To help students understand how agricultural prices are determined, including factors like supply and demand, government policies, and market speculation.

CO-4 Study International Agricultural Trade: To introduce students to the global trade of agricultural products, including trade policies, international trade agreements, and how global market trends affect local farmers and markets.

CO-5 Evaluate the Impact of Government Policies on Agriculture: To analyze the effect of government interventions, such as subsidies, tariffs, and price supports, on agricultural markets and prices.

CO-6 Assess the Role of Technology in Agricultural Marketing: To investigate how advancements in technology, such as digital platforms, supply chain innovations, and data analytics, are transforming agricultural marketing and pricing.

CO-7 Develop Practical Skills for Marketing Agricultural Products: To equip students with the skills necessary for effective marketing strategies, including market research, pricing techniques, and communication strategies tailored to the agricultural sector.

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Course Contents

Unit- I:

- Agricultural Marketing: Concepts and definitions of market, marketing, agricultural marketing, market structure, marketing mix and market segmentation, classification and characteristics of agricultural markets; demand, supply and producer's surplus of agri-commodities: nature and determinants of demand and supply of farm products, producer's surplus – meaning and its types, marketable and marketed surplus, factors affecting marketable surplus of agri-commodities; product life cycle (PLC) and competitive strategies:

Unit- II:

- Meaning and stages in PLC; characteristics of PLC; strategies in different stages of PLC; pricing and promotion strategies: pricing considerations and approaches – cost based and competition based pricing; market promotion – advertising, personal selling, sales promotion and publicity – their meaning and merits & demerits; marketing process and functions: Marketing process-concentration, dispersion and equalization; exchange functions – buying and selling; physical functions – storage, transport and processing; facilitating functions – packaging, branding, grading, qualitycontrol and labeling (Agmark); Market functionaries and marketing channels:

Unit- III:

- Types and importance of agencies involved in agricultural marketing; meaning and definition of marketing channel; number of channel levels; marketing channels for different farm products; Integration, efficiency, costs and price spread: Meaning, definition and types of market integration; marketing efficiency; marketing costs, margins and price spread; factors affecting cost of marketing; reasons for higher marketing costs of farm commodities; ways of reducing marketing costs;

Unit- IV:

- Role of Govt. in agricultural marketing: Public sector institutions- CWC, SWC, FCI, CACP & DMI – their objectives and functions; cooperative marketing in India; Risk in marketing: Types of risk in marketing; speculation & hedging; an overview of futures trading; Agricultural prices and policy: Meaning and functions of price; administered prices; need for agricultural price policy; Trade:

Unit- V:

- Concept of International Trade and its need, theories of absolute and comparative advantage. Present status and prospects of international trade in agri-commodities; GATT and WTO; Agreement on Agriculture (AoA) and its implications on Indian agriculture; IPR.

Practical:

Plotting and study of demand and supply curves and calculation of elasticities; Study of relationship between market arrivals and prices of some selected commodities; Computation of marketable and marketed surplus of important commodities; Study of price behaviour over

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time for some selected commodities; Construction of index numbers; Visit to a local market to study various marketing functions performed by different agencies, identification of marketing channels for selected commodity, collection of data regarding marketing costs, margins and price spread and presentation of report in the class; Visit to market institutions – NAFED, SWC, CWC, cooperative marketing society, etc. to study their organization and functioning; Application of principles of comparative advantage of international trade.

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BAG-218: Introductory Agro-meteorology & Climate Change

CO: COURSE OBJECTIVES

CO-1 Understand Basic Agro-meteorology Concepts: Introduce students to fundamental concepts in agro-meteorology, including the role of weather and climate in agriculture and how meteorological phenomena affect crop growth and farming practices.

CO-2 Analyze Weather Systems and Agricultural Impacts: Develop skills to analyze various weather systems (such as precipitation, temperature, humidity, and wind) and understand their direct and indirect impacts on agricultural productivity and farming techniques.

CO-3 **Examine Climate Change and Its Effect on Agriculture**: Explore the causes, evidence, and impacts of climate change, with a particular focus on how shifting climatic patterns affect agriculture, including crop yield variations, water availability, and pest/disease outbreaks.

CO-4 Learn Agro-meteorological Tools and Techniques: Familiarize students with the tools, technologies, and data sources used in agro-meteorological research and applications, such as weather forecasting, climate models, and remote sensing.

CO-5 Evaluate Climate Adaptation Strategies in Agriculture: Teach students strategies to mitigate and adapt to climate change in agriculture, including the use of climate-resilient crops, water conservation techniques, and sustainable farming practices.

CO-6 Assess the Role of Agro-meteorology in Agricultural Decision-Making: Understand how agro-meteorological data is used by farmers, policymakers, and agricultural professionals in decision-making, from planting and irrigation scheduling to pest and disease management.

CO-7 Promote Awareness of Climate Change Mitigation: Encourage students to think critically about how to reduce the carbon footprint of agriculture and promote sustainable farming practices that contribute to global efforts in mitigating climate change.

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Course Contents

Unit- I:

- Meaning and scope of agricultural meteorology; Earth atmosphere- its composition, extent and structure; Atmospheric weather variables; Atmospheric pressure, its variation with height; Wind, types of wind, daily and seasonal variation of wind speed, cyclone, anticyclone, land breeze and sea breeze;

Unit- II:

- Nature and properties of solar radiation, solar constant, depletion of solar radiation, short wave, long-wave and thermal radiation, net radiation, albedo; Atmospherictemperature, temperature inversion, lapse rate, daily and seasonal variations of temperature, vertical profile of temperature, Energy balance of earth;

Unit- III:

- Atmospheric humidity, concept of saturation, vapor pressure, process of condensation, formation of dew, fog, mist, frost, cloud; Precipitation, process of precipitation, types of precipitation such as rain, snow, sleet, and hail, cloud formationand classification; Artificial rainmaking. Monsoon- mechanism and importance in Indian agriculture, Weather hazards - drought, floods, frost, tropical cyclones and extreme weather conditions such as heat-wave and cold-wave. Agriculture and weather relations;

Unit- IV:

- Modifications of crop microclimate, climatic normals for crop and livestock production. Weather forecasting- types of weather forecast and their uses. Climate change, climatic variability, global warming, causes of climate change and its impact on regional and national Agriculture.

Practical:

Visit of Agro-meteorological Observatory, site selection of observatory, exposure of instruments and weather data recording. Measurement of total, shortwave and long-wave radiation, and its estimation using Planck's intensity law. Measurement of albedo and sunshine duration, computation of Radiation Intensity using BSS. Measurement of maximum and minimum air temperatures, its tabulation, trend and variation analysis. Measurement of soil temperature and computation of soil heat flux. Determination of vapor pressure and relative humidity. Determination of dew point temperature. Measurement of atmospheric pressure and analysis of atmospheric conditions. Measurement of wind speed and winddirection, preparation of wind rose. Measurement, tabulation and analysis of rain. Measurement of open pan evaporation and evapo-transpiration. Computation of PET and AET.

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BAG-220: Agribusiness Management

CO: COURSE OBJECTIVE

CO-1 Maximize Profitability: Optimize the use of resources, including land, labor, capital, and technology, to ensure the profitability and financial sustainability of agribusiness operations.

CO-2 Efficient Resource Utilization: Ensure the efficient use of inputs like seeds, fertilizers, water, and machinery to reduce waste and increase productivity.

CO-3 Market Competitiveness: Develop strategies to compete effectively in local and global markets, including pricing, branding, and distribution.

CO-4 Sustainability and Environmental Stewardship: Promote environmentally sustainable practices by reducing the ecological impact of agricultural operations, conserving natural resources, and supporting biodiversity.

CO-5 Risk Management: Identify, analyze, and mitigate risks related to price volatility, climate change, pests, diseases, and market uncertainties.

CO-6 Enhance Supply Chain Efficiency: Streamline processes from production to distribution, ensuring timely delivery of products while maintaining quality and minimizing costs.

CO-7 Support Rural Development: Contribute to rural economic growth by creating employment opportunities, fostering community development, and improving the livelihood of farmers and workers.

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Course Contents

Unit- I:

- Transformation of agriculture into agribusiness, various stakeholders and components of agribusiness systems. Importance of agribusiness in the Indian economy and New Agricultural Policy. Distinctive features of Agribusiness Management: Importance and needs of agro-based industries,

Unit- II:

- Classification of industries and types of agro based industries. Institutional arrangement, procedures to set up agro based industries. Constraints in establishing agro-based industries.

Unit- III:

- Agri-value chain: Understanding primary and support activities and their linkages. Business environment: PEST & SWOT analysis. Management functions: Roles & activities, Organization culture. Planning, meaning, definition, types of plans. Purpose or mission, goals or objectives, Strategies, polices procedures, rules, programs and budget. Components of a business plan, Steps in planning and implementation.

Unit- IV:

- Organization staffing, directing and motivation. Ordering, leading, supervision, communications, control. Capital Management and Financial management of Agribusiness. Financial statements and their importance. Marketing Management: Segmentation, targeting & positioning.

Unit- V:

- Marketing mix and marketing strategies. Consumer behaviour analysis, Product Life Cycle (PLC).Sales & Distribution Management. Pricing policy, various pricing methods. Project Management definition, project cycle, identification, formulation, appraisal, implementation, monitoring and evaluation. Project Appraisal and evaluation techniques.

Practical:

Study of agri-input markets: Seed, fertilizers, pesticides. Study of output markets: grains, fruits, vegetables, flowers. Study of product markets, retails trade commodity trading, and value added products. Study of financing institutions- Cooperative, Commercial banks, RRBs, Agribusiness Finance Limited, NABARD. Preparations of projects and Feasibility reports for agribusiness entrepreneur. Appraisal/evaluation techniques of identifying viable project- Non-discounting techniques. Case study of agro-based industries. Trend and growth rate of prices of agricultural commodities. Net present worth technique for selection of viable project. Internal rate of return.

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B.Sc. (Ag.) V Semester

BAG-301: Principles of Integrated Pest and Disease Management

CO: COURSE OBJECTIVES

CO-1 Understanding Pest and Disease Dynamics: To familiarize students with the basic concepts of pest and disease biology, including their lifecycle, behavior, and factors influencing their populations.

CO-2 Introduction to Integrated Pest Management (IPM): To introduce the concept of Integrated Pest Management (IPM) as a sustainable approach that combines multiple pest control methods.

CO-3 Identification and Diagnosis of Pests and Diseases: To develop skills in identifying common pests, diseases, and symptoms affecting crops, and understanding their impact on yield and quality.

CO-4 Pest and Disease Control Methods: To provide knowledge of various pest control strategies, including cultural, biological, chemical, and mechanical methods.

CO-5 Principles of Disease Management: To study the principles and practices of plant disease control, including sanitation, crop rotation, and the use of fungicides and other disease management tools.

CO-6 Pesticide Management and Safety: To educate students on the safe and effective use of chemical control methods, including the proper application techniques and safety protocols.

CO-7 Sustainable Practices in Pest and Disease Management: To highlight the importance of sustainable practices in pest and disease management to ensure long-term agricultural productivity.

CO-8 Economic and Social Aspects of Pest and Disease Management: To understand the economic importance of pest and disease management in agriculture, including cost-benefit analysis of various control measures.

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Course Contents

Unit- I:

- Categories of insect pests and diseases, IPM: Introduction, history, importance, concepts, principles and tools of IPM. Economic importance of insect pests, diseases and pest risk analysis.

Unit- II:

- Methods of detection and diagnosis of insect pest and diseases. Calculation and dynamics of economic injury level and importance of Economic threshold level. Methods of control: Host plant resistance, cultural, mechanical, physical, legislative, biological and chemical control.

Unit- III:

- Ecological management of crop environment. Introduction to conventional pesticides for the insect pests and disease management. Survey surveillance and forecasting of Insect pest and diseases. Development and validation of IPM module.

Unit- IV:

- Implementation and impact of IPM (IPM module for Insect pest and disease. Safety issues in pesticide uses. Political, social and legal implication of IPM. Case histories of important IPM programmes. Case histories of important IPM programmes.

Practical:

Methods of diagnosis and detection of various insect pests, and plant diseases, Methods of insect pests and plant disease measurement, Assessment of crop yield losses, calculations based on economics of IPM, Identification of biocontrol agents, different predators and natural enemies. Mass multiplication of Trichoderma, Pseudomonas, Trichogramma, NPVetc. Identification and nature of damage of important insect pests and diseases and their management. Crop (agro- ecosystem) dynamics of a selected insect pest and diseases. Plan & assess preventive strategies (IPM module) and decision making. crop monitoring attacked by insect, pest and diseases . Awareness campaign at farmers fields.

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BAG-303: Manures, Fertilizers and Soil Fertility Management

CO: COURSE OBJECTIVES

CO-1 Understanding Soil Fertility and Nutrient Dynamics: To comprehend the concepts of soil fertility, productivity, and factors influencing them.To study the physical, chemical, and biological properties of soil that affect nutrient availability.

CO-2 Nutrient Functions and Deficiency Symptoms: To understand the role of essential plant nutrients in crop growth and development.To identify nutrient deficiencies and toxicities and their impact on crops.

CO-3 Manures and Organic Amendment: To learn about the types, composition, and importance of organic manures like farmyard manure, compost, green manures, and biofertilizers.To explore methods of preparation, application, and benefits of organic amendments in sustainable agriculture.

CO-4 Fertilizers: Types, Properties, and Application: To study various chemical fertilizers, their composition, and nutrient content.To understand fertilizer application methods, including their timing and efficiency enhancement techniques.

CO-5 Soil Fertility Evaluation and Management: To gain proficiency in soil testing and plant analysis as tools for assessing soil fertility.To formulate site-specific nutrient management plans for sustainable crop production.

CO-6 Environmental Implications and Best Practices: To understand the environmental impacts of excessive or improper fertilizer use.To promote integrated nutrient management (INM) for sustainable and eco-friendly agriculture.

CO-7 Practical Applications and Field Studies: To provide hands-on experience in preparing organic manures, soil sampling, and fertilizer application.To familiarize students with fertilizer recommendations based on soil and crop requirements.

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Course Contents

Unit- I:

- Introduction and importance of organic manures, properties and methods of preparation of bulky and concentrated manures. Green/leaf manuring. Fertilizer recommendation approaches. Integrated nutrient management.

Unit- II:

- Chemical fertilizers: classification, composition and properties of major nitrogenous, phosphatic, potassic fertilizers, secondary & micronutrient fertilizers, Complex fertilizers, nano fertilizers Soil amendments, Fertilizer Storage, Fertilizer ControlOrder.

Unit- III:

- History of soil fertility and plant nutrition. criteria of essentiality. role, deficiency and toxicity symptoms of essential plant nutrients, Mechanisms of nutrient transport to plants, factors affecting nutrient availability to plants.

Unit- IV:

- Chemistry of soil nitrogen, phosphorus, potassium, calcium, magnesium, sulphur and micronutrients. Soil fertility evaluation, Soil testing. Critical levels of different nutrients in soil. Forms of nutrients in soil, plant analysis, rapid plant tissue tests. Indicator plants. Methods of fertilizer recommendations to crops. Factor influencing nutrient use efficiency (NUE), methods of application under rainfed and irrigated conditions.

Practical:

Introduction of analytical instruments and their principles, calibration and applications, Colorimetry and flame photometry. Estimation of soil organic carbon, Estimation of alkaline hydrolysable N in soils. Estimation of soil extractable P in soils. Estimation of exchangeable K; Ca and Mg in soils . Estimation of soil extractable S in soils..Estimation of DTPA extractable Zn in soils. Estimation of N in plants. Estimation of P in plants. Estimation of K in plants. Estimation of S in plants.

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BAG-305: Pests of Crops and Stored Grain and their Management

CO: COURSE OBJECTIVES

CO-1 Understanding Pest Dynamics

- To familiarize students with the biology, ecology, and classification of major pests affecting field crops and stored grains.
- To understand the life cycles and damage caused by these pests to identify them effectively.

CO-2 Pest-Management Strategies

- To introduce various integrated pest management (IPM) approaches, including cultural, mechanical, biological, and chemical methods.
- To emphasize the safe and effective use of pesticides, focusing on resistance management and environmental sustainability.

CO-3 Storage Pest Management

- To highlight the factors affecting pest infestations in storage environments and methods for preventing losses in stored grains.

CO-4 Economic Threshold Levels and Decision-Making

- To develop the ability to assess economic thresholds and make informed pest management decisions based on cost-benefit analysis.

CO-5 Sustainable Agriculture and Food Security

- To encourage the adoption of sustainable pest control measures that align with environmental conservation and global food security goals.

CO-6 Practical Skills Development

- To provide hands-on experience in pest identification, monitoring, and implementing management techniques through field visits and lab exercises.

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Course Contents

Unit- I:

- General account on nature and type of damage by different arthropods pests.

Unit- II:

- Scientific name, order, family, host range, distribution, biology and bionomics, nature of damage, and management of major pests and scientific name, order, family, host range, distribution, nature of damage and control practice other important arthropod pests of various field crop, vegetable crop, fruit crop, plantation crops, ornamental crops, spices and condiments.

Unit- III:

- Factors affecting losses of stored grain and role of physical, biological, mechanicaland chemical factors in deterioration of grain. Insect pests, mites, rodents, birds and microorganisms associated with stored grain and their management.

Unit- IV:

- Storage structure and methods of grain storage and fundamental principles of grain store management.

Practical:

Identification of different types of damage. Identification and study of life cycle and seasonal history of various insect pests attacking crops and their produce: (a) Field Crops; (b) Vegetable Crops; (c) Fruit Crops; (d) Plantation, gardens, Narcotics, spices & condiments. Identification of insect pests and Mites associated with stored grain. Determination of insect infestation by different methods. Assessment of losses due to insects. Calculations on the doses of insecticides application technique. Fumigation of grain store / godown. Identification of rodents and rodent control operations in godowns. Identification of birds andbird control operations in godowns. Determination of moisture content of grain. Methods of grain sampling under storage condition. Visit to Indian Storage Management and Research Institute, Hapur and Quality Laboratory, Department of Food., Delhi. Visit to nearest FCI godowns.

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BAG-307: Diseases of Field and Horticultural Crops and their Management I

CO: COURSE OBJECTIVES

CO-1 Understanding Plant Diseases: To familiarize students with the various diseases affecting field and horticultural crops, including their symptoms, etiology, and epidemiology.

CO-2 Diagnosis and Identification: To develop the ability to identify and diagnose crop diseases based on visible symptoms, causal agents, and environmental factors.

CO-3 Pathogen Biology: To understand the biology, life cycle, and interaction of pathogens with host plants, contributing to the development of diseases.

CO-4 Disease Management Practices: To study and analyze various disease management strategies, including cultural, chemical, biological, and integrated pest management (IPM) approaches.

CO-5 Economic Impact Assessment: To assess the economic impact of diseases on crop production and explore cost-effective and sustainable management practices.

CO-6 Latest Technologies and Research: To introduce students to modern tools and techniques such as disease forecasting models, molecular diagnostics, and biotechnological approaches in disease management.

CO-7 Practical Applications: To provide hands-on training in field diagnosis, sample collection, pathogen isolation, and identification techniques for effective disease management.

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Course Contents

Unit- I:

- Symptoms, etiology, disease cycle and management of major diseases of following crops: Field Crops: Rice: blast, brown spot, bacterial blight, sheath blight, false smut, khaira and tungro; Maize: stalk rots, downy mildew, leaf spots; Sorghum: smuts,grain mold and anthracnose, Bajra :downy mildew and ergot; Groundnut: early and late leaf spots, wilt

Unit- II:

- Soybean: Rhizoctonia blight, bacterial spot, seed and seedling rot and mosaic; Pigeonpea: Phytophthora blight, wilt and sterility mosaic; Fingermillet: Blast and leaf spot; Black&greengram: Cercospora leaf spot and anthracnose, web blight and yellow mosaic; Castor: Phytophthora blight; Tobacco: black shank, black root rot andmosaic.

Unit- III:

- Horticultural Crops: Guava: wilt and anthracnose; Banana: Panama wilt, bacterial wilt, Sigatoka and bunchy top; Papaya: foot rot, leaf curl and mosaic, Pomegranate: bacterial blight; Cruciferous vegetables: Alternaria leaf spot andblack rot;

Unit- IV:

- Brinjal: Phomopsis blight and fruit rot and Sclerotinia blight; Tomato: damping off, wilt, early and late blight, buck eye rot and leaf curl and mosaic; Okra: Yellow Vein Mosaic; Beans: anthracnose and bacterial blight; Ginger: soft rot; Colocasia: Phytophthora blight; Coconut: wilt and bud rot; Tea: blister blight; Coffee: rust

Practical:

Identification and histopathological studies of selected diseases of field and horticultural crops covered in theory. Field visit for the diagnosis of field problems. Collection andpreservation of plant diseased specimens for Herbarium; Note: Students should submit 50 pressed and well-mounted specimens.

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BAG-309: Crop Improvement-I (Kharif Crops)

CO: COURSE OBJECTIVES

CO-1 Understanding Crop Breeding Principles:

- To provide fundamental knowledge of plant breeding concepts, methods, and techniques applied to kharif crops.

CO-2 Familiarity with Kharif Crop Varieties:

- To study the major kharif crops such as rice, maize, sorghum, pearl millet, groundnut, cotton, and pulses.
- To understand the characteristics of existing high-yielding, disease-resistant, and region-specific varieties.

CO-3 Knowledge of Crop Improvement Strategies:

- To explore various breeding approaches like hybridization, mutation breeding, and molecular techniques for developing improved kharif crop varieties.

CO-4 Genetic Resource Management:

- To familiarize students with the conservation, evaluation, and utilization of plant genetic resources for crop improvement.

CO-5 Problem-Solving Skills:

- To identify the challenges related to kharif crop production, such as pests, diseases, and abiotic stresses, and develop strategies for improvement.

CO-6 Practical Exposure:

- To provide hands-on training in breeding techniques, hybridization, and evaluation of breeding material for kharif crop.

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Course Contents

Unit- I:

- Centers of origin, distribution of species, wild relatives in different cereals; pulses; oilseeds; fibres; fodders and cash crops; vegetable and horticultural crops;

Unit- II:

- Plant genetic resources, its utilization and conservation, study of genetics of qualitative and quantitative characters; Important concepts of breeding self pollinated, cross pollinated and vegetatively propagated crops;

Unit- III:

- Major breeding objectives and procedures including conventional and modern innovative approaches for development of hybrids and varieties for yield, adaptability, stability, abiotic and biotic stresstolerance and quality (physical, chemical, nutritional);

Unit- IV:

- Hybrid seed production technology in Maize, Rice, Sorghum, Pearl millet and Pigeonpea, etc. Ideotype concept and climate resilient crop varieties for future.

Practical:

Floral biology, emasculation and hybridization techniques in different crop species; viz., Rice, Jute, Maize, Sorghum, Pearl millet, Ragi, Pigeonpea, Urdbean, Mungbean, Soybean, Groundnut, Seasame, Caster, Cotton, Cowpea, Tobacco, Brinjal, Okra and Cucurbitaceous crops. Maintenance breeding of different kharif crops. Handling of germplasm and segregating populations by different methods like pedigree, bulk and single seed decent methods; Study of field techniques for seed production and hybrid seeds production in Kharifcrops; Estimation of heterosis, inbreeding depression and heritability; Layout of field experiments; Study of quality characters, donor parents for different characters; Visit to seed production plots; Visit to AICRP plots of different field crops.

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BAG-311: Entrepreneurship Development and Business

CO: COURSE OBJECTIVES

CO-1 Understanding the Basics of Entrepreneurship:

- To introduce students to the fundamental concepts of entrepreneurship, including the role of entrepreneurs in economic development.
- To explore entrepreneurial traits, skills, and competencies relevant to the agricultural sector.

CO-2 Promoting an Entrepreneurial Mindset:

- To instill a proactive approach to identifying opportunities and solving challenges within the agri-business and allied sectors.
- To encourage creativity, innovation, and risk-taking among students.

CO-3 Development of Managerial and Business Skills:

- To equip students with essential knowledge of business planning, financial management, and marketing strategies specific to agriculture.
- To familiarize students with legal, regulatory, and procedural aspects of starting and running a business.

CO-4 Exposure to Agripreneurship:

- To develop an understanding of agribusiness models, value chain development, and opportunities in modern agriculture, including organic farming, precision farming, and agro-processing.
- To explore rural entrepreneurship and cooperatives as pathways for sustainable development.
-

CO-5 Practical Application and Skill Development:

- To provide hands-on experience in creating business plans and feasibility reports tailored for agricultural ventures.
- To enhance leadership, decision-making, and problem-solving skills through case studies, field visits, and projects.

CO-6 Leveraging Technology and Innovation:

- To emphasize the role of digital technologies, e-commerce, and ICT tools in modern agricultural business development.
- To understand how technological advancements can drive profitability and efficiency in agriculture-related enterprises.

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Course Contents

Unit- I:

- Concept of Entrepreneur, Entrepreneurship Development, Characteristics of entrepreneurs; SWOT Analysis & achievement motivation,

Unit- II:

- Government policy and programs and institutions for entrepreneurship development, Impact of economic reforms on Agribusiness/ Agrienterprises,

Unit- III:

- Entrepreneurial Development Process; Business Leadership Skills; Developing organizational skill (controlling, supervising, problem solving, monitoring & evaluation), Developing Managerial skills,

Unit- IV:

- Business Leadership Skills (Communication, direction and motivation Skills), Problem solving skill, Supply chain management and Total quality management, Project Planning Formulation and report preparation; Financing of enterprise, Opportunities for agri- entrepreneurship and rural enterprise.

Practical:

Assessing entrepreneurial traits, problem solving skills, managerial skills and achievement motivation, exercise in creativity, time audit through planning, monitoring and supervision, identification and selection of business idea, preparation of business plan and proposal writing, visit to entrepreneurship development institute and entrepreneurs.

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BAG-311A: Communication & English Grammar-III

CO: COURSE OBJECTIVES

CO-1 Develop Advanced Communication Skills
Enhance students' ability to communicate effectively in academic, professional, and social settings, with a focus on oral and written English.

CO-2 Strengthen Grammatical Proficiency
Provide in-depth knowledge of advanced English grammar, including complex sentence structures, clauses, voice, and reported speech.

CO-3 Promote Critical Thinking and Expression
Foster critical thinking and the ability to express ideas clearly and concisely in English.

CO-4 Enhance Professional Writing Skills
Equip students with skills for writing formal letters, emails, reports, and proposals relevant to agricultural and allied sectors.

CO-5 Improve Presentation and Public Speaking Skills
Train students in delivering effective presentations and participating in group discussions and debates.

CO-6 Cultural and Contextual Understanding
Enable students to use language effectively in diverse cultural and professional contexts, especially in the agricultural field.

CO-7 Prepare for Competitive Exams
Provide a foundation for language proficiency in competitive exams and professional applications, such as research papers and project reports.

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Course Contents

Unit 1: Grammar and Composition

1. **Advanced Grammar:** Subject-Verb Agreement, Tenses and Voice (Active and Passive), Direct and Indirect Speech, Sentence Transformation (Simple, Complex, Compound), Phrasal Verbs and Idiomatic Expressions, Use of Articles and Prepositions, Correction of Common Errors in English
2. **Essay Writing:** Structure of an Essay (Introduction, Body, Conclusion)Descriptive, Narrative, Persuasive, and Expository Essays
3. **Comprehension:** Reading Skills, Understanding Context Summarization and Paraphrasing
4. **Letter Writing:** Formal and Informal Letters, Applications and Complaint Letters, Cover Letters and Resume

Unit 2: Communication Skills

1. **Basics of Communication:** Definition and Process of Communication, Verbal and Non-Verbal Communication, Barriers to Communication and Overcoming Them
2. **Speaking Skills:** Extempore Speaking, Group Discussions, Presentations and Public Speaking
3. **Listening Skills:** Techniques for Active Listening, Understanding Tone and Context in Conversations
4. **Writing for Communication:** Business Writing (Memos, Notices, Emails), Report Writing

Unit 3: Functional English

1. **Vocabulary Building:** Synonyms and Antonyms, One-Word Substitutes, Collocations and Word Formation
2. **Technical English:** Agriculture-Specific Terminology, Writing Research Proposals and Abstracts
3. **Reading and Interpretation:** Understanding Scientific Texts, Critical Analysis of Articles

Unit 4: Personality Development

1. **Soft Skills:** Confidence Building, Time Management, Leadership and Teamwork Skills
2. **Interview Preparation:** Resume Writing, Mock Interviews and Question Patterns
3. **Interpersonal Communication:** Building Relationships, Networking and Professional Etiquette.

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BAG-311B: Soft Skills-III

CO: COURSE OBJECTIVES

CO-1 Effective Communication: Develop advanced verbal and written communication skills tailored for professional and social contexts.

CO-2 Teamwork and Collaboration: Foster teamwork abilities, emphasizing the importance of collaboration in agricultural and multidisciplinary settings.

CO-3 Problem-Solving and Critical Thinking: Cultivate the ability to analyze problems, think critically, and develop innovative solutions in agriculture-related fields.

CO-4 Leadership and Interpersonal Skills: Build leadership qualities and interpersonal skills essential for managing teams and working effectively in diverse groups.

CO-5 Time and Stress Management: Equip students with strategies for effective time management and coping with stress to enhance productivity.

CO-6 Adaptability and Emotional Intelligence: Develop the ability to adapt to changing environments and improve emotional intelligence for better personal and professional relationships.

CO-7 Ethics and Professionalism: Instill a sense of ethics, integrity, and professionalism in communication and decision-making.

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Course Contents

Unit I

Personality Enrichment, Positive attitude, SWOT Analysis, Self-confidence and motivation, Inter-personal skills, projecting a positive social image.

Unit II

Time Management, Goal setting and prioritization, ABC Analysis—preparing a personal schedule, Short term and long term goals, Implementing goals.

Unit III

Leadership Skills, Planning, organizing, setting objectives and taking initiatives, Task list organization.

Unit IV

Persuading and negotiating, Team work, maintaining morale, Visualizing, inspiring others.

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BAG-311C: Life Management-III

CO: COURSE OBJECTIVES

CO-1 Holistic Development: To enable students to develop a balanced approach toward personal and professional life, fostering physical, mental, emotional, and spiritual well-being.

CO-2 Stress Management: To introduce students to practical techniques and strategies for managing stress and maintaining a positive outlook amidst challenges in academic and agricultural careers.

CO-3 Interpersonal Skills: To improve communication, teamwork, and leadership skills, ensuring effective collaboration in diverse environments.

CO-4 Time Management: To equip students with methods to prioritize tasks, manage time effectively, and increase productivity in their studies and work.

CO-5 Ethics and Values: To instill a strong foundation of ethical principles and values that guide responsible behavior in both personal and professional spheres.

CO-6 Decision-Making Skills: To develop analytical and critical thinking abilities to make informed and impactful decisions in various life situations.

CO-7 Resilience Building: To foster resilience and adaptability, enabling students to overcome challenges and excel in a dynamic agricultural industry.

CO-8 Goal Setting and Motivation: To assist students in setting realistic goals, maintaining focus, and staying motivated to achieve success in their academic and personal endeavors.

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Course Contents

Unit I

Basics of Life Style, Daily Routine, View of Life, Goal and Ideal your life, Self-Evaluation

Unit II

Process of life Style Management, Spiritual practice-(Upasana/japa/meditation), Creative potentials & positive use of negativity,

Unit III

Personality Skills, Creative Reading and Writing Skills, Communication Skills-Self-Management Skills

Unit IV

Art of Positive Thinking, Environmental Ethics, Behavior skills and relationship, Stress (causes, effects & management)

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BAG-313: Geo-informatics, Nano-technology and Precision Farming

CO: COURSE OBJECTIVES

CO-1 Introduction to Geo-Informatics:

- To develop an understanding of the principles and applications of Geographic Information Systems (GIS) and Remote Sensing in agriculture.
- To enable students to analyze spatial data and apply mapping techniques for agricultural planning and resource management.

CO-2 Fundamentals of Nano-Technology in Agriculture:

- To introduce the concepts of nanotechnology and its potential applications in improving agricultural productivity and sustainability.
- To familiarize students with nano-based tools, devices, and materials for soil and water management, pest control, and crop improvement.

CO-3 Precision Farming Concepts:

- To provide insights into the principles and practices of precision farming for efficient resource utilization.
- To train students in the use of modern tools such as sensors, drones, and automated systems for real-time monitoring and decision-making in agriculture.

CO-4 Integration of Technologies:

- To explore the combined use of geo-informatics, nanotechnology, and precision farming to address challenges in modern agriculture.
- To enhance skills in data-driven decision-making and sustainable agricultural practices.

CO-5 Sustainability and Innovation:

- To promote the adoption of innovative and sustainable technologies to improve agricultural productivity while minimizing environmental impacts.
- To encourage critical thinking and research-oriented approaches in leveraging emerging technologies for rural and agricultural development.

CO-6 Hands-on Experience:

- To provide practical exposure to GIS software, remote sensing tools, nano-materials, and precision agriculture equipment.

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Course Contents

Unit- I:

- Precision agriculture: concepts and techniques; their issues and concerns for Indian agriculture; Geo-informatics- definition, concepts, tool and techniques; their use in Precision Agriculture.

Unit- II:

- Crop discrimination and Yield monitoring, soil mapping; fertilizer recommendation using geospatial technologies; Spatial data and their management in GIS; Remote sensing concepts and application in agriculture; Image processing and interpretation;

Unit- III:

- Global positioning system (GPS), components and its functions; Introduction to crop Simulation Models and their uses for optimization of Agricultural Inputs; STCR approach for precision agriculture;

Unit- IV:

- Nanotechnology, definition, concepts and techniques, brief introduction about nanoscale effects, nano-particles, nano-pesticides, nano-fertilizers, nano-sensors, Use of nanotechnology in seed, water, fertilizer, plant protection for scaling-up farm productivity.

Practical:

Introduction to GIS software, spatial data creation and editing. Introduction to image processing software. Visual and digital interpretation of remote sensing images. Generation of spectral

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BAG-315 Practical Crop Production – I (Kharif crops)

CO: COURSE OBJECTIVES

CO-1 Understanding the Kharif Cropping System

- To provide students with in-depth knowledge of the climatic, soil, and water requirements of major Kharif crops.
- To familiarize students with the cropping patterns and production constraints of Kharif season crops.

CO-2 Practical Crop Management

- To develop skills in the preparation of field operations, including land preparation, sowing, irrigation, and weed management.
- To impart knowledge about integrated nutrient, pest, and disease management practices for Kharif crops.

CO-3 Seed and Input Management

- To train students in the selection, storage, and treatment of quality seeds.
- To enhance understanding of fertilizer application methods, organic manures, and bio-fertilizers for sustainable crop production.

CO-4 Crop Monitoring and Evaluation

- To enable students to monitor crop growth, identify stress conditions, and take corrective measures.
- To train students in yield estimation, harvesting techniques, and post-harvest handling.

CO-5 Economic and Sustainable Practices

- To teach cost-effective and sustainable agricultural practices for optimizing the productivity of Kharif crops.
- To create awareness of climate-smart agriculture and water-efficient practices.

CO-6 Hands-On Experience

- To provide hands-on experience in the cultivation of major Kharif crops like paddy, maize, sorghum, pearl millet, groundnut, soybean, cotton, etc.
- To involve students in fieldwork, covering all aspects of crop production from sowing to harvesting.

CO-7 Practical Record Maintenance

- To ensure students can maintain detailed field records, analyze data, and prepare reports on crop performance.

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Course Contents

Practical:

Crop planning, raising field crops in multiple cropping systems: Field preparation, seed, treatment, nursery raising, sowing, nutrient, water and weed management and management of insect-pests diseases of crops, harvesting, threshing, drying winnowing, storage and marketing of produce. The emphasis will be given to seed production, mechanization, resource conservation and integrated nutrient, insect-pest and disease management technologies. Preparation of balance sheet including cost of cultivation, net returns per student as well as per team of 8-10 students.

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BAG-317 Intellectual Property Rights

CO: COURSE OBJECTIVES

CO-1 To Understand the Fundamentals of IPR

- To introduce students to the basic concepts, types, and significance of Intellectual Property Rights (IPR) in agriculture and related fields.

CO-2 To Explore Legal and Policy Frameworks

- To familiarize students with national and international legal frameworks governing intellectual property, such as patents, trademarks, copyrights, and plant breeders' rights, with specific relevance to agriculture.

CO-3 To Encourage Innovation and Entrepreneurship

- To promote awareness of the role of IPR in fostering innovation, research, and development, encouraging students to explore entrepreneurial opportunities in agriculture.

CO-4 To Address Ethical and Social Issues

- To develop an understanding of the ethical, social, and environmental implications of IPR in agriculture, including issues of biopiracy, traditional knowledge, and biodiversity conservation.

CO-5 To Equip Students with Practical Knowledge

- To provide students with knowledge of procedures for patent filing, geographical indications, copyrights, and plant variety protection, equipping them with skills to apply IPR concepts in agricultural practice.

CO-6 To Prepare for Future Challenges

- To prepare students to address future challenges related to technology transfer, Commercialization, and the global competitiveness of agricultural products.

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Course Contents

Unit- I:

- Introduction and meaning of intellectual property, brief introduction to GATT, WTO, TRIPs and WIPO, Treaties for IPR protection: Madrid protocol, Berne Convention, Budapest treaty, etc.

Unit- II:

- Types of Intellectual Property and legislations covering IPR in India:-Patents, Copyrights,Trademark, Industrial design, Geographical indications, Integrated circuits, Trade secrets. Patents Act 1970 and Patent system in India, patentability, process and product patent, filing of patent, patent specification, patent claims, Patent opposition and revocation, infringement, Compulsory licensing, Patent Cooperation Treaty, Patent search and patent database.

Unit- III:

- Origin and history including a brief introduction to UPOV for protection of plant varieties, Protection of plant varieties under UPOV and PPV&FR Act of India, Plant breeders rights, Registration of plant varieties under PPV&FR Act 2001, breeders, researcher and farmers rights. Traditional knowledge-meaning and rights of TK holders.

Unit- IV:

- Convention on Biological Diversity, International treaty on plant genetic resources for food and agriculture (ITPGRFA). Indian Biological Diversity Act, 2002 and its salient features, access and benefit sharing.

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BAG-317A: Research Methodology

CO: COURSE OBJECTIVES

CO-1 Understanding Research Fundamentals:

- To develop a clear understanding of the principles, concepts, and importance of research in agriculture.
- To familiarize students with the types, objectives, and methodologies of agricultural research.

CO-2 Problem Identification and Formulation:

- To enable students to identify, define, and articulate research problems specific to agricultural sciences.
- To guide students in framing research hypotheses and objectives.

CO-3 Research Design and Methodology:

- To introduce students to various research designs, sampling techniques, and data collection methods suited to agricultural studies.
- To train students in the preparation and execution of research plans.

CO-4 Data Analysis and Interpretation:

- To teach students basic statistical tools and techniques for data analysis in agricultural research.
- To guide students in interpreting research results and deriving meaningful conclusions.

CO-5 Scientific Writing and Reporting:

- To develop skills for writing research proposals, reports, and scientific papers in the field of agriculture.
- To train students in effective communication and presentation of research findings.

CO-6 Application of Research Tools:

- To familiarize students with modern tools and software used in agricultural research.
- To emphasize ethical practices in conducting research and handling data.

CO-7 Problem-Solving and Decision-Making:

- To cultivate critical thinking and analytical skills necessary for addressing real-world agricultural challenges through research.

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Course Contents

Unit I

Introduction to Research: The concept of research, characteristics of good research, Application of Research, Meaning and sources of Research problem, characteristics of good Research problem, Research process, outcomes, application of Research, Meaning and types of Research hypothesis, Importance of Review of Literature, Organizing the Review of Literature.

Unit II

Types of Research: Types of research, pure (basic, fundamental) and applied research, qualitative and quantitative. Research Design: Meaning, need, types of research design – Exploratory, Descriptive, Casual research Design, Components of research design, and Features of good Research design. Experiments, surveys and case study Research design

Unit III

Sampling, Data Collection and analysis: Types and sources of data – Primary and secondary, Methods of collecting data, Concept of sampling and sampling methods – sampling frame, sample, characteristics of good sample, simple random sampling, purposive sampling, convenience sampling, snowball sampling, classification and tabulation of data, graphical representation of data, graphs and charts – Histograms, frequency polygon and frequency curves, bell shaped curve and its properties. Statistical Methods for Data Analysis: Applications of Statistics in Research, measures of central tendency and dispersion

Unit IV

Research Report: Research report and its structure, journal articles – Components of journal article. Explanation of various components. Structure of an abstract and keywords. Thesis and dissertations. Components of thesis and dissertations. Referencing styles and bibliography. Ethics in Research - Plagiarism - Definition, different forms, consequences, unintentional plagiarism, copyright infringement, collaborative work. Qualities of good Researcher

Unit V

ICT Tools for Research : Role of computers in research, maintenance of data using software such as Mendeley, Endnote, Tabulation and graphical presentation of research data and software tools. Web search: Introduction to Internet, use of Internet and WWW, using search engines and advanced search tools.

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BAG-317B: Publication Ethics and Emerging trends in Research

CO: COURSE OBJECTIVES

CO-1 Understanding Research Fundamentals:

- To develop a clear understanding of the principles, concepts, and importance of research in agriculture.
- To familiarize students with the types, objectives, and methodologies of agricultural research.

CO-2 Problem Identification and Formulation:

- To enable students to identify, define, and articulate research problems specific to agricultural sciences.
- To guide students in framing research hypotheses and objectives.

CO-3 Research Design and Methodology:

- To introduce students to various research designs, sampling techniques, and data collection methods suited to agricultural studies.
- To train students in the preparation and execution of research plans.

CO-4 Data Analysis and Interpretation:

- To teach students basic statistical tools and techniques for data analysis in agricultural research.
- To guide students in interpreting research results and deriving meaningful conclusions.

CO-5 Scientific Writing and Reporting:

- To develop skills for writing research proposals, reports, and scientific papers in the field of agriculture.
- To train students in effective communication and presentation of research findings.

CO-6 Application of Research Tools:

- To familiarize students with modern tools and software used in agricultural research.
- To emphasize ethical practices in conducting research and handling data.

CO-7 Problem-Solving and Decision-Making:

- To cultivate critical thinking and analytical skills necessary for addressing real-world agricultural challenges through research.

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Course Contents

Unit I

Introduction to Research Philosophy: Concept; Definitions; Nature & Scope, General Characteristics of a value-based Research, Axiological approach, Research Ethics; Definition; Moral Philosophy; Nature of Moral Judgments, Political Issues in Research, Ethical Norms & Responses, Enhancing research interests, Research Collaboration & Research Recognition, Ethical guidelines in field research, Concealed Information & Extent of Respondents' rights.

Unit II

Elements of Research Ethics & Types of Research, Mixed Methods in Applied & Action Research, Internet search, deep web search, Authenticated v. Fake information, Research Integrity & Academic Honesty in Interdisciplinary Research, Redundant Publications; Duplicate & Overlapping Publications; Salami Slicing, Selective Reporting and Misrepresentation of Data.

Unit III

Publication Ethics: Introduction, Definition, & Importance, Scientific Research Misconduct; Falsification, Fabrication & Plagiarism/Self-plagiarism, Kinds & Remedies, Intellectual Property; Reasonable & Fair Use; Copyright and related IPR Issues, Violation of Publication Ethics; Authorship/Co-authorship, Joint research/ Contributorship & Patentable Inventions- Extent of Rights & Claims, Best Practices/Standards Setting Initiatives and guidelines; COPE, WAME, UGC-CARE list etc. Publication Misconduct; Concept; Definition & Kinds of Problems & Unethical Behaviour, Identification of Publication Misconduct, Complaints & Appeal Provisions.

Unit IV

Open Access Publications and Initiatives, Creative Common License, Predatory Publishers & Journals, Reference Management & Referencing Standards in Open Access Publishing iv. SHERPA/RoMEO; Online Resources for Publisher Copyright & Self-archiving Policies, Data Management, Data Sharing Techniques, Data Reuse & Data Citation, Software Tool to identify Predatory Publications developed by SPPU, Journal Finder/ Journal suggestions tools viz., JANE, Elsevier Journal Finder, Springer Journal Suggester etc.

Unit V

Subject specific Ethical Issues, FFP, Authorship, Conflict of Interests; Copyright/Plagiarism Issues, Sharing of data collected for a research (confidentiality, reuse, dissemination or republishing), Consent in publishing/ using different kinds of data and Simultaneous Submission, Complaints & Appeals: Case Studies/Examples of Publication Frauds from India & abroad, Research Literacy & Advocacy; Digital Humanities, Use of Plagiarism Software like Turnitin, Urkund & other Open Source Software Tools.

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BAG-319: Landscaping

CO: COURSE OBJECTIVE

CO-1 Aesthetic Enhancement: Create visually appealing spaces through the use of plants, structures, and other landscape elements.

CO-2 Functional Use: Optimize outdoor spaces for practical purposes, such as recreation, dining, walking paths, or seating areas.

CO-3 Environmental Sustainability: Promote ecological balance by incorporating native plants, conserving water, and providing habitats for wildlife.

CO-4 Climate Moderation: Use landscaping elements like trees and shrubs to regulate temperature, reduce heat, and provide shade or windbreaks.

CO-5 Erosion and Soil Protection: Prevent soil erosion and degradation by using ground covers, terraces, and retaining walls.

CO-6 Increase Property Value: Enhance the market value of a property through thoughtful and well-maintained landscaping.

CO-7 Improved Air and Noise Quality: Use plants to purify the air and act as natural sound barriers to reduce noise pollution.

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Course Contents

Unit- I:

- Importance and scope of landscaping. Principles of landscaping, garden styles and types, terrace gardening, vertical gardening, garden components, adornments, lawn making, rockery, water garden, walk-paths, bridges, other constructed features etc. gardens for special purposes.

Unit- II:

- Trees: selection, propagation, planting schemes, canopy management, shrubs and herbaceous perennials: selection, propagation, planting schemes, architecture. Climber and creepers: importance, selection, propagation, planting,

Unit- III:

- Annuals: selection, propagation, planting scheme, Other garden plants: palms, ferns, grasses and cacti succulents. Pot plants: selection, arrangement, management.

Unit- IV:

- Bio-aesthetic planning: definition, need, planning; landscaping of urban and rural areas, Peri-urban landscaping, Landscaping of schools, public places like bus station, railway station, townships, river banks, hospitals, play grounds, airports, industries, institutions. Bonsai: principles and management, lawn: establishment andmaintenance. CAD application

Practical:

Identification of trees, shrubs, annuals, pot plants; Propagation of trees, shrubs and annuals, care and maintenance of plants, potting and repotting, identification of tools and implements used in landscape design, training and pruning of plants for special effects, lawn establishment and maintenance, layout of formal gardens, informal gardens, special type of gardens (sunken garden, terrace garden, rock garden) and designing of conservatory and lathehouse. Use of computer software, visit to important gardens/ parks/ institutes.

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B.Sc. (Ag.) VI Semester

BAG-302: Rainfed Agriculture & Watershed Management

CO: COURSE OBJECTIVES

CO-01 Understanding Rainfed Agriculture Systems: To comprehend the characteristics, challenges, and potential of agricultural systems in rainfed areas and their role in sustainable food production.

CO-02 Enhancing Water Use Efficiency: To study techniques for optimizing water use in rainfed agriculture through soil moisture conservation, efficient irrigation methods, and crop selection.

CO-03 Soil and Water Conservation: To develop knowledge of soil erosion control, water harvesting techniques, and strategies for enhancing soil fertility in rainfed regions.

CO- 04 Climate Resilience in Rainfed Areas: To learn about the impacts of climate change on rainfed agriculture and strategies to build resilience through adaptive cropping systems and agroforestry.

CO- 05 Integrated Watershed Development: To study the integration of agricultural productivity, water resource development, and ecological balance in watershed management projects.

CO- 06 Policy and Socioeconomic Aspects: To analyze policies, community participation, and economic strategies for the sustainable development of rainfed and watershed-based agriculture.

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Course Contents

Unit- I:

- Rainfed agriculture: Introduction, types, History of rainfed agriculture and watershed in India;

Unit- II:

- Problems and prospects of rainfed agriculture in India ; Soil and climatic conditions prevalent in rainfed areas; Soil and water conservation techniques, Drought: types, effect of water deficit on physio-morphological characteristics of the plants,

Unit- III:

- Crop adaptation and mitigation to drought; Water harvesting: importance, its techniques, Efficient utilization of water through soil and crop management practices,

Unit- IV:

- Management of crops in rainfed areas, Contingent crop planning for aberrant weather conditions, Concept, objective, principles and components of watershed management, factors affecting watershed management.

Practical:

Studies on climate classification, studies on rainfall pattern in rainfed areas of the country and pattern of onset and withdrawal of monsoons. Studies on cropping pattern of different rainfed areas in the country and demarcation of rainfed area on map of India. Interpretation of meteorological data and scheduling of supplemental irrigation on the basis of evapo-transpiration demand of crops.Critical analysis of rainfall and possible drought period in the country, effective rainfall and its calculation. Studies on cultural practices for mitigating moisture stress. Characterization and delineation of model watershed. Field demonstration on soil & moisture conservation measures. Field demonstration on construction of water harvesting structures. Visit to rainfed research station/watershed.

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BAG-304: Protected Cultivation and Secondary Agriculture

CO: COURSE OBJECTIVES

CO- 1 Understand the Principles of Protected Cultivation: Equip students with knowledge about the fundamentals of protected cultivation, including greenhouse design, climate control systems, and production technologies.

CO- 2 Learn Modern Cultivation Practices: Introduce advanced cultivation techniques like hydroponics, aeroponics, and vertical farming to optimize crop yields and resource efficiency.

CO- 3 Develop Skills in Environmental Control: Teach methods for managing temperature, humidity, light, and ventilation in controlled environments to enhance crop quality and productivity.

CO- 4 Promote Resource Efficiency: Emphasize sustainable practices, including water-use efficiency, integrated pest management, and energy conservation in protected farming systems.

CO- 5 Understand the Role of Secondary Agriculture: Highlight the importance of post-harvest processing, value addition, and storage techniques in reducing agricultural losses and increasing farmer income.

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Course Contents

Unit- I:

- Green house technology: Introduction, Types of Green Houses; Plant response to Green house environment, Planning and design of greenhouses,

Unit- II:

- Design criteria of green house for cooling and heating purposes. Green house equipments, materials of construction for traditional and low cost green houses. Irrigation systems used in greenhouses, typical applications, passive solar green house, hot air green house heating systems, green house drying. Cost estimation and economic analysis.

Unit- III:

- Important Engineering properties such as physical, thermal and aero & hydrodynamic properties of cereals, pulses and oilseed, their application in PHT equipment design and operation. Drying and dehydration; moisture measurement, EMC, drying theory, various drying method, commercial grain dryer (deep bed dryer, flat bed dryer, tray dryer, fluidized bed dryer, recirculatory dryer and solar dryer).

Unit- IV:

- Material handling equipment; conveyer and elevators, their principle, working and selection.

Practical:

Study of different type of green houses based on shape. Determine the rate of air exchange in an active summer winter cooling system. Determination of drying rate of agricultural products inside green house. Study of green house equipments. Visit to various Post Harvest Laboratories. Determination of Moisture content of various grains by oven drying & infrared moisture methods. Determination of engineering properties (shape and size, bulk density and porosity of biomaterials).Determination of Moisture content of various grains by moisture meter. Field visit to seed processing plant.

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BAG-306: Diseases of Field and Horticultural Crops and their Management-II

CO: COURSE OBJECTIVES

CO- 1 Understand Major Crop Diseases: To provide an in-depth understanding of the major diseases affecting field and horticultural crops, including their etiology, symptoms, and epidemiology.

CO- 2 Identify Disease Symptoms: To equip students with the skills to accurately identify diseases in crops through field observations and laboratory diagnostics.

CO- 3 Analyze Disease Dynamics: To study the factors influencing disease development and spread, including climatic, biological, and cultural conditions.

CO- 4 Apply Management Strategies: To introduce integrated disease management strategies, including cultural, biological, chemical, and genetic approaches.

CO- 5 Evaluate Disease Resistance: To understand the role of plant resistance and breeding for disease-resistant crop varieties.

CO- 6 Implement Disease Monitoring Tools: To teach techniques for monitoring disease outbreaks and predicting potential epidemics using modern tools and technologies.

CO- 7 Promote Sustainable Practices: To emphasize the importance of eco-friendly and sustainable disease management practices to minimize environmental impact and ensure long-term crop health.

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Course Contents

Unit- I:

- Symptoms, etiology, disease cycle and management of following diseases: FieldCrops: Wheat: rusts, loose smut, karnal bunt, powdery mildew, alternaria blight, and ear cockle; Sugarcane: red rot, smut, wilt, grassy shoot, ratoon stunting and PokkahBoeng; Sunflower: Sclerotinia stem rot and Alternaria blight;

Unit- II:

- Mustard: Alternaria blight, white rust, downy mildew and Sclerotinia stem rot; Gram: wilt, grey mould and Ascochyta blight; Lentil: rust and wilt; Cotton: anthracnose, vascular wilt, and black arm; Pea: downy mildew, powdery mildew and rust.

Unit- III:

- Horticultural Crops: Mango: anthracnose, malformation, bacterial blight and powdery mildew; Citrus: canker and gummosis; Grape vine: downy mildew, Powdery mildew and anthracnose; Apple: scab, powdery mildew, fire blight and crown gall; Peach: leaf curl.

Unit- IV:

- Strawberry: leaf spot , Potato: early and late blight, black scurf, leaf roll, and mosaic; Cucurbits: downy mildew, powdery mildew, wilt; Onion and garlic: purple blotch, and Stemphylium blight; Chillies: anthracnose and fruit rot, wilt and leaf curl; Turmeric: leaf spot Coriander: stem gall, Marigold: Botrytis blight; Rose: dieback, powdery mildew and black leaf spot.

Practical:
Identification and histopathological studies of selected diseases of field and horticultural crops covered in theory. Field visit for the diagnosis of field problems. Collection andpreservation of plant diseased specimens for herbarium.

Note: Students should submit 50 pressed and well-mounted specimens.

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BAG-308: Post-harvest Management and Value Addition of Fruits and Vegetables

CO: COURSE OBJECTIVES

CO- 1 Understand Post-Harvest Physiology: To explain the physiological and biochemical changes occurring in fruits and vegetables after harvest, including ripening, senescence, and spoilage.

CO- 2 Minimize Post-Harvest Losses: To identify factors contributing to post-harvest losses and develop strategies to minimize these losses during handling, storage, and transportation.

CO- 3 Learn Preservation Techniques: To study various preservation methods, such as refrigeration, canning, drying, and freezing, to extend the shelf life of fruits and vegetables.

CO- 4 Enhance Value Addition Skills: To explore processes for transforming fresh produce into value-added products such as juices, jams, pickles, and dried snacks.

CO- 5 Understand Quality Standards: To examine quality assessment techniques and standards for fruits and vegetables to ensure food safety and market acceptability.

CO- 6 Develop Packaging and Storage Solutions: To design appropriate packaging and storage systems that maintain the quality and nutritional value of fruits and vegetables.

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Course Contents

Unit- I:

- Importance of post-harvest processing of fruits and vegetables, extent and possible causes of post-harvest losses;

Unit- II:

- Pre-harvest factors affecting postharvest quality, maturity, ripening and changes occurring during ripening; Respiration and factors affecting respiration rate;Harvesting and field handling; Storage (ZECC, cold storage, CA, MA, and hypobaric);

Unit- III:

- Value addition concept; Principles and methods of preservation; Intermediate moisture food- Jam, jelly, marmalade, preserve, candy – Concepts and Standards;

Unit- IV:

- Fermented and non-fermented beverages. Tomato products- Concepts and Standards; Drying/ Dehydration of fruits and vegetables – Concept and methods, osmotic drying. Canning — Concepts and Standards, packaging of products.

Practical:

Applications of different types of packaging, containers for shelf life extension. Effect of temperature on shelf life and quality of produce. Demonstration of chilling and freezing injury in vegetables and fruits. Extraction and preservation of pulps and juices. Preparation of jam, jelly, RTS, nectar, squash, osmotically dried products, fruit bar and candy and tomato products, canned products. Quality evaluation of products -- physico-chemical and sensory. Visit to processing unit/ industry.

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BAG-310: Management of Beneficial Insects

CO: COURSE OBJECTIVES

CO-1 Identify Beneficial Insects: Develop the ability to recognize and classify key beneficial insect species, including pollinators, predators, and parasitoids, based on their roles in ecosystems and agriculture.

CO-2 Understand Ecological Roles: Gain comprehensive knowledge about the ecological functions of beneficial insects, including their contributions to pollination, pest control, and biodiversity.

CO-3 Explore Habitat Requirements: Learn to assess the habitat needs of beneficial insects and understand how to create or manage environments that support their survival and effectiveness.

CO-4 Implement Conservation Strategies: Develop strategies for conserving and enhancing populations of beneficial insects through sustainable practices such as integrated pest management (IPM) and agroecological approaches.

CO-5 Evaluate Environmental Impact: Analyze the effects of agricultural practices, pesticide use, and climate change on beneficial insect populations and their ecological functions.

CO-6 Promote Sustainable Agriculture: Understand the integration of beneficial insects into sustainable agricultural systems to improve crop yields, reduce chemical inputs, and foster environmental health.

CO-7 Develop Management Plans: Design and implement practical management plans for promoting beneficial insects in agricultural and natural ecosystems, tailored to specific regions or crop systems.

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Course Contents

Unit- I:

- Importance of beneficial Insects, Beekeeping and pollinators, bee biology, commercial methods of rearing, equipment used, seasonal management, bee enemies and disease. Bee pasturage, bee foraging and communication. Insect pests and diseases of honey bee. Role of pollinators in cross pollinated plants.

Unit- II:

- Types of silkworm, voltinism and biology of silkworm. Mulberry cultivation, mulberry varieties and methods of harvesting and preservation of leaves. Rearing, mounting and harvesting of cocoons. Pest and diseases of silkworm, management, rearing appliances of mulberry silkworm and methods of disinfection.

Unit- III:

- Species of lac insect, morphology, biology, host plant, lac production – seed lac, button lac, shellac, lac- products. Identification of major parasitoids and predators commonly being used in biological control.

Unit- IV:

- Insect orders bearing predators and parasitoids used in pest control and their mass multiplication techniques. Important species of pollinator, weed killers and scavengers with their importance.

Practical:

Honey bee species, castes of bees. Beekeeping appliances and seasonal management, bee enemies and disease. Bee pasturage, bee foraging and communication. Types of silkworm, voltinism and biology of silkworm. Mulberry cultivation, mulberry varieties and methods of harvesting and preservation of leaves. Species of lac insect, host plant identification. Identification of other important pollinators, weed killers and scavengers. Visit to research and training institutions devoted to beekeeping, sericulture, lac culture and natural enemies. Identification and techniques for mass multiplication of natural enemies.

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BAG-312: Crop Improvement-II (Rabi crops)

CO: COURSE OBJECTIVES

CO-1 Understanding the Importance of Rabi Crops: Explain the economic and nutritional significance of major Rabi crops in agriculture and their role in ensuring food security.

CO-2 Exploring Crop Breeding Techniques: Study advanced breeding methods, including hybridization, mutation breeding, and biotechnological approaches, for the genetic improvement of Rabi crops.

CO-3 Enhancing Stress Tolerance: Develop strategies to improve Rabi crops' tolerance to abiotic stresses like drought, frost, and nutrient deficiencies, as well as biotic stresses such as pests and diseases.

CO-4 Focusing on Yield and Quality Traits: Improve the productivity, nutritional quality, and marketability of Rabi crops through targeted breeding and selection techniques.

CO-5 Integrating Genomics and Biotechnology: Apply molecular biology tools, such as marker-assisted selection (MAS) and genetic engineering, for faster and more precise crop improvement.

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Course Contents

Unit- I:

- Centers of origin, distribution of species, wild relatives in different cereals; pulses; oilseeds; fodder crops and cash crops; vegetable and horticultural crops;

Unit- II:

- Plant genetic resources, its utilization and conservation; study of genetics of qualitative and quantitative characters;

Unit- III:

- Major breeding objectives and procedures including conventional and modern innovative approaches for development of hybrids and varieties for yield, adaptability, stability, abiotic and biotic stress tolerance and quality (physical, chemical, nutritional);

Unit- IV:

- Hybrid seed production technology of rabicrops. Ideotype concept and climate resilient crop varieties for future.

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Course Contents

Practical:

Floral biology, emasculation and hybridization techniques in different crop species namely Wheat, Oat, Barley, Chickpea, Lentil, Field pea, Rajma, Horse gram, Rapeseed Mustard, Sunflower, Safflower, Potato, Berseem. Sugarcane, Tomato, Chilli, Onion; Handling of germplasm and segregating populations by different methods like pedigree, bulk and single seed decent methods; Study of field techniques for seed production and hybrid seeds production in Rabi crops; Estimation of heterosis, inbreeding depression and heritability; Layout of field experiments; Study of quality characters, study of donor parents for different characters; Visit to seed production plots; Visit to AICRP plots of different field crops

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BAG-314: Practical Crop Production –II (Rabi crops)

CO: COURSE OBJECTIVES

CO-1 Understand Rabi Crop Management: Develop a comprehensive understanding of the principles and practices involved in the cultivation of major Rabi crops, including wheat, barley, mustard, chickpea, and lentils.

CO-2 Learn Soil Preparation Techniques: Gain practical knowledge of soil preparation, nutrient management, and seedbed preparation techniques suitable for Rabi crop cultivation.

CO-3 Master Sowing Practices: Acquire skills in selecting, treating, and sowing seeds at appropriate times and methods to ensure optimal germination and yield.

CO-4 Implement Irrigation Strategies: Learn the principles of water management and irrigation scheduling specific to the requirements of Rabi crops.

CO-5 Apply Pest and Weed Management: Develop proficiency in identifying and managing pests, diseases, and weeds that affect Rabi crops using integrated pest management (IPM) strategies.

CO-6 Practice Harvesting and Post-Harvest Techniques: Understand the methods of harvesting, threshing, storage, and quality preservation of Rabi crops to minimize losses and maintain market standards.

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Course Contents

Practical:

Crop planning, raising field crops in multiple cropping systems: Field preparation, seed, treatment, nursery raising, sowing, nutrient, water and weed management and management of insect-pests diseases of crops, harvesting, threshing, drying winnowing, storage and marketing of produce. The emphasis will be given to seed production, mechanization, resource conservation and integrated nutrient, insect-pest and disease management technologies. Preparation of balance sheet including cost of cultivation, net returns per student as well as per team of 8-10 students.

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BAG-316: Principles of Organic Farming

CO: COURSE OBJECTIVES

CO-1 Understand the Fundamentals of Organic Farming: Learn the basic principles, philosophy, and historical development of organic agriculture.

CO-2 Recognize the Importance of Soil Health: Study the role of soil fertility and health in organic farming, including practices like composting, crop rotation, and cover cropping.

CO-3 Explore Organic Farming Practices: Examine the techniques used in organic farming, such as natural pest management, weed control, and water conservation methods.

CO-4 Analyze Certification Standards: Understand the rules, regulations, and certification processes for organic farming at national and international levels.

CO-5 Promote Environmental Sustainability: Assess how organic farming contributes to environmental sustainability by reducing chemical inputs and promoting biodiversity.

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Course Contents

Unit- I:

- Organic farming, principles and its scope in India; Initiatives taken by Government (central/ state), NGOs and other organizations for promotion of organic agriculture; Organic ecosystem and their concepts;

Unit- II:

- Organic nutrient resources and its fortification; Restrictions to nutrient use in organic farming; Choice of crops and varieties in organic farming;

Unit- III:

- Fundamentals of insect, pest, disease and weed management under organic mode of production; Operational structure of NPOP;

Unit- IV:

- Certification process and standards of organic farming; Processing, leveling,economic considerations and viability, marketing and export potential of organicproducts.

Practical:

Visit of organic farms to study the various components and their utilization; Preparation of enrich compost, vermin-compost, bio-fertilizers/bio-inoculants and their quality analysis; Indigenous technology knowledge (ITK) for nutrient, insect, pest disease and weed management; Cost of organic production system; Post harvest management; Quality aspect, grading, packaging and handling.

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BAG-318: Farm Management, Production & Resource Economics

CO: COURSE OBJECTIVES

CO-1 Understand the Principles of Farm Management: Equip students with knowledge of the core principles of managing a farm, including planning, organizing, directing, and controlling agricultural operations.

CO-2 Analyze Agricultural Production Systems: Develop the ability to assess and optimize production systems to improve efficiency and productivity in farm enterprises.

CO-3 Apply Economic Principles to Resource Allocation: Train students to apply economic concepts to allocate resources effectively, ensuring sustainability and profitability in agriculture.

CO-4 Evaluate Financial Performance of Farms: Enable students to use financial tools and techniques to evaluate the profitability, liquidity, and solvency of farm businesses.

CO-5 Understand Risk and Uncertainty in Agriculture: Teach strategies to manage risks and uncertainties in farming caused by market fluctuations, climate variability, and policy changes.

CO-6 Optimize Resource Use for Sustainable Farming: Instill knowledge about sustainable use of land, labor, capital, and technology to achieve long-term agricultural viability.

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Course Contents

Unit- I:

- Meaning and concept of farm management, objectives and relationship with other sciences. Meaning and definition of farms, its types and characteristics, factor determining types and size of farms. Principles of farm management: concept of production function and its type, use of production function in decision-making on a farm, factor-product, factor-factor and product- product relationship, law of equi-marginal/or principles of opportunity cost and law of comparative advantage.

Unit- II:

- Meaning and concept of cost, types of costs and their interrelationship, importance of cost in managing farm business and estimation of gross farm income, net farm income, family labour income and farm business income. Farm business analysis: meaning and concept of farm income and profitability, technical and economic efficiency measures in crop and livestock enterprises.

Unit- III:

- Importance of farm records and accounts in managing a farm, various types of farm records needed to maintain on farm, farm inventory, balance sheet, profit and loss accounts. Meaning and importance of farm planning and budgeting, partial and complete budgeting, steps in farm planning and budgeting-linear programming, appraisal of farm resources, selection of crops and livestock's enterprises. Concept of risk and uncertainty occurs in agriculture production, nature and sources of risks and its management strategies, Crop/livestock/machinery insurance

Unit- IV:

- Weather based crop insurance, features, determinants of compensation. Concepts of resource economics, differences between NRE and agricultural economics, unique properties of natural resources. Positive and negative externalities in agriculture, Inefficiency and welfare loss, solutions, Important issues in economics andmanagement of common property resources of land, water, pasture and forest resources etc.

Practical:

Preparation of farm layout. Determination of cost of fencing of a farm. Computation of depreciation cost of farm assets. Application of equi-marginal returns/opportunity cost principle in allocation of farm resources. Determination of most profitable level of inputs use in a farm production process. Determination of least cost combination of inputs. Selection of most profitable enterprise combination. Application of cost principles including CACP concepts in the estimation of cost of crop and livestock enterprises. Preparation of farm plan and budget, farm records and accounts and profit & loss accounts. Collection and analysis of data on various resources in India.

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BAG-320: Principles of Food Science and Nutrition

CO: COURSE OBJECTIVES

CO-1 Understand the Fundamentals of Food Science: Explain the physical, chemical, and biological principles underlying food systems and their application in food production and processing.

CO-2 Explore Nutritional Requirements: Analyze the role of essential nutrients in human health and their impact on growth, development, and disease prevention.

CO-3 Evaluate Food Quality and Safety: Assess factors that affect food quality, safety, and shelf life, including food preservation techniques and contamination risks.

CO-4 Investigate Food Processing Methods: Identify and describe common food processing methods and their influence on nutritional value, sensory properties, and food functionality.

CO-5 Examine the Role of Food in Society: Discuss the cultural, social, and economic factors that influence food choices and dietary habits globally.

CO-6 Apply Principles of Nutrition: Design balanced diets and recommend nutritional interventions based on scientific evidence to address specific health conditions or goals.

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Course Contents

Unit- I:

- Concepts of Food Science (definitions, measurements, density, phase change, pH, osmosis, surface tension, colloidal systems etc.);

Unit- II:

- Food composition and chemistry (water, carbohydrates, proteins, fats, vitamins, minerals, flavours, colours, miscellaneous bioactives, important reactions);

Unit- III:

- Food microbiology (bacteria, yeast, moulds, spoilage of fresh & processed foods, Production of fermented foods);

Unit- IV:

- Principles and methods of food processing and preservation (use of heat, low temperature, chemicals, radiation, drying etc.); Food and nutrition, Malnutrition (over and under nutrition), nutritional disorders;

Unit- V:

- Energy metabolism (carbohydrate, fat, proteins); Balanced/ modified diets, Menu planning, New trends in food science and nutrition.

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BAG-344: Agricultural Journalism

CO: COURSE OBJECTIVE

CO-1 Understand Agricultural Issues and Trends: To familiarize students with the key issues, challenges, and trends in agriculture, including sustainability, food security, climate change, and technological advancements.

CO-2 Develop Writing and Reporting Skills: To teach students how to effectively research, write, and report on agricultural topics, ensuring clarity and accuracy while making complex subjects accessible to diverse audiences.

CO-3 Foster Multimedia Communication Abilities: To enable students to use various media formats—such as print, radio, television, and digital platforms—to communicate agricultural stories, including the use of social media for outreach.

CO-4 Critically Analyze Agricultural Policies and Practices: To provide students with the skills to critically assess agricultural policies, practices, and their impacts on rural communities, economies, and the environment.

CO-5 Enhance Ethical and Responsible Journalism: To instill a strong understanding of journalistic ethics, particularly in the context of reporting on agricultural issues, with a focus on balanced, fair, and transparent reporting.

CO-6 Cultivate Collaboration with Agricultural Stakeholders: To prepare students to work closely with farmers, agricultural businesses, government agencies, NGOs, and other stakeholders in the agricultural sector to gather information and enhance their stories.

CO-7 Promote Advocacy and Public Awareness: To empower students to use journalism as a tool for advocacy, raising awareness about critical agricultural issues and contributing to informed public discourse on topics such as food production, rural development, and environmental sustainability.

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Course Contents

Unit- I:

- Agricultural Journalism: The nature and scope of agricultural journalism characteristics and training of the agricultural journalist, how agricultural journalism is similar to and different from other types of journalism.

Unit- II:

- Newspapers and magazines as communication media: Characteristics; kinds and functions of newspapers and magazines, characteristics of newspaper and magazine readers. Form and content of newspapers and magazines: Style and language of newspapers and magazines, parts of newspapers and magazines.

Unit- III:

- The agricultural story: Types of agricultural stories, subject matter of the agricultural story, structure of the agricultural story. Gathering agricultural information: Sources of agricultural information, interviews, coverage of events, abstracting from research and scientific materials, wire services, other agricultural news sources.

Unit- IV:

- Writing the story: Organizing the material, treatment of the story, writing the news lead and the body, readability measures. Illustrating agricultural stories: Use of photographs, use of artwork (graphs, charts, maps, etc.), writing the captions. Editorial mechanics: Copy reading, headline and title writing, proofreading, lay outing.

Practical:

Practice in interviewing. Covering agricultural events. Abstracting stories from research and scientific materials and from wire services. Writing different types of agricultural stories. Selecting pictures and artwork for the agricultural story. Practice in editing, copy reading, headline and title writing, proofreading, layouting. Testing copy with a readability formula. Visit to a publishing office.

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B.Sc. (Ag.) VII Semester

BAG-401 General orientation & on campus training by different Faculties

CO: COURSE OBJECTIVES

CO-1 Familiarization with the Institution: Introduce students to the institution's culture, values, and infrastructure. Provide an overview of various academic and co-curricular resources available on campus.

CO-2 Interdisciplinary Exposure: Facilitate interaction with faculty members from different disciplines to broaden students' academic perspectives. Encourage understanding of multidisciplinary approaches problem-solving and learning.

CO-3 Skill Development: Enhance communication, teamwork, and interpersonal skills through interactive sessions. Introduce students to tools and techniques relevant to academic and professional success.

CO-4 Guidance on Academic Pathways: Offer insights into academic programs, research opportunities, and career trajectories. Provide orientation on the curriculum, evaluation systems, and academic expectations.

CO-5 Motivation and Goal Setting: Inspire students through lectures and interactions with experienced faculty. Help students set personal and academic goals for their educational journey.

CO-6 Community Building: Create a sense of belonging and engagement among students by fostering peer and faculty interactions. Encourage participation in campus life, clubs, and other student activities.

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BAG-403 Village attachment

CO: COURSE OBJECTIVES

CO-1 Understanding Rural Life: To familiarize students with the day-to-day lifestyle, culture, traditions, and challenges faced by rural communities.

CO-2 Knowledge of Agricultural Practices: To observe and analyze the farming systems, cropping patterns, and the use of modern and traditional agricultural techniques.

CO-3 Socio-Economic Awareness: To assess the socio-economic structure of rural areas, including income sources, living standards, education, healthcare, and social organization.

CO-4 Community Engagement: To encourage students to interact with farmers, laborers, and village authorities to understand their perspectives and aspirations.

CO-5 Identification of Problems: To identify key issues in rural development, such as water scarcity, soil degradation, lack of education, or health facilities, and suggest possible solutions.

CO-6 Application of Knowledge: To apply classroom knowledge in real-life rural scenarios, enhancing problem-solving skills and practical learning.

CO-7 Promoting Sustainable Practices: To educate villagers about sustainable agricultural and livelihood practices, emphasizing the importance of environmental conservation.

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BAG-405 Unit attachment in University/College/KVK / Research Station Attachment

CO: COURSE OBJECTIVES

CO-1 Skill Development: Equip students with practical knowledge and skills in agricultural practices, laboratory techniques, and modern research methodologies.
Develop competencies in handling scientific instruments and performing field trials.

CO-2 Practical Knowledge Application: Provide exposure to real-life applications of theoretical concepts learned in classrooms. Enable students to analyze and solve on-ground agricultural challenges.

CO-3 Research Familiarity: Introduce students to research station operations and research methodologies, including data collection, analysis, and reporting.
Foster a research-oriented mindset.

CO-4 Knowledge of Extension Services: Understand the role of Krishi Vigyan Kendras (KVKs) in technology dissemination and farmer training. Participate in outreach programs, on-farm demonstrations, and training sessions conducted for farmers.

CO-5 Collaborative Learning: Facilitate interaction with agricultural scientists, extension workers, and farmers to gain diverse perspectives on agriculture. Promote teamwork in multidisciplinary agricultural projects.

CO-6 Exposure to Advanced Techniques: Familiarize students with advanced agricultural techniques like precision farming, integrated pest management, and sustainable resource management. Gain insights into recent innovations in agriculture and their implementation.

CO-7 Career Readiness: Prepare students for future roles in academics, research, and extension services. Enhance employability through experience in professional agricultural setups.

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BAG-407 Plant Clinic

CO: COURSE OBJECTIVES

CO-1 Diagnosis of Plant Problems: Develop the ability to identify symptoms of diseases, pests, nutrient deficiencies, and abiotic stresses in plants.

CO-2 Integrated Pest and Disease Management (IPDM): Understand and implement IPDM strategies to manage plant health issues sustainably.

CO-3 Understanding Plant-Pathogen Interactions: Learn the mechanisms of how pathogens, pests, and environmental factors affect plant growth and productivity.

CO-4 Use of Diagnostic Tools and Techniques: Train in the application of modern diagnostic tools, such as microscopy, molecular methods, and field-based techniques.

CO-5 Prescribing Solutions: Gain expertise in recommending suitable control measures, including chemical, biological, and cultural practices.

CO-6 Monitoring and Early Warning Systems: Learn to establish monitoring systems for early detection of plant health problems.

CO-7 Advisory Services: Prepare to provide guidance to farmers and stakeholders on plant health management.

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BAG-409 Agro-Industrial Attachment

CO: COURSE OBJECTIVES

CO-1 Practical Exposure: Provide students with hands-on experience in agro-industrial operations, enabling them to understand the real-world functioning of agriculture-related industries.

CO-2 Skill Development: Develop technical and managerial skills through active participation in various industrial processes, including production, processing, and quality management.

CO-3 Industry-Academia Interface: Strengthen the connection between educational institutions and industries to align academic training with industrial requirements.

CO-4 Understanding Industrial Processes: Familiarize students with the working principles, technologies, and machinery used in agro-industrial units, such as food processing, agrochemicals, or farm machinery.

CO-5 Professional Networking: Build relationships with industry professionals, which can help students understand market trends, entrepreneurship opportunities, and career prospects.

CO-6 Problem-Solving Ability: Encourage students to identify and analyze real-time challenges in agro-industries and propose innovative solutions.

CO-7 Entrepreneurship Development: Inspire entrepreneurial mindset by exposing students to industrial strategies, supply chain mechanisms, and business models in agriculture.

CO-8 Value Addition Awareness: Help students understand the importance of value addition in agriculture and its role in enhancing income and sustainability.

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BAG-411 Project Report Preparation, Presentation and Evaluation General Orientation & On campus training by different Faculties

CO: COURSE OBJECTIVES

CO-1 Skill Development in Research Methodology: Equip students with the knowledge to design and implement research projects systematically. Teach proper techniques for data collection, analysis, and interpretation.

CO-2 Enhancing Report Writing Skills: Develop the ability to prepare well-structured, concise, and comprehensive project reports. Focus on correct formatting, citation, and documentation practices.

CO-3 Effective Presentation Techniques: Train students to present their research findings clearly and confidently using various tools (e.g., PowerPoint, charts, graphs). Improve communication skills for academic and professional contexts.

CO-4 Evaluation and Feedback Integration: Enable students to critically evaluate research work (their own and others'). Incorporate constructive feedback to refine their research and reporting skills.

CO-5 Team Collaboration and Interdisciplinary Exposure: Promote teamwork and exchange of ideas among peers. Foster an understanding of interdisciplinary approaches to problem-solving.

CO-6 Practical Exposure through Faculty Training: Gain insights into specialized topics through on-campus training sessions conducted by expert faculty members. Learn from real-world case studies, faculty experiences, and practical demonstrations.

CO-7 Career Readiness: Prepare students for professional roles requiring project planning, execution, and reporting skills. Build confidence in handling future academic or industrial projects.

CO-8 Critical Thinking and Problem Solving: Develop analytical skills to identify challenges and propose solutions within a project framework.

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Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)

- This program will be undertaken by the students during the seventh semester for a total duration of 20 weeks with a weightage of 0+20 credit hours in two parts, namely, RAWE and AIA.
- It will consist of general orientation and on-campus training by different faculties followed by village attachment/unit attachment in university/ college/ KVK or a research station.
- The students would be attached with the agro-industries to get an experience of the industrial environment and working.
- Due weightage in terms of credit hours will be given depending upon the duration of stay of students in villages/ agro-industries.
- At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation.

The Rural Agricultural Work Experience (RAWE) helps the students primarily to understand the rural situations, status of agricultural technologies adopted by the farmers to prioritize the farmers' problems and to develop skills & attitude of working with farm families for overall development in rural area. The timings for RAWE can be flexible for specific regions to coincide with the main cropping season.

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RAWE Component-I: Village Attachment Training Programme

S. No	Activity	Duration
1	Orientation and Survey of Village	1 week
2	Agronomical Interventions	1 week
3	Plant Protection Interventions	1 week
4	Soil Improvement Interventions (Soil sampling and testing)	1 week
5	Fruit and Vegetable production interventions	1 week
6	Food Processing and Storage interventions	
7	Animal Production Interventions	1 week
8	Extension and Transfer of Technology activities	1 week

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- Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks.
- Industries include Seed/Sapling production, Pesticides-insecticides, Post-harvest-processing- value addition, Agri-finance institutions, etc.

Activities and Tasks during Agro-Industrial Attachment Programme

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students

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B.Sc. (Ag.) VIII Semester

BAG-402 Production Technology for Bioagents and Biofertilizer

CO: COURSE OBJECTIVES

CO-01 Understanding Bioagents and Biofertilizers: Familiarize students with the concept, types, and importance of bioagents (e.g., biocontrol agents like Trichoderma, Bacillus) and biofertilizers (e.g., Rhizobium, Azotobacter, Mycorrhiza).

CO-02 Production Technologies: Equip students with knowledge about the production processes, culture techniques, and maintenance of bioagents and biofertilizers under laboratory and industrial conditions.

CO-03 Formulation and Quality Control: Teach methods for the formulation, packaging, and quality assessment of bioagents and biofertilizers to ensure their efficacy and shelf life.

CO-04 Application Techniques: Train students in the effective application methods of bioagents and biofertilizers in agriculture for sustainable crop production.

CO-05 Environmental and Economic Benefits: Highlight the role of bioagents and biofertilizers in reducing chemical inputs, improving soil health, enhancing crop productivity, and promoting eco-friendly agricultural practices.

CO-06 Entrepreneurial Opportunities: Encourage students to explore entrepreneurship in the biofertilizer and bioagent production sector as a sustainable business model.

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BAG-404 Seed Production and Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Seed Science: To provide a thorough understanding of the principles of seed biology, including seed development, physiology, and germination.

CO-02 Seed Production Techniques: To learn the methodologies and technologies used in the production of quality seeds for various crops.

CO-03 Seed Certification and Quality Control: To understand the standards, procedures, and practices involved in seed certification, labeling, and maintaining quality standards.

CO-04 Seed Storage and Preservation: To study the principles and techniques of seed storage, maintaining seed viability, and longevity under various conditions.

CO-05 Hybrid Seed Production: To explore techniques for hybrid seed production, including pollination control mechanisms and genetic purity maintenance.

CO-06 Seed Health and Testing: To familiarize students with seed testing protocols for germination, vigor, purity, and health.

CO-07 Role in Crop Improvement: To highlight the role of quality seed production in improving crop yield, disease resistance, and overall agricultural productivity.

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BAG-406 Mushroom Cultivation Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Mushroom Biology: Learn about the taxonomy, morphology, and physiology of edible and medicinal mushrooms. Understand the ecological role and nutritional importance of mushrooms.

CO-02 Cultivation Techniques: Develop skills in the preparation of substrates for mushroom cultivation. Understand the methods of spawn production and management. Learn cultivation practices for different types of mushrooms (e.g., button, oyster, shiitake, and milky mushrooms).

CO-03 Post-Harvest Management: Gain knowledge about harvesting, processing, and packaging techniques. Explore value-added products and storage methods to enhance shelf life.

CO-04 Disease and Pest Management: Understand common diseases, pests, and environmental issues affecting mushroom production. Learn preventive and curative measures.

CO-05 Economic and Entrepreneurial Skills: Develop an understanding of the commercial potential of mushroom cultivation. Gain knowledge of cost-effective production, market trends, and business planning. Explore opportunities for small-scale and large-scale entrepreneurship.

CO-06 Sustainability and Waste Utilization: Learn about sustainable practices in mushroom cultivation. Explore the use of agricultural waste and by-products as substrates for cultivation.

CO-07 Practical Applications and Hands-on Training: Engage in hands-on training for setting up mushroom farms and spawn production units.

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BAG-408 Soil, Plant, Water and Seed Testing

CO: COURSE OBJECTIVES

CO-01 Understand Soil Testing: Develop expertise in analyzing soil physical, chemical, and biological properties. Provide recommendations for sustainable soil fertility management based on test results.

CO-02 Plant Testing and Analysis: Learn to assess plant tissue for nutrient status to identify deficiencies, toxicities, or imbalances. Integrate plant analysis data with soil tests for efficient nutrient management.

CO-03 Water Testing: Evaluate water quality parameters like pH, electrical conductivity, salinity, and contaminant levels for agricultural use. Understand the suitability of water for irrigation and its impact on soil and crop health.

CO-04 Seed Testing: Develop skills in determining seed quality, including germination percentage, vigor, moisture content, and purity. Learn methods to ensure high-quality seed production for better crop yields.

CO-05 Promote Sustainable Agriculture: Integrate testing practices to make informed decisions for sustainable and environmentally friendly farming practices.

CO-06 Enhance Research and Analytical Skills: Train in the use of advanced instruments and methodologies for precise analysis. Foster critical thinking and problem-solving in agricultural resource management.

CO-07 Policy and Advisory Role: Equip participants to work as advisors or policymakers in agriculture, ensuring resource-efficient and sustainable practices are adopted at local and regional levels.

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BAG-410 Commercial Beekeeping

CO: COURSE OBJECTIVES

CO-01 Introduction to Beekeeping: Understanding the fundamentals of beekeeping, including bee biology, behavior, and the role of bees in agriculture and biodiversity.

CO-02 Bee Management Practices: Learning how to manage bee colonies effectively for honey production, pollination, and other byproducts like beeswax, propolis, and royal jelly.

CO-03 Hive Management: Training on how to maintain and manage beehives, including setting up, inspecting, and maintaining healthy hives for maximum productivity.

CO-04 Disease and Pest Control: Understanding common diseases and pests that affect bees and how to manage them to ensure a thriving colony.

CO-05 Pollination Services: Exploring the commercial aspects of pollination services for crops, especially for fruit, vegetable, and seed production.

CO-06 Honey Harvesting and Processing: Learning the best practices for harvesting honey and other bee products, followed by methods of extraction, processing, and packaging for sale.

CO-07 Marketing and Business Skills: Developing the skills needed to run a successful commercial beekeeping operation, including market analysis, business planning, and product distribution.

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BAG-412 Poultry Production Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Poultry Husbandry: Teaching the basics of poultry farming, including the care, breeding, and management of poultry species such as chickens, ducks, turkeys, and geese.

CO-02 Poultry Nutrition: Understanding the nutritional requirements of poultry for different stages of growth (chicks, growers, and layers), including feed formulation and feeding techniques.

CO-03 Poultry Health Management: Learning about common diseases in poultry, their prevention, and control measures, along with vaccination schedules and biosecurity practices.

CO-04 Poultry Breeding: Gaining knowledge of selective breeding techniques for improving traits like egg production, meat quality, and disease resistance.

CO-05 Egg and Meat Production: Developing the skills required to manage egg-laying and meat-producing flocks, ensuring high productivity and quality.

CO-06 Poultry Farm Management: Acquiring skills in managing a poultry farm, including housing design, waste management, record-keeping, and financial management.

CO-07 Poultry Processing and Marketing: Understanding the steps involved in processing poultry products (eggs, meat) for market readiness, along with packaging, storage, and marketing strategies.

CO-08 Sustainable Practices: Promoting environmentally sustainable poultry farming practices, including waste management, resource optimization, and minimizing environmental impact.

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BAG-414 Commercial Horticulture

CO: COURSE OBJECTIVES

CO-01 Understanding Horticultural Practices: Learn about the scientific principles and techniques involved in the cultivation of various horticultural crops, including soil preparation, irrigation, fertilization, and pest management.

CO-02 Business and Economic Aspects: Develop the ability to assess the economic viability of horticultural ventures, including cost analysis, market trends, and profitability. Understanding the economics of large-scale horticultural production is crucial for success in commercial farming.

CO-03 Sustainable Practices: Focus on the adoption of sustainable farming methods, such as organic farming, integrated pest management (IPM), and water conservation techniques, ensuring long-term productivity without compromising environmental health.

CO-04 Advanced Technologies: Explore the use of modern technologies in horticulture, including greenhouse production, hydroponics, precision agriculture, and the application of biotechnology in crop improvement.

CO-05 Post-Harvest Management: Understand the techniques for post-harvest handling, storage, and transportation to reduce losses and maintain product quality, which is key to the success of commercial horticultural enterprises.

CO-06 Market and Supply Chain Management: Gain insights into market demand, packaging, distribution, and logistics involved in the commercialization of horticultural products, including export opportunities.

CO-07 Entrepreneurial Skills: Equip students with entrepreneurial skills to start their own horticulture-based ventures, focusing on innovation, business planning, and financial management.

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BAG-416 Floriculture and Landscaping

CO: COURSE OBJECTIVES

CO-01 Understanding of Floriculture: To provide students with knowledge about the production, cultivation, and management of flowers and ornamental plants. This includes learning about plant varieties, their growth requirements, and techniques for effective flower cultivation.

CO-02 Landscape Design Principles: To teach the principles of designing functional, aesthetically pleasing, and sustainable landscapes. This covers aspects such as site analysis, plant selection, design concepts, and landscaping elements (e.g., pathways, fountains, and sculptures).

CO-03 Techniques in Landscaping: To equip students with practical skills in landscape maintenance, soil preparation, irrigation, and pest management, which are essential for creating and maintaining beautiful gardens and landscapes.

CO-04 Environmental Sustainability: To highlight the role of floriculture and landscaping in promoting environmental sustainability, including water conservation, biodiversity, and reducing carbon footprints through green spaces.

CO-05 Economic Aspects of Floriculture and Landscaping: To explore the economic potential of floriculture as a business, including the marketing of flowers, plants, and landscaping services, as well as the role of landscaping in urban development.

CO-06 Horticultural Practices: To teach students the various horticultural practices specific to the cultivation of flowers and ornamental plants, such as propagation, pruning, and harvesting.

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BAG-418 Food Processing

CO: COURSE OBJECTIVES

CO-01 Understanding Food Processing Principles: To introduce students to the fundamental principles of food processing, such as preservation, fermentation, freezing, drying, and packaging, and their role in enhancing shelf life, nutritional value, and sensory qualities of food.

CO-02 Exploring Different Processing Techniques: To familiarize students with various processing techniques used in the food industry, including thermal processing, refrigeration, dehydration, canning, pasteurization, and extrusion.

CO-03 Food Safety and Quality Control: To emphasize the importance of food safety, sanitation, and quality control measures during processing to prevent contamination and ensure that food products meet regulatory standards.

CO-04 Impact on Nutritional Content: To examine how different processing methods affect the nutritional content, bioavailability of nutrients, and sensory attributes (taste, color, texture) of food products.

CO-05 Technology and Innovation: To expose students to the latest advancements in food processing technology, including automation, use of enzymes, nanotechnology, and other innovative methods for improving efficiency and sustainability in food production.

CO-06 Understanding Food Product Development: To equip students with skills in food product formulation and development, enabling them to create new food products based on consumer demands, market trends, and nutritional needs.

CO-07 Economic and Environmental Aspects: To analyze the economic feasibility of food processing operations, including cost analysis, resource utilization, and the environmental impact of food processing techniques.

Practical Application: To provide hands-on experience through laboratory work or industry internships, where students can apply theoretical knowledge to real-world food processing challenges.

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BAG-420 Agriculture Waste Management

CO: COURSE OBJECTIVES

CO-01 Understanding Agricultural Waste: Learn about the types of agricultural waste generated (e.g., crop residues, animal manure, and agro-industrial waste) and their environmental impact.

CO-02 Waste Disposal and Recycling: Explore methods for the safe disposal and recycling of agricultural waste to minimize environmental pollution.

CO-03 Waste-to-Energy Technologies: Study technologies that convert agricultural waste into energy (e.g., biogas production, biofuels).

CO-04 Composting and Soil Health: Understand how agricultural waste can be composted and used to improve soil health and fertility.

CO-05 Environmental Impact Assessment: Evaluate the environmental implications of poor waste management practices and the importance of sustainable waste management in agriculture.

CO-06 Policy and Regulation: Study national and international policies, regulations, and standards related to agricultural waste management.

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BAG-422 Organic Production Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Organic Farming Principles: Introduce students to the fundamental principles of organic farming, emphasizing the importance of sustainability, biodiversity, and soil health.

CO-02 Techniques of Organic Crop Production: Equip students with knowledge of various organic farming practices such as crop rotation, composting, green manure, mulching, and organic pest management.

CO-03 Soil Health Management: Teach students how organic production emphasizes soil fertility through the use of organic matter, bio-fertilizers, and soil-friendly techniques, avoiding chemical inputs.

CO-04 Organic Inputs and Fertilization: Focus on the sources and use of organic fertilizers, including compost, vermicompost, biofertilizers, and plant-based nutrient amendments.

CO-05 Certification and Standards: Provide knowledge on organic certification processes, standards, and regulations to ensure products meet the requirements for organic labeling.

CO-06 Pest and Disease Management in Organic Systems: Teach students how to manage pests and diseases through non-chemical means like biological control, physical methods, and plant resistance.

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BAG-424 Commercial Sericulture

CO: COURSE OBJECTIVES

CO-1 Understanding Sericulture Basics: To introduce students to the history, principles, and biology of sericulture, focusing on silk-producing organisms, particularly silkworms (Bombyx mori).

CO-2 Silkworm Rearing Techniques: To train students in the various techniques involved in silkworm rearing, including the selection of appropriate breeds, feeding, and care of silkworms to enhance silk production.

CO-03 Silk Cocoon Production: To impart knowledge about cocoon harvesting, handling, and processing for commercial silk production.

CO-04 Sericulture Infrastructure: To educate students on setting up and managing a sericulture farm, including the design of rearing houses, mulberry cultivation for silkworm feed, and other necessary infrastructure.

CO-05 Economic Aspects: To explore the economic potential of sericulture, including cost analysis, profit margins, market trends, and the development of a business model.

CO-06 Post-harvest Processing: To provide hands-on training in processing cocoons into silk threads, including reeling, twisting, dyeing, and weaving.

CO-07 Sustainability in Sericulture: To discuss sustainable sericulture practices, pest management, and environmental concerns associated with silk farming.

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Modules for Skill Development and Entrepreneurship

A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the following package of modules in the VIII semester.

NOTE: In addition to above ELP modules other important modules may be given to the students by SAUs.

S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-402	Production Technology for Bioagents and Biofertilizer	1	0	0	2
2.	BAG-404	Seed Production and Technology	1	0	0	2
3.	BAG-406	Mushroom Cultivation Technology	1	0	0	2
4.	BAG-408	Soil, Plant, Water and Seed Testing	1	0	0	2
5.	BAG-410	Commercial Beekeeping	1	0	0	2
6.	BAG-412	Poultry Production Technology	1	0	0	2
7.	BAG-414	Commercial Horticulture	1	0	0	2
8.	BAG-416	Floriculture and Landscaping	1	0	0	2
9.	BAG-418	Food Processing	1	0	0	2
10.	BAG-420	Agriculture Waste Management	1	0	0	2
11.	BAG-422	Organic Production Technology	1	0	0	2
12.	BAG-424	Commercial Sericulture	1	0	0	2
	Total		**12**	**0**	**0**	**24**

Evaluation of Experiential Learning Programme/ Hands-on Training (HOT)

S. No	Parameters	Max. Marks
11.	Project Planning and Writing	10
12.	Presentation	10
13.	Regularity	10
14.	Monthly Assessment	10
15.	Output delivery	10
16.	Technical Skill Development	10
17.	Entrepreneurship Skills	10
18.	Business networking skills	10
19.	Report Writing Skills	10
20.	Final Presentation	10
	Total	**100**

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Elective Courses

A student can select three elective courses out of the following and offer during 4th (BAG-220), 5th (BAG-319) and 6th (BAG-344) semesters.

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Agribusiness Management

CO: COURSE OBJECTIVE

CO-1 Maximize Profitability: Optimize the use of resources, including land, labor, capital, and technology, to ensure the profitability and financial sustainability of agribusiness operations.

CO-2 Efficient Resource Utilization: Ensure the efficient use of inputs like seeds, fertilizers, water, and machinery to reduce waste and increase productivity.

CO-3 Market Competitiveness: Develop strategies to compete effectively in local and global markets, including pricing, branding, and distribution.

CO-4 Sustainability and Environmental Stewardship: Promote environmentally sustainable practices by reducing the ecological impact of agricultural operations, conserving natural resources, and supporting biodiversity.

CO-5 Risk Management: Identify, analyze, and mitigate risks related to price volatility, climate change, pests, diseases, and market uncertainties.

CO-6 Enhance Supply Chain Efficiency: Streamline processes from production to distribution, ensuring timely delivery of products while maintaining quality and minimizing costs.

CO-7 Support Rural Development: Contribute to rural economic growth by creating employment opportunities, fostering community development, and improving the livelihood of farmers and workers.

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Course Contents

Unit- I:

- Transformation of agriculture into agribusiness, various stakeholders and components of agribusiness systems. Importance of agribusiness in the Indian economy and New Agricultural Policy. Distinctive features of Agribusiness Management: Importance and needs of agro-based industries,

Unit- II:

- Classification of industries and types of agro based industries. Institutional arrangement, procedures to set up agro based industries. Constraints in establishing agro-based industries.

Unit- III:

- Agri-value chain: Understanding primary and support activities and their linkages. Business environment: PEST & SWOT analysis. Management functions: Roles & activities, Organization culture. Planning, meaning, definition, types of plans. Purpose or mission, goals or objectives, Strategies, polices procedures, rules, programs and budget. Components of a business plan, Steps in planning and implementation.

Unit- IV:

- Organization staffing, directing and motivation. Ordering, leading, supervision, communications, control. Capital Management and Financial management of Agribusiness. Financial statements and their importance. Marketing Management: Segmentation, targeting & positioning.

Unit- V:

- Marketing mix and marketing strategies. Consumer behaviour analysis, Product Life Cycle (PLC).Sales & Distribution Management. Pricing policy, various pricing methods. Project Management definition, project cycle, identification, formulation, appraisal, implementation, monitoring and evaluation. Project Appraisal and evaluation techniques.

Practical:

Study of agri-input markets: Seed, fertilizers, pesticides. Study of output markets: grains, fruits, vegetables, flowers. Study of product markets, retails trade commodity trading, and value added products. Study of financing institutions- Cooperative, Commercial banks, RRBs, Agribusiness Finance Limited, NABARD. Preparations of projects and Feasibility reports for agribusiness entrepreneur. Appraisal/evaluation techniques of identifying viable project- Non-discounting techniques. Case study of agro-based industries. Trend and growth rate of prices of agricultural commodities. Net present worth technique for selection of viable project. Internal rate of return.

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Agrochemicals

CO: COURSE OBJECTIVE

CO-1 Enhance Crop Yield: Increase agricultural productivity by providing essential nutrients, protecting crops from pests, and improving growth conditions.

CO-2 Pest and Disease Control: Protect crops from harmful pests, weeds, and diseases that can reduce yields and quality.

CO-3 Improve Crop Quality: Ensure better-quality produce by preventing nutrient deficiencies, diseases, and pest damage.

CO-4 Promote Efficient Resource Use: Maximize the effectiveness of water, nutrients, and soil resources through targeted applications.

CO-5 Support Sustainable Farming Practices: Help maintain soil fertility and health while minimizing land degradation when used responsibly.

CO-6 Facilitate Large-Scale Farming: Enable efficient management of large agricultural areas by reducing the labor required for pest control and fertilization.

CO-7 Adapt to Changing Climate Conditions: Provide tools to combat stress factors such as drought, high temperatures, or nutrient depletion caused by climate changes.

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Course Contents

Unit- I:

- An introduction to agrochemicals, their type and role in agriculture, effect on environment, soil, human and animal health, merits and demerits of their uses in agriculture, management of agrochemicals for sustainable agriculture. Herbicides- Major classes, properties and important herbicides. Fate of herbicides, Fungicides - Classification – Inorganic fungicides - characteristics, preparation and use of sulfur and copper, Mode of action-Bordeaux mixture and copper oxychloride.

Unit- II:

- Organic fungicides- Mode of action- Dithiocarbamates-characteristics, preparationand use of Zineb and maneb, Systemic fungicides- Benomyl, carboxin, oxycarboxin, Metalaxyl, Carbendazim, characteristics and use. Introduction and classification of insecticides: inorganic and organic insecticides

Unit- III:

- Organochlorine, Organophosphates, Carbamates, Synthetic pyrethroids Neonicotinoids, Biorationals, Insecticide Act and rules, Insecticides banned, withdrawn and restricted use, Fate of insecticides in soil & plant. IGRs Biopesticides, Reduced risk insecticides, Botanicals, plant and animal systemic insecticides their characteristics and uses.

Unit- IV:

- Fertilizers and their importance. Nitrogenous fertilizers: Feedstocks and Manufacturing of ammonium sulphate, ammonium nitrate, ammonium chloride, urea. Slow release N-fertilizers. Phosphatic fertilizers: feedstock and manufacturing of single superphosphate. Preparation of bone meal and basic slag.Potassic fertilizers: Natural sources of potash, manufacturing of potassiumchloride, potassium sulphate and potassium nitrate.

Unit- V:

- Mixed and complex fertilizers: Sources and compatibility–preparation of major, secondary and micronutrient mixtures. Complex fertilizers: Manufacturing of ammonium phosphates, nitrophosphates and NPK complexes. Fertilizer control order. Fertilizer logistics and marketing. Plant bio-pesticides for ecological agriculture, Bio-insect repellent.

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Practical:

Sampling of fertilizers and pesticides. Pesticides application technology to study about various pesticides appliances. Quick tests for identification of common fertilizers. Identification of anion and cation in fertilizer. Calculation of doses of insecticides to be used. To study and identify various formulations of insecticide available kin market. Estimation of nitrogen in Urea. Estimation of water soluble P2O5 and citrate soluble P2O5 in single super phosphate. Estimation of potassium in Muraite of Potash/ Sulphate of Potash by flame photometer. Determination of copper content in copper oxychloride. Determination of sulphur content in sulphur fungicide. Determination of thiram. Determination of ziram content.

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Commercial Plant Breeding

CO: COURSE OBJECTIVE

CO-1 Improved Yield: To increase the productivity of crops per unit area, ensuring higher returns for farmers and food security for populations.

CO-2 Disease and Pest Resistance: To develop plant varieties resistant to specific diseases and pests, reducing crop losses and the need for chemical pesticides.

CO-3 Abiotic Stress Tolerance: To breed plants capable of withstanding adverse environmental conditions such as drought, salinity, extreme temperatures, and flooding.

CO-4 Enhanced Quality: To improve the nutritional value, taste, texture, shelf life, and appearance of crops, meeting consumer demands and market standards.

CO-5 Adaptation to Mechanization: To produce crop varieties that are suited to modern agricultural practices, including mechanical planting, harvesting, and processing.

CO-6 Shorter Growing Cycles: To develop varieties with reduced maturity periods, enabling multiple cropping in a year or better adaptation to specific growing seasons.

CO-7 Market-Specific Traits: To tailor crops for specific industrial uses (e.g., high oil content in oilseeds, gluten content in wheat, or sugar content in sugarcane) and regional consumer preferences.

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Course Contents

Unit- I:

- Types of crops and modes of plant reproduction. Line development and maintenance breeding in self and cross pollinated crops (A/B/R and two line system) for development of hybrids and seed production.

Unit- II:

- Genetic purity test of commercial hybrids. Advances in hybrid seed production of maize, rice, sorghum, pearl millet, castor, sunflower, cotton pigeon pea, Brassica etc.

Unit- III:

- Quality seed production of vegetable crops under open and protected environment. Alternative strategies for the development of the line and cultivars: haploid inducer, tissue culture techniques and biotechnological tools.

Unit- IV:

- IPR issues in commercial plant breeding: DUS testing and registration of varieties under PPV & FR Act. Variety testing, release and notification systems in India. Principles and techniques of seed production, types of seeds, quality testing in selfand cross pollinated crops.

Practical:

Floral biology in self and cross pollinated species, selfing and crossing techniques. Techniques of seed production in self and cross pollinated crops using A/B/R and two line system. Learning techniques in hybrid seed production using male-sterility in field crops. Understanding the difficulties in hybrid seed production, Tools and techniques for optimizing hybrid seed production. Concept of rouging in seed production plot. Concept of line its multiplication and purification in hybrid seed production. Role of pollinators in hybrid seed production. Hybrid seed production techniques in sorghum, pearl millet, maize, rice, rapeseed-mustard, sunflower, castor, pigeon pea, cotton and vegetable crops. Sampling and analytical procedures for purity testing and detection of spurious seed. Seed drying and storage structure in quality seed management. Screening techniques during seed processing viz., grading and packaging. Visit to public private seed production and processing plant.

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Landscaping

CO: COURSE OBJECTIVE

CO-1 Aesthetic Enhancement: Create visually appealing spaces through the use of plants, structures, and other landscape elements.

CO-2 Functional Use: Optimize outdoor spaces for practical purposes, such as recreation, dining, walking paths, or seating areas.

CO-3 Environmental Sustainability: Promote ecological balance by incorporating native plants, conserving water, and providing habitats for wildlife.

CO-4 Climate Moderation: Use landscaping elements like trees and shrubs to regulate temperature, reduce heat, and provide shade or windbreaks.

CO-5 Erosion and Soil Protection: Prevent soil erosion and degradation by using ground covers, terraces, and retaining walls.

CO-6 Increase Property Value: Enhance the market value of a property through thoughtful and well-maintained landscaping.

CO-7 Improved Air and Noise Quality: Use plants to purify the air and act as natural sound barriers to reduce noise pollution.

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Course Contents

Unit- I:

- Importance and scope of landscaping. Principles of landscaping, garden styles and types, terrace gardening, vertical gardening, garden components, adornments, lawn making, rockery, water garden, walk-paths, bridges, other constructed features etc. gardens for special purposes.

Unit- II:

- Trees: selection, propagation, planting schemes, canopy management, shrubs and herbaceous perennials: selection, propagation, planting schemes, architecture. Climber and creepers: importance, selection, propagation, planting,

Unit- III:

- Annuals: selection, propagation, planting scheme, Other garden plants: palms, ferns, grasses and cacti succulents. Pot plants: selection, arrangement, management.

Unit- IV:

- Bio-aesthetic planning: definition, need, planning; landscaping of urban and rural areas, Peri-urban landscaping, Landscaping of schools, public places like bus station, railway station, townships, river banks, hospitals, play grounds, airports, industries, institutions. Bonsai: principles and management, lawn: establishment andmaintenance. CAD application

Practical:

Identification of trees, shrubs, annuals, pot plants; Propagation of trees, shrubs and annuals, care and maintenance of plants, potting and repotting, identification of tools and implements used in landscape design, training and pruning of plants for special effects, lawn establishment and maintenance, layout of formal gardens, informal gardens, special type of gardens (sunken garden, terrace garden, rock garden) and designing of conservatory and lathehouse. Use of computer software, visit to important gardens/ parks/ institutes.

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Food Safety and Standards

CO: COURSE OBJECTIVE

CO-1 Ensure Public Health: Protect consumers by ensuring that food is safe, nutritious, and free from contaminants, thereby reducing foodborne illnesses.

CO-2 Regulate Food Quality: Establish and enforce standards for food products to ensure consistent quality and safety throughout the food supply chain.

CO-3 Prevent Adulteration: Monitor and prevent the adulteration of food products to maintain their authenticity and protect consumer rights.

CO-4 Promote Hygiene in Food Handling: Encourage hygienic practices at every stage, from production and processing to storage, distribution, and consumption.

CO-5 Facilitate Fair Trade Practices: Ensure that food businesses adhere to ethical practices, avoiding misleading claims and labeling to protect consumer interests.

CO-6 Support Consumer Awareness: Educate consumers about food safety, labeling, and nutritional information to enable informed choices.

CO-7 Encourage Innovation and Research: Promote advancements in food technology, safety standards, and sustainable practices to improve the overall food ecosystem.

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Course Contents

Unit- I:

- Food Safety – Definition, Importance, Scope and Factors affecting Food Safety. Hazards and Risks, Types of hazards - Biological, Chemical, Physical hazards. Management of hazards - Need. Control of parameters. Temperature control.

Unit- II:

- Food storage. Product design. Hygiene and Sanitation in Food Service Establishments- Introduction. Sources of contamination and their control. Waste Disposal. Pest and Rodent Control. Personnel Hygiene. Food Safety Measures.

Unit- III:

- Food Safety Management Tools- Basic concepts. PRPs, GHPs, GMPs, SSOPs etc. HACCP. ISO series. TQM concept and need for quality, components of TQM, Kaizen. Risk Analysis. Accreditation and Auditing, Water Analysis, Surface Sanitation and Personal Hygiene.

Unit- IV:

- Food laws and Standards- Indian Food Regulatory Regime, FSSA. Global Scenario CAC. Other laws and standards related to food. Recent concerns- New and Emerging Pathogens. Packaging, Product labeling and Nutritional labeling.

Unit- V:

- Genetically modified foods\ transgenics. Organic foods. Newer approaches to food safety. Recent Outbreaks. Indian and International Standards for food products.

Practical:

Water quality analysis physico-chemical and microbiological. Preparation of different types of media. Microbiological Examination of different food samples. Assessment of surface sanitation by swab/rinse method. Assessment of personal hygiene. Biochemical tests for identification of bacteria. Scheme for the detection of food borne pathogens. Preparation of plans for Implementation of FSMS - HACCP, ISO: 22000.

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Biopesticides & Biofertilizers

CO: COURSE OBJECTIVE

CO-1 Enhance Crop Productivity: Improve soil fertility and plant health to increase crop yields.

CO-2 Promote Sustainable Agriculture: Reduce reliance on chemical pesticides and fertilizers, fostering eco-friendly farming practices.

CO-3 Improve Soil Health: Restore and maintain soil microbial diversity and organic matter content.

CO-4 Reduce Environmental Impact: Minimize soil, water, and air pollution by avoiding harmful chemical inputs.

CO-5 Support Integrated Pest and Nutrient Management: Provide targeted pest control and nutrient supplementation without disrupting natural ecosystems.

CO-6 Enhance Crop Quality: Improve the nutritional value, flavor, and shelf life of agricultural produce.

CO-7 Promote Farmer and Consumer Safety: Reduce health risks associated with synthetic agrochemicals for farmers and consumers.

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Course Contents

Unit- I:

- History and concept of biopesticides. Importance, scope and potential of biopesticide. Definitions, concepts and classification of biopesticides viz. pathogen, botanical pesticides, and biorationales. Botanicals and their uses. Mass production technology of bio-pesticides. Virulence, pathogenicity and symptoms of entomopathogenic pathogens and nematodes.

Unit- II:

- Methods of application of biopesticides. Methods of quality control and Techniques of biopesticides. Impediments and limitation in production and use of biopesticide.

Unit- III:

- Biofertilizers - Introduction, status and scope. Structure and characteristic features of bacterial biofertilizers- Azospirillum, Azotobacter, Bacillus, Pseudomonas, Rhizobium and Frankia; Cynobacterialbiofertilizers- Anabaena, Nostoc, Hapalosiphon and fungal biofertilizers- AM mycorrhiza and ectomycorhiza. Nitrogen fixation -Free living and symbiotic nitrogen fixation.

Unit- IV:

- Mechanism of phosphate solubilization and phosphate mobilization, K solubilization. Productiontechnology: Strain selection, sterilization, growth and fermentation, mass production of carrier based and liquid biofertiizers.

Unit- V:

- FCO specifications and quality control of biofertilizers. Application technology for seeds, seedlings, tubers, sets etc. Biofertilizers -Storage, shelf life, quality control and marketing. Factors influencing the efficacy of biofertilizers.

Practical:

Isolation and purification of important biopesticides: Trichoderma Pseudomonas, Bacillus, Metarhyziumetc. and its production. Identification of important botanicals. Visit to biopesticide laboratory in nearby area. Field visit to explore naturally infected cadavers. Identification of entomopathogenic entities in field condition.Quality control of biopesticides. Isolation and purification of Azospirillum ,Azotobacter, Rhizobium, P-solubilizers and cyanobacteria. Mass multiplication and inoculums production of biofertilizers. Isolation of AM fungi -Wet sieving method and sucrose gradient method. Mass production of AMinoculants.

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Protected Cultivation

CO: COURSE OBJECTIVE

CO-1 Enhanced Crop Productivity: To increase the yield per unit area by optimizing environmental conditions like temperature, humidity, and light for plant growth.

CO-2 Quality Improvement: To produce high-quality crops with uniformity in size, shape, and color by minimizing environmental stress and pest damage.

CO-3 Extended Growing Seasons: To enable off-season production or extend the growing season of specific crops, ensuring a continuous supply to the market.

CO-4 Resource Efficiency: To conserve resources such as water and nutrients through efficient irrigation systems like drip irrigation and fertigation.

CO-5 Pest and Disease Management: To reduce crop loss by providing a physical barrier against pests and diseases, minimizing the need for chemical pesticides.

CO-6 Climate Resilience: To mitigate the adverse effects of extreme weather events such as frost, hail, excessive rain, or drought, ensuring stable crop production.

CO-7 Diversification and Innovation: To enable the cultivation of high-value crops, exotic vegetables, flowers, and fruits that might not thrive in open-field conditions due to climatic limitations.

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Course Contents

Unit- I:

- Protected cultivation- importance and scope, Status of protected cultivation in India and World types of protected structure based on site and climate. Cladding material involved in greenhouse/ poly house.

Unit- II:

- Greenhouse design, environment control, artificial lights, Automation. Soil preparation and management, Substrate management. Types of benches and containers. Irrigation and fertigation management.

Unit- III:

- Propagation and production of quality planting material of horticultural crops. Greenhouse cultivation of important horticultural crops – rose, carnation, chrysanthemum, gerbera, orchid, anthurium, lilium, tulip, tomato, bell pepper, cucumber, strawberry, pot plants, etc.

Unit- IV:

- Cultivation of economically important medicinal and aromatic plants. Off-season production of flowers and vegetables. Insect pest and disease management.

Practical:

Raising of seedlings and saplings under protected conditions, use of protrays in quality planting material production, Bed preparation and planting of crop for production, Inter cultural operations, Soil EC and pH measurement, Regulation of irrigation and fertilizers through drip, fogging ad misting.

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Micro propagation Technologies

CO: COURSE OBJECTIVE

CO-1 Mass Production of Plants: To produce a large number of genetically identical plants in a relatively short time, ensuring consistent traits and uniform quality.

CO-2 Preservation of Genetic Traits: To maintain and propagate plants with specific desirable characteristics, such as disease resistance, high yield, or ornamental value.

CO-3 Propagation of Rare or Endangered Species: To conserve and multiply species that are rare, endangered, or difficult to propagate through conventional methods.

CO-4 Production of Disease-Free Plants: To obtain pathogen-free plants by using meristem or shoot-tip cultures, particularly in cases where diseases are transmitted through seeds or vegetative propagation.

CO-5 Year-Round Production: To enable plant propagation irrespective of seasonal or environmental limitations, ensuring a continuous supply of plants.

CO-6 Development of Genetically Engineered Plants: To propagate transgenic plants or plants developed through genetic engineering techniques that may have enhanced traits such as pest resistance or stress tolerance.

CO-7 Facilitation of International Trade: To produce plants in sterile, contamination-free conditions that comply with quarantine regulations, allowing for the export and import of plants without spreading diseases or pests.

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Course Contents

Unit- I:

- Introduction, History, Advantages and limitations; Types of cultures (seed, embryo, organ, callus, cell),

Unit- II:

- Stages of micro-propagation, Axillary bud proliferation (Shoot tip and meristem culture, bud culture),Organogenesis (callus and direct organ formation),

Unit- III:

- Somatic embryogenesis, cell suspension cultures,

Unit- IV:

- Production of secondary metabolites, Somaclonal variation, Cryopreservation

Practical:

Identification and use of equipment in tissue culture Laboratory, Nutrition media composition, sterilization techniques for media, containers and small instruments, sterilization techniques forexplants, Preparation of stocks and working solution, Preparationof working medium, Culturing of explants: Seeds, shoot tip and single node, Callus induction, Induction of somatic embryos regeneration of whole plants from different explants, Hardening procedures.

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Hi-tech. Horticulture

CO: COURSE OBJECTIVE

CO-1 Enhancing Productivity: To maximize the yield of high-value crops by using advanced cultivation techniques, optimized resource management, and superior plant genetics.

CO-2 Efficient Resource Utilization: To promote the efficient use of inputs such as water, nutrients, and energy through technologies like drip irrigation, fertigation, and protected cultivation.

CO-3 Improved Quality of Produce: To achieve higher quality standards in terms of size, color, taste, and shelf life by leveraging precision agriculture and controlled environment farming.

CO-4 Sustainability: To reduce the environmental footprint of horticultural practices by promoting eco-friendly techniques such as organic farming, integrated pest management (IPM), and renewable energy sources.

CO-5 Diversification of Crops: To introduce and promote the cultivation of high-value exotic and off-season crops, expanding the market and income opportunities for farmers.

CO-6 Reduction in Post-Harvest Losses: To minimize post-harvest losses by adopting modern storage, packaging, and transportation methods.

CO-7 Technology Dissemination and Farmer Empowerment: To transfer advanced technologies to farmers, enhancing their skills and enabling them to adopt profitable and sustainable horticultural practices.

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Course Contents

Unit- I:

- Introduction & importance; Nursery management and mechanization; micro propagation of horticultural crops; Modern field preparation and planting methods,

Unit- II:

- Protected cultivation: advantages, controlled conditions, method and techniques, Micro irrigation systems and its components; EC, pH based fertilizer scheduling, canopy management, high density orcharding,

Unit- III:

- Components of precision farming: Remote sensing, Geographical Information System (GIS), Differential Geo-positioning System (DGPS),

Unit- IV:

- Variable Rate applicator (VRA), application of precision farming in horticulturalcrops (fruits, vegetables and ornamental crops); mechanized harvesting of produce.

Practical:

Types of polyhouses and shade net houses, Intercultural operations, tools and equipments identification and application, Micro propagation, Nursery-protrays, micro-irrigation, EC, pH based fertilizer scheduling, canopy management, visit to hi-tech orchard/nursery.

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Weed Management

CO: COURSE OBJECTIVE

CO-1 Understanding Weed Biology and Ecology: Explain the life cycles, reproduction strategies, and ecological roles of weeds in agricultural and non-agricultural ecosystems.

CO-2 Identification and Classification of Weeds: Equip students with the skills to identify common weed species and classify them based on their morphology, lifecycle, and habitat.

CO-3 Principles of Weed-Crop Competition: Analyze the impact of weeds on crop growth and yield through competition for resources like light, water, and nutrients.

CO-4 Weed Control Methods: Compare and evaluate various weed management strategies, including cultural, mechanical, biological, and chemical control methods.

CO-5 Integrated Weed Management (IWM): Design and implement integrated weed management plans that combine multiple control strategies to ensure long-term weed suppression and sustainable agriculture.

CO-6 Herbicide Use and Resistance Management: Examine the proper use of herbicides, their mode of action, environmental impact, and strategies to prevent or manage herbicide resistance.

CO-7 Economic and Environmental Impacts of Weed Management: Assess the cost-benefit analysis of weed control measures and their implications for environmental sustainability and agricultural productivity.

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Course Contents

Unit- I:

- Introduction to weeds, characteristics of weeds their harmful and beneficial effects on ecosystem. Classification, reproduction and dissemination of weeds.

Unit- II:

- Herbicide classification, concept of adjuvant, surfactant, herbicide formulation and their use. Introduction to mode of action of herbicides and selectivity.

Unit- III:

- Allelopathy and its application for weed management. Bio-herbicides and their application in agriculture. Concept of herbicide mixture and utility in agriculture.

Unit- IV:

- Herbicide compatibility with agro-chemicals and their application. Integration of herbicides with non chemical methods of weed management. Herbicide Resistance and its management.

Practical:

Techniques of weed preservation. Weed identification and their losses study. Biology of important weeds. Study of herbicide formulations and mixture of herbicide. Herbicide and agro- chemicals study. Shift of weed flora study in long term experiments. Study of methods of herbicide application, spraying equipments. Calculations of herbicide doses and weed control efficiency and weed index.

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System Simulation and Agro-advisory

CO: COURSE OBJECTIVE

CO-1 Understand System Simulation Basics: To introduce the fundamentals of system simulation, including types of models (e.g., discrete-event, continuous, hybrid), simulation techniques, and their applications in agricultural systems.

CO-2 Develop Simulation Models for Agricultural Systems: To develop and implement simulation models to represent agricultural processes such as crop growth, irrigation, pest management, and climate change impacts.

CO-3 Analyze and Interpret Simulation Data: To train students on analyzing simulation results, understanding model outputs, and interpreting data in the context of agricultural decision-making.

CO-4 Explore the Role of Agro-Advisory Systems: To provide a deep understanding of agro-advisory systems, their importance, and how they provide actionable insights to farmers for crop management, pest control, irrigation, and fertilization.

CO-5 Apply Simulation Techniques to Agro-Advisory Tools: To explore how simulation models can be integrated with agro-advisory systems to provide personalized, data-driven recommendations for farmers.

CO-6 Assess the Impact of Climate and Environmental Variables: To understand how environmental variables like weather, climate change, and soil conditions affect agricultural systems, and how to simulate their impacts for better planning and advisories.

CO-7 Evaluate and Design Decision Support Systems for Agriculture: To help students evaluate existing decision support systems and design new ones that leverage simulation models to optimize agricultural practices and improve farm productivity and sustainability.

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Course Contents

Unit- I:

- System Approach for representing soil-plant-atmospheric continuum, system boundaries, Crop models, concepts & techniques, types of crop models, data requirements, relational diagrams.

Unit- II:

- Evaluation of crop responses to weather elements; Elementary crop growth models; calibration, validation, verification and sensitivity analysis .Potential and achievable crop production- concept and modelling techniques for their estimation.

Unit- III:

- Crop production in moisture and nutrients limited conditions; components of soil water and nutrients balance. Weather forecasting, types, methods, tools & techniques, forecast verification;

Unit- IV:

- Value added weather forecast, ITK for weather forecast and its validity; Crop-Weather Calendars; Preparation of agro-advisory bulletin based on weather forecast. Use of crop simulation model for preparation of Agro-advisory and its effective dissemination.

Practical:

Preparation of crop weather calendars. Preparation of agro-advisories based on weatherforecast using various approaches and synoptic charts. Working with statistical and simulation models for crop growth. Potential & achievable production; yield forecasting, insect & disease forecasting models. Simulation with limitations of water and nutrient management options. Sensitivity analysis of varying weather and crop management practices. Use of statistical approaches in data analysis and preparation of historical, past and present meteorological data for medium range weather forecast. Feedback from farmers about the agro-advisory.

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Agricultural Journalism

CO: COURSE OBJECTIVE

CO-1 Understand Agricultural Issues and Trends: To familiarize students with the key issues, challenges, and trends in agriculture, including sustainability, food security, climate change, and technological advancements.

CO-2 Develop Writing and Reporting Skills: To teach students how to effectively research, write, and report on agricultural topics, ensuring clarity and accuracy while making complex subjects accessible to diverse audiences.

CO-3 Foster Multimedia Communication Abilities: To enable students to use various media formats—such as print, radio, television, and digital platforms—to communicate agricultural stories, including the use of social media for outreach.

CO-4 Critically Analyze Agricultural Policies and Practices: To provide students with the skills to critically assess agricultural policies, practices, and their impacts on rural communities, economies, and the environment.

CO-5 Enhance Ethical and Responsible Journalism: To instill a strong understanding of journalistic ethics, particularly in the context of reporting on agricultural issues, with a focus on balanced, fair, and transparent reporting.

CO-6 Cultivate Collaboration with Agricultural Stakeholders: To prepare students to work closely with farmers, agricultural businesses, government agencies, NGOs, and other stakeholders in the agricultural sector to gather information and enhance their stories.

CO-7 Promote Advocacy and Public Awareness: To empower students to use journalism as a tool for advocacy, raising awareness about critical agricultural issues and contributing to informed public discourse on topics such as food production, rural development, and environmental sustainability.

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Course Contents

Unit- I:

- Agricultural Journalism: The nature and scope of agricultural journalism characteristics and training of the agricultural journalist, how agricultural journalism is similar to and different from other types of journalism.

Unit- II:

- Newspapers and magazines as communication media: Characteristics; kinds and functions of newspapers and magazines, characteristics of newspaper and magazine readers. Form and content of newspapers and magazines: Style and language of newspapers and magazines, parts of newspapers and magazines.

Unit- III:

- The agricultural story: Types of agricultural stories, subject matter of the agricultural story, structure of the agricultural story. Gathering agricultural information: Sources of agricultural information, interviews, coverage of events, abstracting from research and scientific materials, wire services, other agricultural news sources.

Unit- IV:

- Writing the story: Organizing the material, treatment of the story, writing the news lead and the body, readability measures. Illustrating agricultural stories: Use of photographs, use of artwork (graphs, charts, maps, etc.), writing the captions. Editorial mechanics: Copy reading, headline and title writing, proofreading, lay outing.

Practical:

Practice in interviewing. Covering agricultural events. Abstracting stories from research and scientific materials and from wire services. Writing different types of agricultural stories. Selecting pictures and artwork for the agricultural story. Practice in editing, copy reading, headline and title writing, proofreading, layouting. Testing copy with a readability formula. Visit to a publishing office.

Shobhit University
EDUCATION EMPOWERS

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Annexure-3 (Item BOS-13.3)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2019-2020)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor,	9675000234 amit.tomar371@gmail.com

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		GMV Rampur	
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur.	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversit

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			y.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Vishvash Chand	928609396 vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar	9761211114

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		Assistant Professor GMV Rampur	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	96904123508090506371 rohit.saini@shobhituniversity.ac.in

Sr.	Course code	Name, Designation,	Contact number with E. Mail ID

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No.	with Title	Institution and Correspondence address of the Paper Setter/Examiner	
1.	Crop Production Technology – I *(Kharif Crops)* (BAG-201)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amit.kumar@gmail.com
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics	External Examiner 1. Manoj Kumar	8090506371 manoj.kumar@ shobhituniversity.ac.in

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	(BAG-207)	Associate Professor SUM	
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum University Roorki	9557471931 asheeshmalik.9@gmail.com
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and	External Examiner 1. Dr. Shiva	8937877339 shiva@shobhituniversity.ac.in

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	Disaster Management (BAG-213)	Associate Professor SUM.	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com
		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID

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1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.com
		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University	9557471931 asheeshmalik.9@gmail.com

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		Roorkee	
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-309)	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com
		2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. Kamlesh Shukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. Deepa Saini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890

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			shivani@shobhituniversity.ac.in
8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsing2006@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Neeraj Kumar	9690412350 neerajmandhar123@gmail.com

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Signed by:

(Chairman BOS)

(Vice Chancellor)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH
School of Agriculture and Environmental Sciences

Date: 20/12/2019

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 30.12.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 13th BOS Meeting held on 25 June 2019 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report:
3. Analysis of the feedback on curriculum from stakeholders:
4. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2020.**
5. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SHOBHIT UNIVERSITY GANGOH * H.o.D. *

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 20/12/2019

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 30.12.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SHOBHIT UNIVERSITY GANGOH H.o.D.

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 20/12/2019

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

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We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you,

Warm regards,
Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture * H.o.D. *

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 30/12/2019

Attendance Sheet (14th BOS Meeting)

Sr. No	Name	External/Internal Member	Signature
1.	Prof.(Dr.) J. P. Singh	External	
2.	Prof.(Dr.) Rajbir Singh	External	
3.	Mr. Vikas Kumar	Internal	
4.	Mr. Amit Kumar	Internal	

Chairman

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 30.12.2019

Minutes of the Meeting of Board of Studies

14th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 30th Dec. 2019.The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
2.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External Expert
4.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
5.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Shobhit University
EDUCATION EMPOWERS

Babu Vijendra Marg, Adarsh Institutional
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Item BOS 14.1: Approval of the Minutes of the 13th BOS Meeting held on 25 June 2019 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 14.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 14.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 14.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. For session **Jan. to June 2020.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 14.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Environmental Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.O.D. ★

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH ★ REGISTRAR ★ Saharanpur (U.P.) ★

(Dean Academies)

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Annexure-1 (Item BOS 14.1)

School of Agriculture & Environmental Sciences

Date: 25.06.2019

Minutes of the Meeting of Board of Studies

13th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 25th June 2019. The following members were present in the meeting:

4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
5.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External expert
6.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External Expert
7.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
8.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 13.1: Approval of the Minutes of the 12th BOS Meeting held on 24 Dec, 2018 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 13.2: Approval of Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester updated w.e.f the Academic Session 2019-20 {Annexure-2}

- **BOS members approved Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester.**

Item BOS 13.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Agriculture Hons. for the session **July to December 2019.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 13.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Allied Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH (U.P.) ★ REGISTRAR ★ Saharanpur

(Dean Academics)

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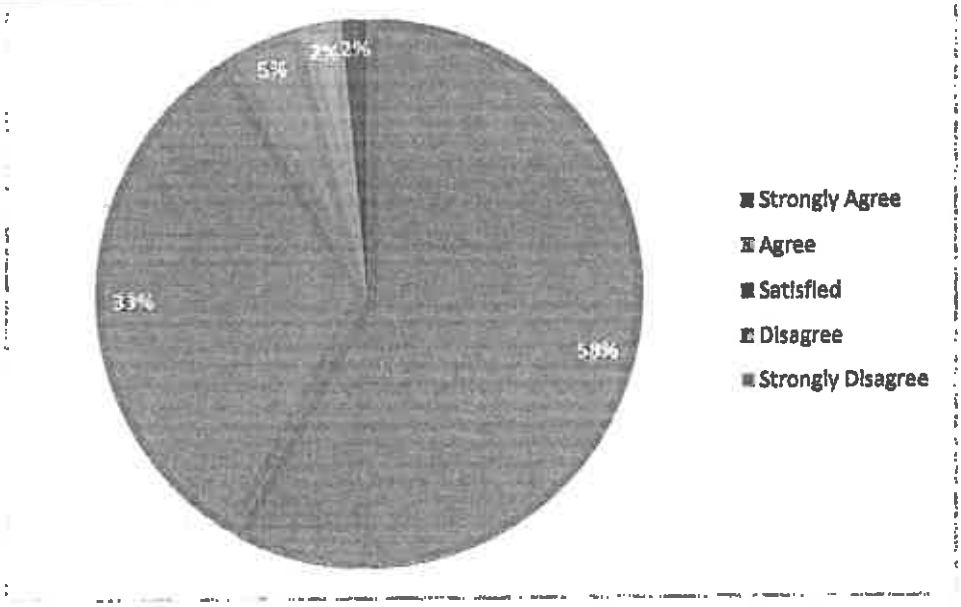
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Annexure-2 (Item BOS 14.2 & 14.3)

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	58.09524	33.33333	4.761905	2.5	1.5

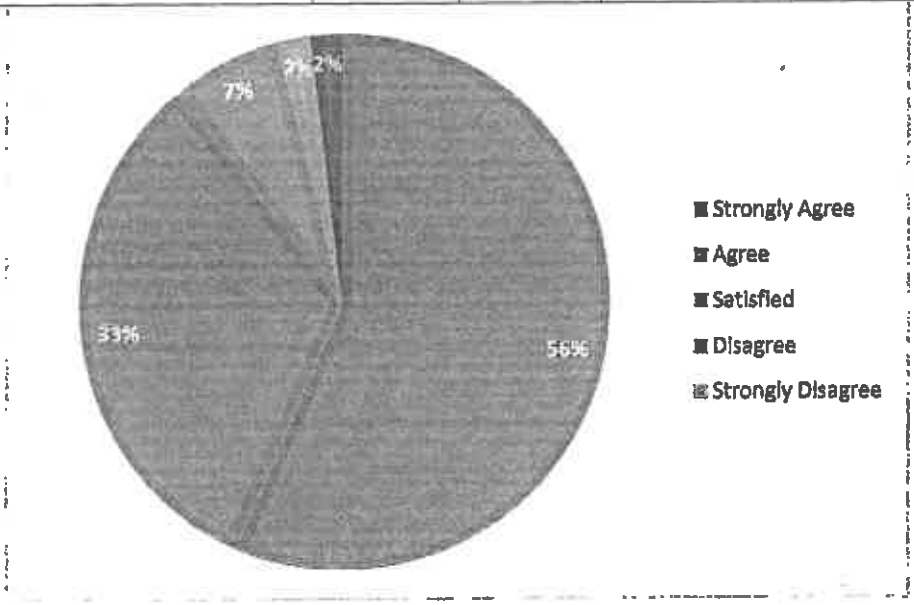


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Q.2. How do you rate the course outcomes and relevance to the course content?

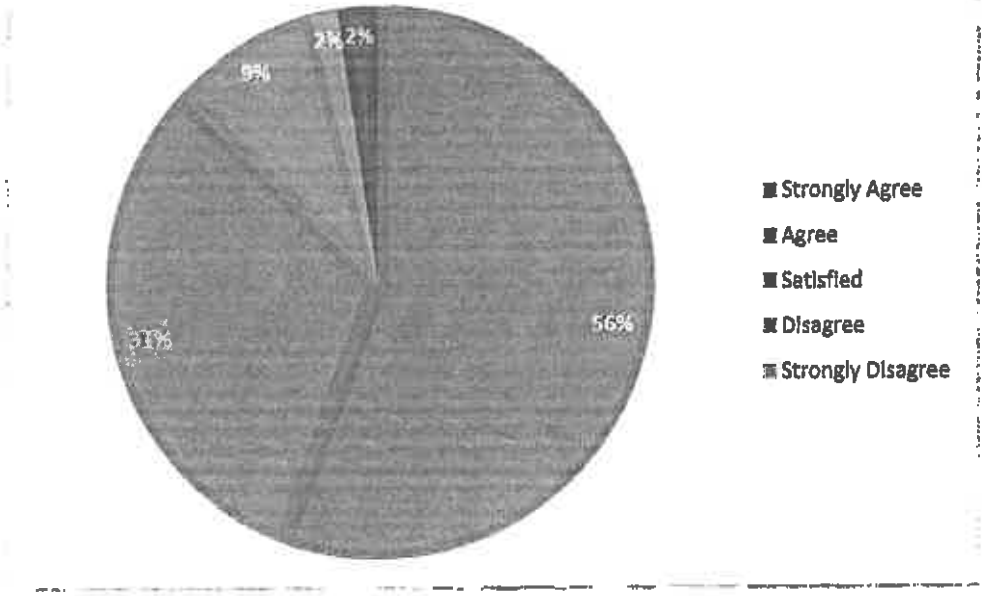
Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	56.66667	32.85714	6.666667	2	2



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Q.3. How do you rate the sequence of units in the courses?

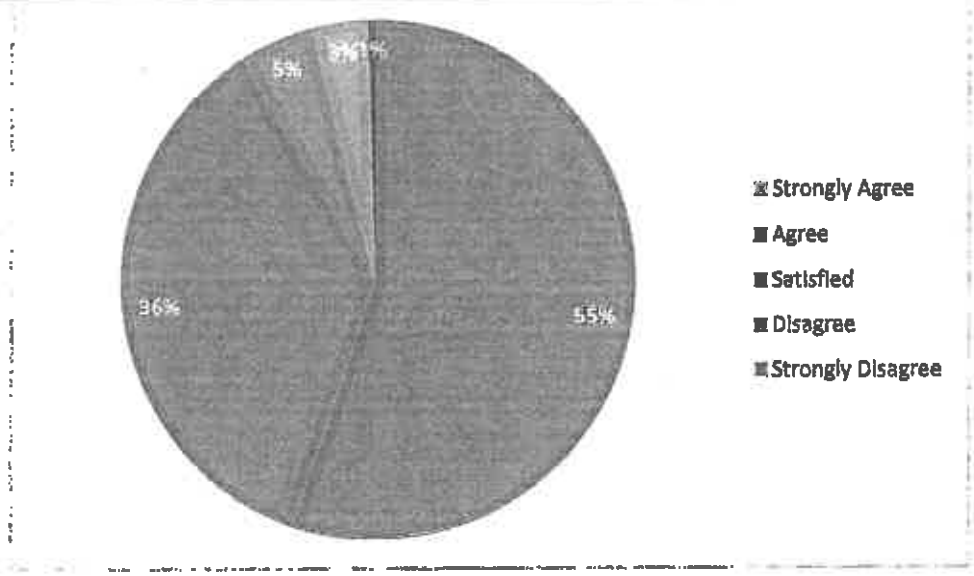
Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55.71429	31.42857	9.047619	1.5	2.5



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Q.4. How do you rate the credits allotted to individual courses?

Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55.2381	36.19048	4.761905	3.5	0.5

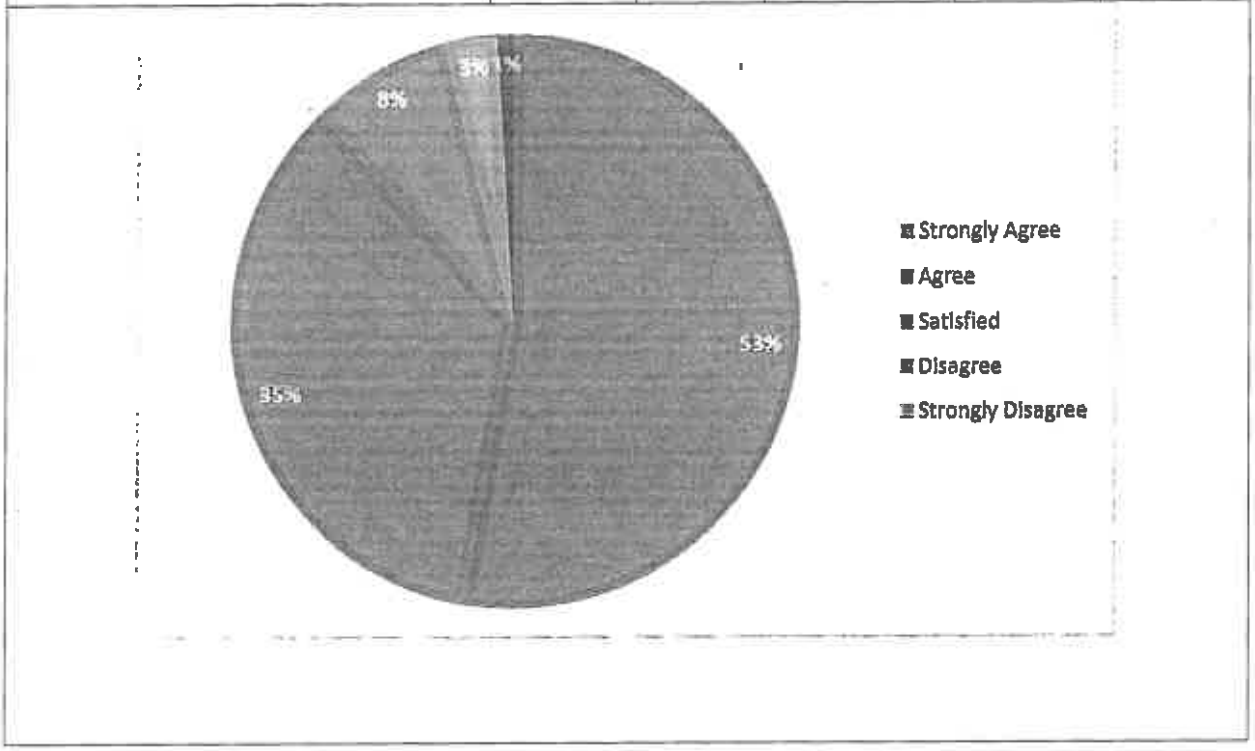


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Q.5. Does the curriculum focus on employability/career orientation?

Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.85714	35.2381	8.095238	3	1

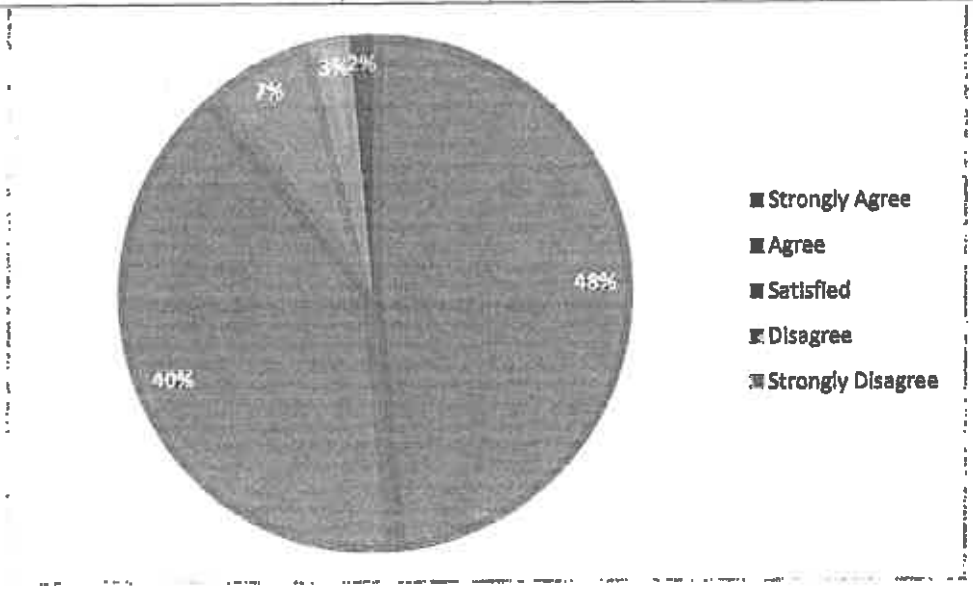


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Q.6. Does the curriculum focus on skill development/entrepreneurship?

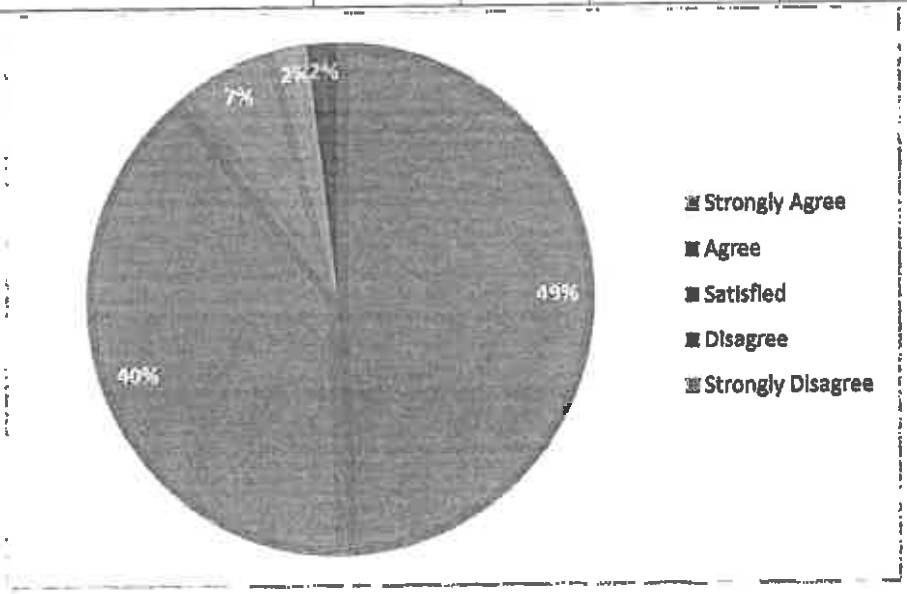
Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.57143	40.47619	7.142857	2.5	1.5



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Q.7. Does the curriculum have satisfactory number of elective courses?

Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.52381	40	6.666667	2	2

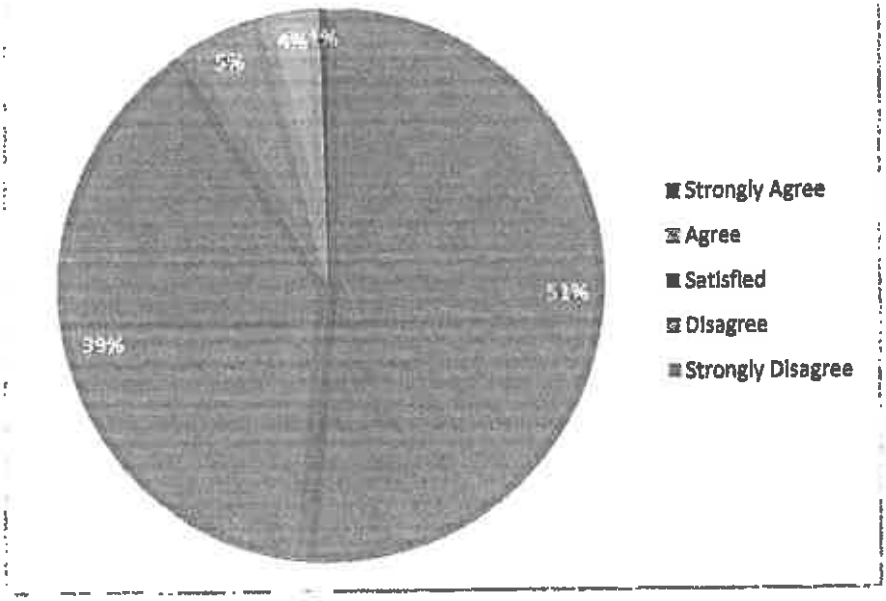


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Q.8. Does the curriculum focus on life skill or help in value addition?

Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	51.42857	39.52381	5.238095	3.5	0.5



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Course Contents

Unit- I:

- Organic farming, principles and its scope in India; Initiatives taken by Government (central/ state), NGOs and other organizations for promotion of organic agriculture; Organic ecosystem and their concepts;

Unit- II:

- Organic nutrient resources and its fortification; Restrictions to nutrient use in organic farming; Choice of crops and varieties in organic farming;

Unit- III:

- Fundamentals of insect, pest, disease and weed management under organic mode of production; Operational structure of NPOP;

Unit- IV:

- Certification process and standards of organic farming; Processing, leveling,economic considerations and viability, marketing and export potential of organicproducts.

Practical:

Visit of organic farms to study the various components and their utilization; Preparation of enrich compost, vermin-compost, bio-fertilizers/bio-inoculants and their quality analysis; Indigenous technology knowledge (ITK) for nutrient, insect, pest disease and weed management; Cost of organic production system; Post harvest management; Quality aspect, grading, packaging and handling.

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BAG-318: Farm Management, Production & Resource Economics

CO: COURSE OBJECTIVES

CO-1 Understand the Principles of Farm Management: Equip students with knowledge of the core principles of managing a farm, including planning, organizing, directing, and controlling agricultural operations.

CO-2 Analyze Agricultural Production Systems: Develop the ability to assess and optimize production systems to improve efficiency and productivity in farm enterprises.

CO-3 Apply Economic Principles to Resource Allocation: Train students to apply economic concepts to allocate resources effectively, ensuring sustainability and profitability in agriculture.

CO-4 Evaluate Financial Performance of Farms: Enable students to use financial tools and techniques to evaluate the profitability, liquidity, and solvency of farm businesses.

CO-5 Understand Risk and Uncertainty in Agriculture: Teach strategies to manage risks and uncertainties in farming caused by market fluctuations, climate variability, and policy changes.

CO-6 Optimize Resource Use for Sustainable Farming: Instill knowledge about sustainable use of land, labor, capital, and technology to achieve long-term agricultural viability.

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Course Contents

Unit- I:

- Meaning and concept of farm management, objectives and relationship with other sciences. Meaning and definition of farms, its types and characteristics, factor determining types and size of farms. Principles of farm management: concept of production function and its type, use of production function in decision-making on a farm, factor-product, factor-factor and product- product relationship, law of equi-marginal/or principles of opportunity cost and law of comparative advantage.

Unit- II:

- Meaning and concept of cost, types of costs and their interrelationship, importance of cost in managing farm business and estimation of gross farm income, net farm income, family labour income and farm business income. Farm business analysis: meaning and concept of farm income and profitability, technical and economic efficiency measures in crop and livestock enterprises.

Unit- III:

- Importance of farm records and accounts in managing a farm, various types of farm records needed to maintain on farm, farm inventory, balance sheet, profit and loss accounts. Meaning and importance of farm planning and budgeting, partial and complete budgeting, steps in farm planning and budgeting-linear programming, appraisal of farm resources, selection of crops and livestock's enterprises. Concept of risk and uncertainty occurs in agriculture production, nature and sources of risks and its management strategies, Crop/livestock/machinery insurance

Unit- IV:

- Weather based crop insurance, features, determinants of compensation. Concepts of resource economics, differences between NRE and agricultural economics, unique properties of natural resources. Positive and negative externalities in agriculture, Inefficiency and welfare loss, solutions, Important issues in economics andmanagement of common property resources of land, water, pasture and forest resources etc.

Practical:

Preparation of farm layout. Determination of cost of fencing of a farm. Computation of depreciation cost of farm assets. Application of equi-marginal returns/opportunity cost principle in allocation of farm resources. Determination of most profitable level of inputs use in a farm production process. Determination of least cost combination of inputs. Selection of most profitable enterprise combination. Application of cost principles including CACP concepts in the estimation of cost of crop and livestock enterprises. Preparation of farm plan and budget, farm records and accounts and profit & loss accounts. Collection and analysis of data on various resources in India.

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BAG-320: Principles of Food Science and Nutrition

CO: COURSE OBJECTIVES

CO-1 Understand the Fundamentals of Food Science: Explain the physical, chemical, and biological principles underlying food systems and their application in food production and processing.

CO-2 Explore Nutritional Requirements: Analyze the role of essential nutrients in human health and their impact on growth, development, and disease prevention.

CO-3 Evaluate Food Quality and Safety: Assess factors that affect food quality, safety, and shelf life, including food preservation techniques and contamination risks.

CO-4 Investigate Food Processing Methods: Identify and describe common food processing methods and their influence on nutritional value, sensory properties, and food functionality.

CO-5 Examine the Role of Food in Society: Discuss the cultural, social, and economic factors that influence food choices and dietary habits globally.

CO-6 Apply Principles of Nutrition: Design balanced diets and recommend nutritional interventions based on scientific evidence to address specific health conditions or goals.

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Course Contents

Unit- I:

- Concepts of Food Science (definitions, measurements, density, phase change, pH, osmosis, surface tension, colloidal systems etc.);

Unit- II:

- Food composition and chemistry (water, carbohydrates, proteins, fats, vitamins, minerals, flavours, colours, miscellaneous bioactives, important reactions);

Unit- III:

- Food microbiology (bacteria, yeast, moulds, spoilage of fresh & processed foods, Production of fermented foods);

Unit- IV:

- Principles and methods of food processing and preservation (use of heat, low temperature, chemicals, radiation, drying etc.); Food and nutrition, Malnutrition (over and under nutrition), nutritional disorders;

Unit- V:

- Energy metabolism (carbohydrate, fat, proteins); Balanced/ modified diets, Menu planning, New trends in food science and nutrition.

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BAG-344: Agricultural Journalism

CO: COURSE OBJECTIVE

CO-1 Understand Agricultural Issues and Trends: To familiarize students with the key issues, challenges, and trends in agriculture, including sustainability, food security, climate change, and technological advancements.

CO-2 Develop Writing and Reporting Skills: To teach students how to effectively research, write, and report on agricultural topics, ensuring clarity and accuracy while making complex subjects accessible to diverse audiences.

CO-3 Foster Multimedia Communication Abilities: To enable students to use various media formats—such as print, radio, television, and digital platforms—to communicate agricultural stories, including the use of social media for outreach.

CO-4 Critically Analyze Agricultural Policies and Practices: To provide students with the skills to critically assess agricultural policies, practices, and their impacts on rural communities, economies, and the environment.

CO-5 Enhance Ethical and Responsible Journalism: To instill a strong understanding of journalistic ethics, particularly in the context of reporting on agricultural issues, with a focus on balanced, fair, and transparent reporting.

CO-6 Cultivate Collaboration with Agricultural Stakeholders: To prepare students to work closely with farmers, agricultural businesses, government agencies, NGOs, and other stakeholders in the agricultural sector to gather information and enhance their stories.

CO-7 Promote Advocacy and Public Awareness: To empower students to use journalism as a tool for advocacy, raising awareness about critical agricultural issues and contributing to informed public discourse on topics such as food production, rural development, and environmental sustainability.

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Course Contents

Unit- I:

- Agricultural Journalism: The nature and scope of agricultural journalism characteristics and training of the agricultural journalist, how agricultural journalism is similar to and different from other types of journalism.

Unit- II:

- Newspapers and magazines as communication media: Characteristics; kinds and functions of newspapers and magazines, characteristics of newspaper and magazine readers. Form and content of newspapers and magazines: Style and language of newspapers and magazines, parts of newspapers and magazines.

Unit- III:

- The agricultural story: Types of agricultural stories, subject matter of the agricultural story, structure of the agricultural story. Gathering agricultural information: Sources of agricultural information, interviews, coverage of events, abstracting from research and scientific materials, wire services, other agricultural news sources.

Unit- IV:

- Writing the story: Organizing the material, treatment of the story, writing the news lead and the body, readability measures. Illustrating agricultural stories: Use of photographs, use of artwork (graphs, charts, maps, etc.), writing the captions. Editorial mechanics: Copy reading, headline and title writing, proofreading, lay outing.

Practical:

Practice in interviewing. Covering agricultural events. Abstracting stories from research and scientific materials and from wire services. Writing different types of agricultural stories. Selecting pictures and artwork for the agricultural story. Practice in editing, copy reading, headline and title writing, proofreading, layouting. Testing copy with a readability formula. Visit to a publishing office.

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B.Sc. (Ag.) VII Semester

BAG-401 General orientation & on campus training by different Faculties

CO: COURSE OBJECTIVES

CO-1 Familiarization with the Institution: Introduce students to the institution's culture, values, and infrastructure. Provide an overview of various academic and co-curricular resources available on campus.

CO-2 Interdisciplinary Exposure: Facilitate interaction with faculty members from different disciplines to broaden students' academic perspectives. Encourage understanding of multidisciplinary approaches problem-solving and learning.

CO-3 Skill Development: Enhance communication, teamwork, and interpersonal skills through interactive sessions. Introduce students to tools and techniques relevant to academic and professional success.

CO-4 Guidance on Academic Pathways: Offer insights into academic programs, research opportunities, and career trajectories. Provide orientation on the curriculum, evaluation systems, and academic expectations.

CO-5 Motivation and Goal Setting: Inspire students through lectures and interactions with experienced faculty. Help students set personal and academic goals for their educational journey.

CO-6 Community Building: Create a sense of belonging and engagement among students by fostering peer and faculty interactions. Encourage participation in campus life, clubs, and other student activities.

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BAG-403 Village attachment

CO: COURSE OBJECTIVES

CO-1 Understanding Rural Life: To familiarize students with the day-to-day lifestyle, culture, traditions, and challenges faced by rural communities.

CO-2 Knowledge of Agricultural Practices: To observe and analyze the farming systems, cropping patterns, and the use of modern and traditional agricultural techniques.

CO-3 Socio-Economic Awareness: To assess the socio-economic structure of rural areas, including income sources, living standards, education, healthcare, and social organization.

CO-4 Community Engagement: To encourage students to interact with farmers, laborers, and village authorities to understand their perspectives and aspirations.

CO-5 Identification of Problems: To identify key issues in rural development, such as water scarcity, soil degradation, lack of education, or health facilities, and suggest possible solutions.

CO-6 Application of Knowledge: To apply classroom knowledge in real-life rural scenarios, enhancing problem-solving skills and practical learning.

CO-7 Promoting Sustainable Practices: To educate villagers about sustainable agricultural and livelihood practices, emphasizing the importance of environmental conservation.

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BAG-405 Unit attachment in University/College/KVK / Research Station Attachment

CO: COURSE OBJECTIVES

CO-1 Skill Development: Equip students with practical knowledge and skills in agricultural practices, laboratory techniques, and modern research methodologies.
Develop competencies in handling scientific instruments and performing field trials.

CO-2 Practical Knowledge Application: Provide exposure to real-life applications of theoretical concepts learned in classrooms. Enable students to analyze and solve on-ground agricultural challenges.

CO-3 Research Familiarity: Introduce students to research station operations and research methodologies, including data collection, analysis, and reporting.
Foster a research-oriented mindset.

CO-4 Knowledge of Extension Services: Understand the role of Krishi Vigyan Kendras (KVKs) in technology dissemination and farmer training. Participate in outreach programs, on-farm demonstrations, and training sessions conducted for farmers.

CO-5 Collaborative Learning: Facilitate interaction with agricultural scientists, extension workers, and farmers to gain diverse perspectives on agriculture. Promote teamwork in multidisciplinary agricultural projects.

CO-6 Exposure to Advanced Techniques: Familiarize students with advanced agricultural techniques like precision farming, integrated pest management, and sustainable resource management. Gain insights into recent innovations in agriculture and their implementation.

CO-7 Career Readiness: Prepare students for future roles in academics, research, and extension services. Enhance employability through experience in professional agricultural setups.

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BAG-407 Plant Clinic

CO: COURSE OBJECTIVES

CO-1 Diagnosis of Plant Problems: Develop the ability to identify symptoms of diseases, pests, nutrient deficiencies, and abiotic stresses in plants.

CO-2 Integrated Pest and Disease Management (IPDM): Understand and implement IPDM strategies to manage plant health issues sustainably.

CO-3 Understanding Plant-Pathogen Interactions: Learn the mechanisms of how pathogens, pests, and environmental factors affect plant growth and productivity.

CO-4 Use of Diagnostic Tools and Techniques: Train in the application of modern diagnostic tools, such as microscopy, molecular methods, and field-based techniques.

CO-5 Prescribing Solutions: Gain expertise in recommending suitable control measures, including chemical, biological, and cultural practices.

CO-6 Monitoring and Early Warning Systems: Learn to establish monitoring systems for early detection of plant health problems.

CO-7 Advisory Services: Prepare to provide guidance to farmers and stakeholders on plant health management.

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BAG-409 Agro-Industrial Attachment

CO: COURSE OBJECTIVES

CO-1 Practical Exposure: Provide students with hands-on experience in agro-industrial operations, enabling them to understand the real-world functioning of agriculture-related industries.

CO-2 Skill Development: Develop technical and managerial skills through active participation in various industrial processes, including production, processing, and quality management.

CO-3 Industry-Academia Interface: Strengthen the connection between educational institutions and industries to align academic training with industrial requirements.

CO-4 Understanding Industrial Processes: Familiarize students with the working principles, technologies, and machinery used in agro-industrial units, such as food processing, agrochemicals, or farm machinery.

CO-5 Professional Networking: Build relationships with industry professionals, which can help students understand market trends, entrepreneurship opportunities, and career prospects.

CO-6 Problem-Solving Ability: Encourage students to identify and analyze real-time challenges in agro-industries and propose innovative solutions.

CO-7 Entrepreneurship Development: Inspire entrepreneurial mindset by exposing students to industrial strategies, supply chain mechanisms, and business models in agriculture.

CO-8 Value Addition Awareness: Help students understand the importance of value addition in agriculture and its role in enhancing income and sustainability.

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BAG-411 Project Report Preparation, Presentation and Evaluation General Orientation & On campus training by different Faculties

CO: COURSE OBJECTIVES

CO-1 Skill Development in Research Methodology: Equip students with the knowledge to design and implement research projects systematically. Teach proper techniques for data collection, analysis, and interpretation.

CO-2 Enhancing Report Writing Skills: Develop the ability to prepare well-structured, concise, and comprehensive project reports. Focus on correct formatting, citation, and documentation practices.

CO-3 Effective Presentation Techniques: Train students to present their research findings clearly and confidently using various tools (e.g., PowerPoint, charts, graphs). Improve communication skills for academic and professional contexts.

CO-4 Evaluation and Feedback Integration: Enable students to critically evaluate research work (their own and others'). Incorporate constructive feedback to refine their research and reporting skills.

CO-5 Team Collaboration and Interdisciplinary Exposure: Promote teamwork and exchange of ideas among peers. Foster an understanding of interdisciplinary approaches to problem-solving.

CO-6 Practical Exposure through Faculty Training: Gain insights into specialized topics through on-campus training sessions conducted by expert faculty members. Learn from real-world case studies, faculty experiences, and practical demonstrations.

CO-7 Career Readiness: Prepare students for professional roles requiring project planning, execution, and reporting skills. Build confidence in handling future academic or industrial projects.

CO-8 Critical Thinking and Problem Solving: Develop analytical skills to identify challenges and propose solutions within a project framework.

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Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)

- This program will be undertaken by the students during the seventh semester for a total duration of 20 weeks with a weightage of 0+20 credit hours in two parts, namely, RAWE and AIA.
- It will consist of general orientation and on-campus training by different faculties followed by village attachment/unit attachment in university/ college/ KVK or a research station.
- The students would be attached with the agro-industries to get an experience of the industrial environment and working.
- Due weightage in terms of credit hours will be given depending upon the duration of stay of students in villages/ agro-industries.
- At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation.

The Rural Agricultural Work Experience (RAWE) helps the students primarily to understand the rural situations, status of agricultural technologies adopted by the farmers to prioritize the farmers' problems and to develop skills & attitude of working with farm families for overall development in rural area. The timings for RAWE can be flexible for specific regions to coincide with the main cropping season.

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RAWE Component-I: Village Attachment Training Programme

S. No	Activity	Duration
1	Orientation and Survey of Village	1 week
2	Agronomical Interventions	1 week
3	Plant Protection Interventions	1 week
4	Soil Improvement Interventions (Soil sampling and testing)	1 week
5	Fruit and Vegetable production interventions	1 week
6	Food Processing and Storage interventions	
7	Animal Production Interventions	1 week
8	Extension and Transfer of Technology activities	1 week

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- Students shall be placed in Agro-and Cottage industries and Commodities Boards for 03 weeks.
- Industries include Seed/Sapling production, Pesticides-insecticides, Post-harvest-processing- value addition, Agri-finance institutions, etc.

Activities and Tasks during Agro-Industrial Attachment Programme

- Acquaintance with industry and staff
- Study of structure, functioning, objective and mandates of the industry
- Study of various processing units and hands-on trainings under supervision of industry staff
- Ethics of industry
- Employment generated by the industry
- Contribution of the industry promoting environment
- Learning business network including outlets of the industry
- Skill development in all crucial tasks of the industry
- Documentation of the activities and task performed by the students
- Performance evaluation, appraisal and ranking of students

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B.Sc. (Ag.) VIII Semester

BAG-402 Production Technology for Bioagents and Biofertilizer

CO: COURSE OBJECTIVES

CO-01 Understanding Bioagents and Biofertilizers: Familiarize students with the concept, types, and importance of bioagents (e.g., biocontrol agents like Trichoderma, Bacillus) and biofertilizers (e.g., Rhizobium, Azotobacter, Mycorrhiza).

CO-02 Production Technologies: Equip students with knowledge about the production processes, culture techniques, and maintenance of bioagents and biofertilizers under laboratory and industrial conditions.

CO-03 Formulation and Quality Control: Teach methods for the formulation, packaging, and quality assessment of bioagents and biofertilizers to ensure their efficacy and shelf life.

CO-04 Application Techniques: Train students in the effective application methods of bioagents and biofertilizers in agriculture for sustainable crop production.

CO-05 Environmental and Economic Benefits: Highlight the role of bioagents and biofertilizers in reducing chemical inputs, improving soil health, enhancing crop productivity, and promoting eco-friendly agricultural practices.

CO-06 Entrepreneurial Opportunities: Encourage students to explore entrepreneurship in the biofertilizer and bioagent production sector as a sustainable business model.

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BAG-404 Seed Production and Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Seed Science: To provide a thorough understanding of the principles of seed biology, including seed development, physiology, and germination.

CO-02 Seed Production Techniques: To learn the methodologies and technologies used in the production of quality seeds for various crops.

CO-03 Seed Certification and Quality Control: To understand the standards, procedures, and practices involved in seed certification, labeling, and maintaining quality standards.

CO-04 Seed Storage and Preservation: To study the principles and techniques of seed storage, maintaining seed viability, and longevity under various conditions.

CO-05 Hybrid Seed Production: To explore techniques for hybrid seed production, including pollination control mechanisms and genetic purity maintenance.

CO-06 Seed Health and Testing: To familiarize students with seed testing protocols for germination, vigor, purity, and health.

CO-07 Role in Crop Improvement: To highlight the role of quality seed production in improving crop yield, disease resistance, and overall agricultural productivity.

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BAG-406 Mushroom Cultivation Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Mushroom Biology: Learn about the taxonomy, morphology, and physiology of edible and medicinal mushrooms. Understand the ecological role and nutritional importance of mushrooms.

CO-02 Cultivation Techniques: Develop skills in the preparation of substrates for mushroom cultivation. Understand the methods of spawn production and management. Learn cultivation practices for different types of mushrooms (e.g., button, oyster, shiitake, and milky mushrooms).

CO-03 Post-Harvest Management: Gain knowledge about harvesting, processing, and packaging techniques. Explore value-added products and storage methods to enhance shelf life.

CO-04 Disease and Pest Management: Understand common diseases, pests, and environmental issues affecting mushroom production. Learn preventive and curative measures.

CO-05 Economic and Entrepreneurial Skills: Develop an understanding of the commercial potential of mushroom cultivation. Gain knowledge of cost-effective production, market trends, and business planning. Explore opportunities for small-scale and large-scale entrepreneurship.

CO-06 Sustainability and Waste Utilization: Learn about sustainable practices in mushroom cultivation. Explore the use of agricultural waste and by-products as substrates for cultivation.

CO-07 Practical Applications and Hands-on Training: Engage in hands-on training for setting up mushroom farms and spawn production units.

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BAG-408 Soil, Plant, Water and Seed Testing

CO: COURSE OBJECTIVES

CO-01 Understand Soil Testing: Develop expertise in analyzing soil physical, chemical, and biological properties. Provide recommendations for sustainable soil fertility management based on test results.

CO-02 Plant Testing and Analysis: Learn to assess plant tissue for nutrient status to identify deficiencies, toxicities, or imbalances. Integrate plant analysis data with soil tests for efficient nutrient management.

CO-03 Water Testing: Evaluate water quality parameters like pH, electrical conductivity, salinity, and contaminant levels for agricultural use. Understand the suitability of water for irrigation and its impact on soil and crop health.

CO-04 Seed Testing: Develop skills in determining seed quality, including germination percentage, vigor, moisture content, and purity. Learn methods to ensure high-quality seed production for better crop yields.

CO-05 Promote Sustainable Agriculture: Integrate testing practices to make informed decisions for sustainable and environmentally friendly farming practices.

CO-06 Enhance Research and Analytical Skills: Train in the use of advanced instruments and methodologies for precise analysis. Foster critical thinking and problem-solving in agricultural resource management.

CO-07 Policy and Advisory Role: Equip participants to work as advisors or policymakers in agriculture, ensuring resource-efficient and sustainable practices are adopted at local and regional levels.

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BAG-410 Commercial Beekeeping

CO: COURSE OBJECTIVES

CO-01 Introduction to Beekeeping: Understanding the fundamentals of beekeeping, including bee biology, behavior, and the role of bees in agriculture and biodiversity.

CO-02 Bee Management Practices: Learning how to manage bee colonies effectively for honey production, pollination, and other byproducts like beeswax, propolis, and royal jelly.

CO-03 Hive Management: Training on how to maintain and manage beehives, including setting up, inspecting, and maintaining healthy hives for maximum productivity.

CO-04 Disease and Pest Control: Understanding common diseases and pests that affect bees and how to manage them to ensure a thriving colony.

CO-05 Pollination Services: Exploring the commercial aspects of pollination services for crops, especially for fruit, vegetable, and seed production.

CO-06 Honey Harvesting and Processing: Learning the best practices for harvesting honey and other bee products, followed by methods of extraction, processing, and packaging for sale.

CO-07 Marketing and Business Skills: Developing the skills needed to run a successful commercial beekeeping operation, including market analysis, business planning, and product distribution.

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BAG-412 Poultry Production Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Poultry Husbandry: Teaching the basics of poultry farming, including the care, breeding, and management of poultry species such as chickens, ducks, turkeys, and geese.

CO-02 Poultry Nutrition: Understanding the nutritional requirements of poultry for different stages of growth (chicks, growers, and layers), including feed formulation and feeding techniques.

CO-03 Poultry Health Management: Learning about common diseases in poultry, their prevention, and control measures, along with vaccination schedules and biosecurity practices.

CO-04 Poultry Breeding: Gaining knowledge of selective breeding techniques for improving traits like egg production, meat quality, and disease resistance.

CO-05 Egg and Meat Production: Developing the skills required to manage egg-laying and meat-producing flocks, ensuring high productivity and quality.

CO-06 Poultry Farm Management: Acquiring skills in managing a poultry farm, including housing design, waste management, record-keeping, and financial management.

CO-07 Poultry Processing and Marketing: Understanding the steps involved in processing poultry products (eggs, meat) for market readiness, along with packaging, storage, and marketing strategies.

CO-08 Sustainable Practices: Promoting environmentally sustainable poultry farming practices, including waste management, resource optimization, and minimizing environmental impact.

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BAG-414 Commercial Horticulture

CO: COURSE OBJECTIVES

CO-01 Understanding Horticultural Practices: Learn about the scientific principles and techniques involved in the cultivation of various horticultural crops, including soil preparation, irrigation, fertilization, and pest management.

CO-02 Business and Economic Aspects: Develop the ability to assess the economic viability of horticultural ventures, including cost analysis, market trends, and profitability. Understanding the economics of large-scale horticultural production is crucial for success in commercial farming.

CO-03 Sustainable Practices: Focus on the adoption of sustainable farming methods, such as organic farming, integrated pest management (IPM), and water conservation techniques, ensuring long-term productivity without compromising environmental health.

CO-04 Advanced Technologies: Explore the use of modern technologies in horticulture, including greenhouse production, hydroponics, precision agriculture, and the application of biotechnology in crop improvement.

CO-05 Post-Harvest Management: Understand the techniques for post-harvest handling, storage, and transportation to reduce losses and maintain product quality, which is key to the success of commercial horticultural enterprises.

CO-06 Market and Supply Chain Management: Gain insights into market demand, packaging, distribution, and logistics involved in the commercialization of horticultural products, including export opportunities.

CO-07 Entrepreneurial Skills: Equip students with entrepreneurial skills to start their own horticulture-based ventures, focusing on innovation, business planning, and financial management.

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BAG-416 Floriculture and Landscaping

CO: COURSE OBJECTIVES

CO-01 Understanding of Floriculture: To provide students with knowledge about the production, cultivation, and management of flowers and ornamental plants. This includes learning about plant varieties, their growth requirements, and techniques for effective flower cultivation.

CO-02 Landscape Design Principles: To teach the principles of designing functional, aesthetically pleasing, and sustainable landscapes. This covers aspects such as site analysis, plant selection, design concepts, and landscaping elements (e.g., pathways, fountains, and sculptures).

CO-03 Techniques in Landscaping: To equip students with practical skills in landscape maintenance, soil preparation, irrigation, and pest management, which are essential for creating and maintaining beautiful gardens and landscapes.

CO-04 Environmental Sustainability: To highlight the role of floriculture and landscaping in promoting environmental sustainability, including water conservation, biodiversity, and reducing carbon footprints through green spaces.

CO-05 Economic Aspects of Floriculture and Landscaping: To explore the economic potential of floriculture as a business, including the marketing of flowers, plants, and landscaping services, as well as the role of landscaping in urban development.

CO-06 Horticultural Practices: To teach students the various horticultural practices specific to the cultivation of flowers and ornamental plants, such as propagation, pruning, and harvesting.

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BAG-418 Food Processing

CO: COURSE OBJECTIVES

CO-01 Understanding Food Processing Principles: To introduce students to the fundamental principles of food processing, such as preservation, fermentation, freezing, drying, and packaging, and their role in enhancing shelf life, nutritional value, and sensory qualities of food.

CO-02 Exploring Different Processing Techniques: To familiarize students with various processing techniques used in the food industry, including thermal processing, refrigeration, dehydration, canning, pasteurization, and extrusion.

CO-03 Food Safety and Quality Control: To emphasize the importance of food safety, sanitation, and quality control measures during processing to prevent contamination and ensure that food products meet regulatory standards.

CO-04 Impact on Nutritional Content: To examine how different processing methods affect the nutritional content, bioavailability of nutrients, and sensory attributes (taste, color, texture) of food products.

CO-05 Technology and Innovation: To expose students to the latest advancements in food processing technology, including automation, use of enzymes, nanotechnology, and other innovative methods for improving efficiency and sustainability in food production.

CO-06 Understanding Food Product Development: To equip students with skills in food product formulation and development, enabling them to create new food products based on consumer demands, market trends, and nutritional needs.

CO-07 Economic and Environmental Aspects: To analyze the economic feasibility of food processing operations, including cost analysis, resource utilization, and the environmental impact of food processing techniques.

Practical Application: To provide hands-on experience through laboratory work or industry internships, where students can apply theoretical knowledge to real-world food processing challenges.

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BAG-420 Agriculture Waste Management

CO: COURSE OBJECTIVES

CO-01 Understanding Agricultural Waste: Learn about the types of agricultural waste generated (e.g., crop residues, animal manure, and agro-industrial waste) and their environmental impact.

CO-02 Waste Disposal and Recycling: Explore methods for the safe disposal and recycling of agricultural waste to minimize environmental pollution.

CO-03 Waste-to-Energy Technologies: Study technologies that convert agricultural waste into energy (e.g., biogas production, biofuels).

CO-04 Composting and Soil Health: Understand how agricultural waste can be composted and used to improve soil health and fertility.

CO-05 Environmental Impact Assessment: Evaluate the environmental implications of poor waste management practices and the importance of sustainable waste management in agriculture.

CO-06 Policy and Regulation: Study national and international policies, regulations, and standards related to agricultural waste management.

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BAG-422 Organic Production Technology

CO: COURSE OBJECTIVES

CO-01 Understanding Organic Farming Principles: Introduce students to the fundamental principles of organic farming, emphasizing the importance of sustainability, biodiversity, and soil health.

CO-02 Techniques of Organic Crop Production: Equip students with knowledge of various organic farming practices such as crop rotation, composting, green manure, mulching, and organic pest management.

CO-03 Soil Health Management: Teach students how organic production emphasizes soil fertility through the use of organic matter, bio-fertilizers, and soil-friendly techniques, avoiding chemical inputs.

CO-04 Organic Inputs and Fertilization: Focus on the sources and use of organic fertilizers, including compost, vermicompost, biofertilizers, and plant-based nutrient amendments.

CO-05 Certification and Standards: Provide knowledge on organic certification processes, standards, and regulations to ensure products meet the requirements for organic labeling.

CO-06 Pest and Disease Management in Organic Systems: Teach students how to manage pests and diseases through non-chemical means like biological control, physical methods, and plant resistance.

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BAG-424 Commercial Sericulture

CO: COURSE OBJECTIVES

CO-1 Understanding Sericulture Basics: To introduce students to the history, principles, and biology of sericulture, focusing on silk-producing organisms, particularly silkworms (Bombyx mori).

CO-2 Silkworm Rearing Techniques: To train students in the various techniques involved in silkworm rearing, including the selection of appropriate breeds, feeding, and care of silkworms to enhance silk production.

CO-03 Silk Cocoon Production: To impart knowledge about cocoon harvesting, handling, and processing for commercial silk production.

CO-04 Sericulture Infrastructure: To educate students on setting up and managing a sericulture farm, including the design of rearing houses, mulberry cultivation for silkworm feed, and other necessary infrastructure.

CO-05 Economic Aspects: To explore the economic potential of sericulture, including cost analysis, profit margins, market trends, and the development of a business model.

CO-06 Post-harvest Processing: To provide hands-on training in processing cocoons into silk threads, including reeling, twisting, dyeing, and weaving.

CO-07 Sustainability in Sericulture: To discuss sustainable sericulture practices, pest management, and environmental concerns associated with silk farming.

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Modules for Skill Development and Entrepreneurship

A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the following package of modules in the VIII semester.

NOTE: In addition to above ELP modules other important modules may be given to the students by SAUs.

S. No	Subject Code	Title	Credit Hours			
			Cr	L	T	P
1.	BAG-402	Production Technology for Bioagents and Biofertilizer	1	0	0	2
2.	BAG-404	Seed Production and Technology	1	0	0	2
3.	BAG-406	Mushroom Cultivation Technology	1	0	0	2
4.	BAG-408	Soil, Plant, Water and Seed Testing	1	0	0	2
5.	BAG-410	Commercial Beekeeping	1	0	0	2
6.	BAG-412	Poultry Production Technology	1	0	0	2
7.	BAG-414	Commercial Horticulture	1	0	0	2
8.	BAG-416	Floriculture and Landscaping	1	0	0	2
9.	BAG-418	Food Processing	1	0	0	2
10.	BAG-420	Agriculture Waste Management	1	0	0	2
11.	BAG-422	Organic Production Technology	1	0	0	2
12.	BAG-424	Commercial Sericulture	1	0	0	2
	Total		**12**	**0**	**0**	**24**

Evaluation of Experiential Learning Programme/ Hands-on Training (HOT)

S. No	Parameters	Max. Marks
11.	Project Planning and Writing	10
12.	Presentation	10
13.	Regularity	10
14.	Monthly Assessment	10
15.	Output delivery	10
16.	Technical Skill Development	10
17.	Entrepreneurship Skills	10
18.	Business networking skills	10
19.	Report Writing Skills	10
20.	Final Presentation	10
	Total	**100**

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Elective Courses

A student can select three elective courses out of the following and offer during 4th (BAG-220), 5th (BAG-319) and 6th (BAG-344) semesters.

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Agribusiness Management

CO: COURSE OBJECTIVE

CO-1 Maximize Profitability: Optimize the use of resources, including land, labor, capital, and technology, to ensure the profitability and financial sustainability of agribusiness operations.

CO-2 Efficient Resource Utilization: Ensure the efficient use of inputs like seeds, fertilizers, water, and machinery to reduce waste and increase productivity.

CO-3 Market Competitiveness: Develop strategies to compete effectively in local and global markets, including pricing, branding, and distribution.

CO-4 Sustainability and Environmental Stewardship: Promote environmentally sustainable practices by reducing the ecological impact of agricultural operations, conserving natural resources, and supporting biodiversity.

CO-5 Risk Management: Identify, analyze, and mitigate risks related to price volatility, climate change, pests, diseases, and market uncertainties.

CO-6 Enhance Supply Chain Efficiency: Streamline processes from production to distribution, ensuring timely delivery of products while maintaining quality and minimizing costs.

CO-7 Support Rural Development: Contribute to rural economic growth by creating employment opportunities, fostering community development, and improving the livelihood of farmers and workers.

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Course Contents

Unit- I:

- Transformation of agriculture into agribusiness, various stakeholders and components of agribusiness systems. Importance of agribusiness in the Indian economy and New Agricultural Policy. Distinctive features of Agribusiness Management: Importance and needs of agro-based industries,

Unit- II:

- Classification of industries and types of agro based industries. Institutional arrangement, procedures to set up agro based industries. Constraints in establishing agro-based industries.

Unit- III:

- Agri-value chain: Understanding primary and support activities and their linkages. Business environment: PEST & SWOT analysis. Management functions: Roles & activities, Organization culture. Planning, meaning, definition, types of plans. Purpose or mission, goals or objectives, Strategies, polices procedures, rules, programs and budget. Components of a business plan, Steps in planning and implementation.

Unit- IV:

- Organization staffing, directing and motivation. Ordering, leading, supervision, communications, control. Capital Management and Financial management of Agribusiness. Financial statements and their importance. Marketing Management: Segmentation, targeting & positioning.

Unit- V:

- Marketing mix and marketing strategies. Consumer behaviour analysis, Product Life Cycle (PLC).Sales & Distribution Management. Pricing policy, various pricing methods. Project Management definition, project cycle, identification, formulation, appraisal, implementation, monitoring and evaluation. Project Appraisal and evaluation techniques.

Practical:

Study of agri-input markets: Seed, fertilizers, pesticides. Study of output markets: grains, fruits, vegetables, flowers. Study of product markets, retails trade commodity trading, and value added products. Study of financing institutions- Cooperative, Commercial banks, RRBs, Agribusiness Finance Limited, NABARD. Preparations of projects and Feasibility reports for agribusiness entrepreneur. Appraisal/evaluation techniques of identifying viable project- Non-discounting techniques. Case study of agro-based industries. Trend and growth rate of prices of agricultural commodities. Net present worth technique for selection of viable project. Internal rate of return.

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Agrochemicals

CO: COURSE OBJECTIVE

CO-1 Enhance Crop Yield: Increase agricultural productivity by providing essential nutrients, protecting crops from pests, and improving growth conditions.

CO-2 Pest and Disease Control: Protect crops from harmful pests, weeds, and diseases that can reduce yields and quality.

CO-3 Improve Crop Quality: Ensure better-quality produce by preventing nutrient deficiencies, diseases, and pest damage.

CO-4 Promote Efficient Resource Use: Maximize the effectiveness of water, nutrients, and soil resources through targeted applications.

CO-5 Support Sustainable Farming Practices: Help maintain soil fertility and health while minimizing land degradation when used responsibly.

CO-6 Facilitate Large-Scale Farming: Enable efficient management of large agricultural areas by reducing the labor required for pest control and fertilization.

CO-7 Adapt to Changing Climate Conditions: Provide tools to combat stress factors such as drought, high temperatures, or nutrient depletion caused by climate changes.

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Course Contents

Unit- I:

- An introduction to agrochemicals, their type and role in agriculture, effect on environment, soil, human and animal health, merits and demerits of their uses in agriculture, management of agrochemicals for sustainable agriculture. Herbicides- Major classes, properties and important herbicides. Fate of herbicides, Fungicides - Classification – Inorganic fungicides - characteristics, preparation and use of sulfur and copper, Mode of action-Bordeaux mixture and copper oxychloride.

Unit- II:

- Organic fungicides- Mode of action- Dithiocarbamates-characteristics, preparationand use of Zineb and maneb, Systemic fungicides- Benomyl, carboxin, oxycarboxin, Metalaxyl, Carbendazim, characteristics and use. Introduction and classification of insecticides: inorganic and organic insecticides

Unit- III:

- Organochlorine, Organophosphates, Carbamates, Synthetic pyrethroids Neonicotinoids, Biorationals, Insecticide Act and rules, Insecticides banned, withdrawn and restricted use, Fate of insecticides in soil & plant. IGRs Biopesticides, Reduced risk insecticides, Botanicals, plant and animal systemic insecticides their characteristics and uses.

Unit- IV:

- Fertilizers and their importance. Nitrogenous fertilizers: Feedstocks and Manufacturing of ammonium sulphate, ammonium nitrate, ammonium chloride, urea. Slow release N-fertilizers. Phosphatic fertilizers: feedstock and manufacturing of single superphosphate. Preparation of bone meal and basic slag.Potassic fertilizers: Natural sources of potash, manufacturing of potassiumchloride, potassium sulphate and potassium nitrate.

Unit- V:

- Mixed and complex fertilizers: Sources and compatibility–preparation of major, secondary and micronutrient mixtures. Complex fertilizers: Manufacturing of ammonium phosphates, nitrophosphates and NPK complexes. Fertilizer control order. Fertilizer logistics and marketing. Plant bio-pesticides for ecological agriculture, Bio-insect repellent.

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Practical:

Sampling of fertilizers and pesticides. Pesticides application technology to study about various pesticides appliances. Quick tests for identification of common fertilizers. Identification of anion and cation in fertilizer. Calculation of doses of insecticides to be used. To study and identify various formulations of insecticide available kin market. Estimation of nitrogen in Urea. Estimation of water soluble P2O5 and citrate soluble P2O5 in single super phosphate. Estimation of potassium in Muraite of Potash/ Sulphate of Potash by flame photometer. Determination of copper content in copper oxychloride. Determination of sulphur content in sulphur fungicide. Determination of thiram. Determination of ziram content.

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Commercial Plant Breeding

CO: COURSE OBJECTIVE

CO-1 Improved Yield: To increase the productivity of crops per unit area, ensuring higher returns for farmers and food security for populations.

CO-2 Disease and Pest Resistance: To develop plant varieties resistant to specific diseases and pests, reducing crop losses and the need for chemical pesticides.

CO-3 Abiotic Stress Tolerance: To breed plants capable of withstanding adverse environmental conditions such as drought, salinity, extreme temperatures, and flooding.

CO-4 Enhanced Quality: To improve the nutritional value, taste, texture, shelf life, and appearance of crops, meeting consumer demands and market standards.

CO-5 Adaptation to Mechanization: To produce crop varieties that are suited to modern agricultural practices, including mechanical planting, harvesting, and processing.

CO-6 Shorter Growing Cycles: To develop varieties with reduced maturity periods, enabling multiple cropping in a year or better adaptation to specific growing seasons.

CO-7 Market-Specific Traits: To tailor crops for specific industrial uses (e.g., high oil content in oilseeds, gluten content in wheat, or sugar content in sugarcane) and regional consumer preferences.

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Course Contents

Unit- I:

- Types of crops and modes of plant reproduction. Line development and maintenance breeding in self and cross pollinated crops (A/B/R and two line system) for development of hybrids and seed production.

Unit- II:

- Genetic purity test of commercial hybrids. Advances in hybrid seed production of maize, rice, sorghum, pearl millet, castor, sunflower, cotton pigeon pea, Brassica etc.

Unit- III:

- Quality seed production of vegetable crops under open and protected environment. Alternative strategies for the development of the line and cultivars: haploid inducer, tissue culture techniques and biotechnological tools.

Unit- IV:

- IPR issues in commercial plant breeding: DUS testing and registration of varieties under PPV & FR Act. Variety testing, release and notification systems in India. Principles and techniques of seed production, types of seeds, quality testing in selfand cross pollinated crops.

Practical:

Floral biology in self and cross pollinated species, selfing and crossing techniques. Techniques of seed production in self and cross pollinated crops using A/B/R and two line system. Learning techniques in hybrid seed production using male-sterility in field crops. Understanding the difficulties in hybrid seed production, Tools and techniques for optimizing hybrid seed production. Concept of rouging in seed production plot. Concept of line its multiplication and purification in hybrid seed production. Role of pollinators in hybrid seed production. Hybrid seed production techniques in sorghum, pearl millet, maize, rice, rapeseed-mustard, sunflower, castor, pigeon pea, cotton and vegetable crops. Sampling and analytical procedures for purity testing and detection of spurious seed. Seed drying and storage structure in quality seed management. Screening techniques during seed processing viz., grading and packaging. Visit to public private seed production and processing plant.

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Landscaping

CO: COURSE OBJECTIVE

CO-1 Aesthetic Enhancement: Create visually appealing spaces through the use of plants, structures, and other landscape elements.

CO-2 Functional Use: Optimize outdoor spaces for practical purposes, such as recreation, dining, walking paths, or seating areas.

CO-3 Environmental Sustainability: Promote ecological balance by incorporating native plants, conserving water, and providing habitats for wildlife.

CO-4 Climate Moderation: Use landscaping elements like trees and shrubs to regulate temperature, reduce heat, and provide shade or windbreaks.

CO-5 Erosion and Soil Protection: Prevent soil erosion and degradation by using ground covers, terraces, and retaining walls.

CO-6 Increase Property Value: Enhance the market value of a property through thoughtful and well-maintained landscaping.

CO-7 Improved Air and Noise Quality: Use plants to purify the air and act as natural sound barriers to reduce noise pollution.

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Course Contents

Unit- I:

- Importance and scope of landscaping. Principles of landscaping, garden styles and types, terrace gardening, vertical gardening, garden components, adornments, lawn making, rockery, water garden, walk-paths, bridges, other constructed features etc. gardens for special purposes.

Unit- II:

- Trees: selection, propagation, planting schemes, canopy management, shrubs and herbaceous perennials: selection, propagation, planting schemes, architecture. Climber and creepers: importance, selection, propagation, planting,

Unit- III:

- Annuals: selection, propagation, planting scheme, Other garden plants: palms, ferns, grasses and cacti succulents. Pot plants: selection, arrangement, management.

Unit- IV:

- Bio-aesthetic planning: definition, need, planning; landscaping of urban and rural areas, Peri-urban landscaping, Landscaping of schools, public places like bus station, railway station, townships, river banks, hospitals, play grounds, airports, industries, institutions. Bonsai: principles and management, lawn: establishment andmaintenance. CAD application

Practical:

Identification of trees, shrubs, annuals, pot plants; Propagation of trees, shrubs and annuals, care and maintenance of plants, potting and repotting, identification of tools and implements used in landscape design, training and pruning of plants for special effects, lawn establishment and maintenance, layout of formal gardens, informal gardens, special type of gardens (sunken garden, terrace garden, rock garden) and designing of conservatory and lathehouse. Use of computer software, visit to important gardens/ parks/ institutes.

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Food Safety and Standards

CO: COURSE OBJECTIVE

CO-1 Ensure Public Health: Protect consumers by ensuring that food is safe, nutritious, and free from contaminants, thereby reducing foodborne illnesses.

CO-2 Regulate Food Quality: Establish and enforce standards for food products to ensure consistent quality and safety throughout the food supply chain.

CO-3 Prevent Adulteration: Monitor and prevent the adulteration of food products to maintain their authenticity and protect consumer rights.

CO-4 Promote Hygiene in Food Handling: Encourage hygienic practices at every stage, from production and processing to storage, distribution, and consumption.

CO-5 Facilitate Fair Trade Practices: Ensure that food businesses adhere to ethical practices, avoiding misleading claims and labeling to protect consumer interests.

CO-6 Support Consumer Awareness: Educate consumers about food safety, labeling, and nutritional information to enable informed choices.

CO-7 Encourage Innovation and Research: Promote advancements in food technology, safety standards, and sustainable practices to improve the overall food ecosystem.

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Course Contents

Unit- I:

- Food Safety – Definition, Importance, Scope and Factors affecting Food Safety. Hazards and Risks, Types of hazards - Biological, Chemical, Physical hazards. Management of hazards - Need. Control of parameters. Temperature control.

Unit- II:

- Food storage. Product design. Hygiene and Sanitation in Food Service Establishments- Introduction. Sources of contamination and their control. Waste Disposal. Pest and Rodent Control. Personnel Hygiene. Food Safety Measures.

Unit- III:

- Food Safety Management Tools- Basic concepts. PRPs, GHPs, GMPs, SSOPs etc. HACCP. ISO series. TQM concept and need for quality, components of TQM, Kaizen. Risk Analysis. Accreditation and Auditing, Water Analysis, Surface Sanitation and Personal Hygiene.

Unit- IV:

- Food laws and Standards- Indian Food Regulatory Regime, FSSA. Global Scenario CAC. Other laws and standards related to food. Recent concerns- New and Emerging Pathogens. Packaging, Product labeling and Nutritional labeling.

Unit- V:

- Genetically modified foods\ transgenics. Organic foods. Newer approaches to food safety. Recent Outbreaks. Indian and International Standards for food products.

Practical:

Water quality analysis physico-chemical and microbiological. Preparation of different types of media. Microbiological Examination of different food samples. Assessment of surface sanitation by swab/rinse method. Assessment of personal hygiene. Biochemical tests for identification of bacteria. Scheme for the detection of food borne pathogens. Preparation of plans for Implementation of FSMS - HACCP, ISO: 22000.

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Biopesticides & Biofertilizers

CO: COURSE OBJECTIVE

CO-1 Enhance Crop Productivity: Improve soil fertility and plant health to increase crop yields.

CO-2 Promote Sustainable Agriculture: Reduce reliance on chemical pesticides and fertilizers, fostering eco-friendly farming practices.

CO-3 Improve Soil Health: Restore and maintain soil microbial diversity and organic matter content.

CO-4 Reduce Environmental Impact: Minimize soil, water, and air pollution by avoiding harmful chemical inputs.

CO-5 Support Integrated Pest and Nutrient Management: Provide targeted pest control and nutrient supplementation without disrupting natural ecosystems.

CO-6 Enhance Crop Quality: Improve the nutritional value, flavor, and shelf life of agricultural produce.

CO-7 Promote Farmer and Consumer Safety: Reduce health risks associated with synthetic agrochemicals for farmers and consumers.

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Course Contents

Unit- I:

- History and concept of biopesticides. Importance, scope and potential of biopesticide. Definitions, concepts and classification of biopesticides viz. pathogen, botanical pesticides, and biorationales. Botanicals and their uses. Mass production technology of bio-pesticides. Virulence, pathogenicity and symptoms of entomopathogenic pathogens and nematodes.

Unit- II:

- Methods of application of biopesticides. Methods of quality control and Techniques of biopesticides. Impediments and limitation in production and use of biopesticide.

Unit- III:

- Biofertilizers - Introduction, status and scope. Structure and characteristic features of bacterial biofertilizers- Azospirillum, Azotobacter, Bacillus, Pseudomonas, Rhizobium and Frankia; Cynobacterialbiofertilizers- Anabaena, Nostoc, Hapalosiphon and fungal biofertilizers- AM mycorrhiza and ectomycorhiza. Nitrogen fixation -Free living and symbiotic nitrogen fixation.

Unit- IV:

- Mechanism of phosphate solubilization and phosphate mobilization, K solubilization. Productiontechnology: Strain selection, sterilization, growth and fermentation, mass production of carrier based and liquid biofertiizers.

Unit- V:

- FCO specifications and quality control of biofertilizers. Application technology for seeds, seedlings, tubers, sets etc. Biofertilizers -Storage, shelf life, quality control and marketing. Factors influencing the efficacy of biofertilizers.

Practical:

Isolation and purification of important biopesticides: Trichoderma Pseudomonas, Bacillus, Metarhyziumetc. and its production. Identification of important botanicals. Visit to biopesticide laboratory in nearby area. Field visit to explore naturally infected cadavers. Identification of entomopathogenic entities in field condition.Quality control of biopesticides. Isolation and purification of Azospirillum ,Azotobacter, Rhizobium, P-solubilizers and cyanobacteria. Mass multiplication and inoculums production of biofertilizers. Isolation of AM fungi -Wet sieving method and sucrose gradient method. Mass production of AMinoculants.

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Protected Cultivation

CO: COURSE OBJECTIVE

CO-1 Enhanced Crop Productivity: To increase the yield per unit area by optimizing environmental conditions like temperature, humidity, and light for plant growth.

CO-2 Quality Improvement: To produce high-quality crops with uniformity in size, shape, and color by minimizing environmental stress and pest damage.

CO-3 Extended Growing Seasons: To enable off-season production or extend the growing season of specific crops, ensuring a continuous supply to the market.

CO-4 Resource Efficiency: To conserve resources such as water and nutrients through efficient irrigation systems like drip irrigation and fertigation.

CO-5 Pest and Disease Management: To reduce crop loss by providing a physical barrier against pests and diseases, minimizing the need for chemical pesticides.

CO-6 Climate Resilience: To mitigate the adverse effects of extreme weather events such as frost, hail, excessive rain, or drought, ensuring stable crop production.

CO-7 Diversification and Innovation: To enable the cultivation of high-value crops, exotic vegetables, flowers, and fruits that might not thrive in open-field conditions due to climatic limitations.

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Course Contents

Unit- I:

- Protected cultivation- importance and scope, Status of protected cultivation in India and World types of protected structure based on site and climate. Cladding material involved in greenhouse/ poly house.

Unit- II:

- Greenhouse design, environment control, artificial lights, Automation. Soil preparation and management, Substrate management. Types of benches and containers. Irrigation and fertigation management.

Unit- III:

- Propagation and production of quality planting material of horticultural crops. Greenhouse cultivation of important horticultural crops – rose, carnation, chrysanthemum, gerbera, orchid, anthurium, lilium, tulip, tomato, bell pepper, cucumber, strawberry, pot plants, etc.

Unit- IV:

- Cultivation of economically important medicinal and aromatic plants. Off-season production of flowers and vegetables. Insect pest and disease management.

Practical:

Raising of seedlings and saplings under protected conditions, use of protrays in quality planting material production, Bed preparation and planting of crop for production, Inter cultural operations, Soil EC and pH measurement, Regulation of irrigation and fertilizers through drip, fogging ad misting.

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Micro propagation Technologies

CO: COURSE OBJECTIVE

CO-1 Mass Production of Plants: To produce a large number of genetically identical plants in a relatively short time, ensuring consistent traits and uniform quality.

CO-2 Preservation of Genetic Traits: To maintain and propagate plants with specific desirable characteristics, such as disease resistance, high yield, or ornamental value.

CO-3 Propagation of Rare or Endangered Species: To conserve and multiply species that are rare, endangered, or difficult to propagate through conventional methods.

CO-4 Production of Disease-Free Plants: To obtain pathogen-free plants by using meristem or shoot-tip cultures, particularly in cases where diseases are transmitted through seeds or vegetative propagation.

CO-5 Year-Round Production: To enable plant propagation irrespective of seasonal or environmental limitations, ensuring a continuous supply of plants.

CO-6 Development of Genetically Engineered Plants: To propagate transgenic plants or plants developed through genetic engineering techniques that may have enhanced traits such as pest resistance or stress tolerance.

CO-7 Facilitation of International Trade: To produce plants in sterile, contamination-free conditions that comply with quarantine regulations, allowing for the export and import of plants without spreading diseases or pests.

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Course Contents

Unit- I:

- Introduction, History, Advantages and limitations; Types of cultures (seed, embryo, organ, callus, cell),

Unit- II:

- Stages of micro-propagation, Axillary bud proliferation (Shoot tip and meristem culture, bud culture),Organogenesis (callus and direct organ formation),

Unit- III:

- Somatic embryogenesis, cell suspension cultures,

Unit- IV:

- Production of secondary metabolites, Somaclonal variation, Cryopreservation

Practical:

Identification and use of equipment in tissue culture Laboratory, Nutrition media composition, sterilization techniques for media, containers and small instruments, sterilization techniques forexplants, Preparation of stocks and working solution, Preparationof working medium, Culturing of explants: Seeds, shoot tip and single node, Callus induction, Induction of somatic embryos regeneration of whole plants from different explants, Hardening procedures.

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Hi-tech. Horticulture

CO: COURSE OBJECTIVE

CO-1 Enhancing Productivity: To maximize the yield of high-value crops by using advanced cultivation techniques, optimized resource management, and superior plant genetics.

CO-2 Efficient Resource Utilization: To promote the efficient use of inputs such as water, nutrients, and energy through technologies like drip irrigation, fertigation, and protected cultivation.

CO-3 Improved Quality of Produce: To achieve higher quality standards in terms of size, color, taste, and shelf life by leveraging precision agriculture and controlled environment farming.

CO-4 Sustainability: To reduce the environmental footprint of horticultural practices by promoting eco-friendly techniques such as organic farming, integrated pest management (IPM), and renewable energy sources.

CO-5 Diversification of Crops: To introduce and promote the cultivation of high-value exotic and off-season crops, expanding the market and income opportunities for farmers.

CO-6 Reduction in Post-Harvest Losses: To minimize post-harvest losses by adopting modern storage, packaging, and transportation methods.

CO-7 Technology Dissemination and Farmer Empowerment: To transfer advanced technologies to farmers, enhancing their skills and enabling them to adopt profitable and sustainable horticultural practices.

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Course Contents

Unit- I:

- Introduction & importance; Nursery management and mechanization; micro propagation of horticultural crops; Modern field preparation and planting methods,

Unit- II:

- Protected cultivation: advantages, controlled conditions, method and techniques, Micro irrigation systems and its components; EC, pH based fertilizer scheduling, canopy management, high density orcharding,

Unit- III:

- Components of precision farming: Remote sensing, Geographical Information System (GIS), Differential Geo-positioning System (DGPS),

Unit- IV:

- Variable Rate applicator (VRA), application of precision farming in horticulturalcrops (fruits, vegetables and ornamental crops); mechanized harvesting of produce.

Practical:

Types of polyhouses and shade net houses, Intercultural operations, tools and equipments identification and application, Micro propagation, Nursery-protrays, micro-irrigation, EC, pH based fertilizer scheduling, canopy management, visit to hi-tech orchard/nursery.

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Weed Management

CO: COURSE OBJECTIVE

CO-1 Understanding Weed Biology and Ecology: Explain the life cycles, reproduction strategies, and ecological roles of weeds in agricultural and non-agricultural ecosystems.

CO-2 Identification and Classification of Weeds: Equip students with the skills to identify common weed species and classify them based on their morphology, lifecycle, and habitat.

CO-3 Principles of Weed-Crop Competition: Analyze the impact of weeds on crop growth and yield through competition for resources like light, water, and nutrients.

CO-4 Weed Control Methods: Compare and evaluate various weed management strategies, including cultural, mechanical, biological, and chemical control methods.

CO-5 Integrated Weed Management (IWM): Design and implement integrated weed management plans that combine multiple control strategies to ensure long-term weed suppression and sustainable agriculture.

CO-6 Herbicide Use and Resistance Management: Examine the proper use of herbicides, their mode of action, environmental impact, and strategies to prevent or manage herbicide resistance.

CO-7 Economic and Environmental Impacts of Weed Management: Assess the cost-benefit analysis of weed control measures and their implications for environmental sustainability and agricultural productivity.

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Course Contents

Unit- I:

- Introduction to weeds, characteristics of weeds their harmful and beneficial effects on ecosystem. Classification, reproduction and dissemination of weeds.

Unit- II:

- Herbicide classification, concept of adjuvant, surfactant, herbicide formulation and their use. Introduction to mode of action of herbicides and selectivity.

Unit- III:

- Allelopathy and its application for weed management. Bio-herbicides and their application in agriculture. Concept of herbicide mixture and utility in agriculture.

Unit- IV:

- Herbicide compatibility with agro-chemicals and their application. Integration of herbicides with non chemical methods of weed management. Herbicide Resistance and its management.

Practical:

Techniques of weed preservation. Weed identification and their losses study. Biology of important weeds. Study of herbicide formulations and mixture of herbicide. Herbicide and agro- chemicals study. Shift of weed flora study in long term experiments. Study of methods of herbicide application, spraying equipments. Calculations of herbicide doses and weed control efficiency and weed index.

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System Simulation and Agro-advisory

CO: COURSE OBJECTIVE

CO-1 Understand System Simulation Basics: To introduce the fundamentals of system simulation, including types of models (e.g., discrete-event, continuous, hybrid), simulation techniques, and their applications in agricultural systems.

CO-2 Develop Simulation Models for Agricultural Systems: To develop and implement simulation models to represent agricultural processes such as crop growth, irrigation, pest management, and climate change impacts.

CO-3 Analyze and Interpret Simulation Data: To train students on analyzing simulation results, understanding model outputs, and interpreting data in the context of agricultural decision-making.

CO-4 Explore the Role of Agro-Advisory Systems: To provide a deep understanding of agro-advisory systems, their importance, and how they provide actionable insights to farmers for crop management, pest control, irrigation, and fertilization.

CO-5 Apply Simulation Techniques to Agro-Advisory Tools: To explore how simulation models can be integrated with agro-advisory systems to provide personalized, data-driven recommendations for farmers.

CO-6 Assess the Impact of Climate and Environmental Variables: To understand how environmental variables like weather, climate change, and soil conditions affect agricultural systems, and how to simulate their impacts for better planning and advisories.

CO-7 Evaluate and Design Decision Support Systems for Agriculture: To help students evaluate existing decision support systems and design new ones that leverage simulation models to optimize agricultural practices and improve farm productivity and sustainability.

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Course Contents

Unit- I:

- System Approach for representing soil-plant-atmospheric continuum, system boundaries, Crop models, concepts & techniques, types of crop models, data requirements, relational diagrams.

Unit- II:

- Evaluation of crop responses to weather elements; Elementary crop growth models; calibration, validation, verification and sensitivity analysis .Potential and achievable crop production- concept and modelling techniques for their estimation.

Unit- III:

- Crop production in moisture and nutrients limited conditions; components of soil water and nutrients balance. Weather forecasting, types, methods, tools & techniques, forecast verification;

Unit- IV:

- Value added weather forecast, ITK for weather forecast and its validity; Crop-Weather Calendars; Preparation of agro-advisory bulletin based on weather forecast. Use of crop simulation model for preparation of Agro-advisory and its effective dissemination.

Practical:

Preparation of crop weather calendars. Preparation of agro-advisories based on weatherforecast using various approaches and synoptic charts. Working with statistical and simulation models for crop growth. Potential & achievable production; yield forecasting, insect & disease forecasting models. Simulation with limitations of water and nutrient management options. Sensitivity analysis of varying weather and crop management practices. Use of statistical approaches in data analysis and preparation of historical, past and present meteorological data for medium range weather forecast. Feedback from farmers about the agro-advisory.

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Agricultural Journalism

CO: COURSE OBJECTIVE

CO-1 Understand Agricultural Issues and Trends: To familiarize students with the key issues, challenges, and trends in agriculture, including sustainability, food security, climate change, and technological advancements.

CO-2 Develop Writing and Reporting Skills: To teach students how to effectively research, write, and report on agricultural topics, ensuring clarity and accuracy while making complex subjects accessible to diverse audiences.

CO-3 Foster Multimedia Communication Abilities: To enable students to use various media formats—such as print, radio, television, and digital platforms—to communicate agricultural stories, including the use of social media for outreach.

CO-4 Critically Analyze Agricultural Policies and Practices: To provide students with the skills to critically assess agricultural policies, practices, and their impacts on rural communities, economies, and the environment.

CO-5 Enhance Ethical and Responsible Journalism: To instill a strong understanding of journalistic ethics, particularly in the context of reporting on agricultural issues, with a focus on balanced, fair, and transparent reporting.

CO-6 Cultivate Collaboration with Agricultural Stakeholders: To prepare students to work closely with farmers, agricultural businesses, government agencies, NGOs, and other stakeholders in the agricultural sector to gather information and enhance their stories.

CO-7 Promote Advocacy and Public Awareness: To empower students to use journalism as a tool for advocacy, raising awareness about critical agricultural issues and contributing to informed public discourse on topics such as food production, rural development, and environmental sustainability.

Shobhit University
EDUCATION EMPOWERS

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Course Contents

Unit- I:

- Agricultural Journalism: The nature and scope of agricultural journalism characteristics and training of the agricultural journalist, how agricultural journalism is similar to and different from other types of journalism.

Unit- II:

- Newspapers and magazines as communication media: Characteristics; kinds and functions of newspapers and magazines, characteristics of newspaper and magazine readers. Form and content of newspapers and magazines: Style and language of newspapers and magazines, parts of newspapers and magazines.

Unit- III:

- The agricultural story: Types of agricultural stories, subject matter of the agricultural story, structure of the agricultural story. Gathering agricultural information: Sources of agricultural information, interviews, coverage of events, abstracting from research and scientific materials, wire services, other agricultural news sources.

Unit- IV:

- Writing the story: Organizing the material, treatment of the story, writing the news lead and the body, readability measures. Illustrating agricultural stories: Use of photographs, use of artwork (graphs, charts, maps, etc.), writing the captions. Editorial mechanics: Copy reading, headline and title writing, proofreading, lay outing.

Practical:

Practice in interviewing. Covering agricultural events. Abstracting stories from research and scientific materials and from wire services. Writing different types of agricultural stories. Selecting pictures and artwork for the agricultural story. Practice in editing, copy reading, headline and title writing, proofreading, layouting. Testing copy with a readability formula. Visit to a publishing office.

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Annexure-3 (Item BOS-13.3)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2019-2020)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor,	9675000234 amit.tomar371@gmail.com

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		GMV Rampur	
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur.	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversit

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			y.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Vishvash Chand	928609396 vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar	9761211114

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		Assistant Professor GMV Rampur	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	96904123508090506371 rohit.saini@shobhituniversity.ac.in

Sr.	Course code	Name, Designation,	Contact number with E. Mail ID

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No.	with Title	Institution and Correspondence address of the Paper Setter/Examiner	
1.	Crop Production Technology – I *(Kharif Crops)* (BAG-201)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amit.kumar@gmail.com
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics	External Examiner 1. Manoj Kumar	8090506371 manoj.kumar@ shobhituniversity.ac.in

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	(BAG-207)	Associate Professor SUM	
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum University Roorki	9557471931 asheeshmalik.9@gmail.com
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and	External Examiner 1. Dr. Shiva	8937877339 shiva@shobhituniversity.ac.in

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	Disaster Management (BAG-213)	Associate Professor SUM.	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com
		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID

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1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.com
		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University	9557471931 asheeshmalik.9@gmail.com

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		Roorkee	
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-309)	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com
		2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. Kamlesh Shukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. Deepa Saini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890

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			shivani@shobhituniversity.ac.in
8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsing2006@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Neeraj Kumar	9690412350 neerajmandhar123@gmail.com

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Signed by:

(Chairman BOS)

(Vice Chancellor)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH
School of Agriculture and Environmental Sciences

Date: 20/12/2019

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 30.12.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 13th BOS Meeting held on 25 June 2019 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report:
3. Analysis of the feedback on curriculum from stakeholders:
4. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2020.**
5. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SHOBHIT UNIVERSITY GANGOH * H.o.D. *

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 20/12/2019

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 30.12.2019
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SHOBHIT UNIVERSITY GANGOH ★ H.O.D. ★

Shobhit University
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U.: www.sug.ac.in

SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 20/12/2019

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

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We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you,

Warm regards,
Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture * H.o.D. * SHOBHIT UNIVERSITY GANGOH

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 30/12/2019

Attendance Sheet (14th BOS Meeting)

Sr. No	Name	External/Internal Member	Signature
1.	Prof.(Dr.) J. P. Singh	External	
2.	Prof.(Dr.) Rajbir Singh	External	
3.	Mr. Vikas Kumar	Internal	
4.	Mr. Amit Kumar	Internal	

Chairman

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 30.12.2019

Minutes of the Meeting of Board of Studies

14th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 30th Dec. 2019.The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
2.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External Expert
4.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
5.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

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Item BOS 14.1: Approval of the Minutes of the 13th BOS Meeting held on 25 June 2019 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 14.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 14.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 14.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. For session **Jan. to June 2020.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 14.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Environmental Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.O.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH ★ REGISTRAR ★ Saharanpur (U.P.)

(Dean Academics)

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Annexure-1 (Item BOS 14.1)

School of Agriculture & Environmental Sciences

Date: 25.06.2019

Minutes of the Meeting of Board of Studies

13th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 25th June 2019. The following members were present in the meeting:

4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
5.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External expert
6.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidyalaya Rampur Maniharan, Saharanpur	External Expert
7.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
8.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 13.1: Approval of the Minutes of the 12th BOS Meeting held on 24 Dec, 2018 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 13.2: Approval of Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester updated w.e.f the Academic Session 2019-20 {Annexure-2}

- **BOS members approved Revision in Scheme & Syllabi of B.Sc. Agriculture Hons.1st to 8th Semester.**

Item BOS 13.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Agriculture Hons. for the session **July to December 2019**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 13.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academies)

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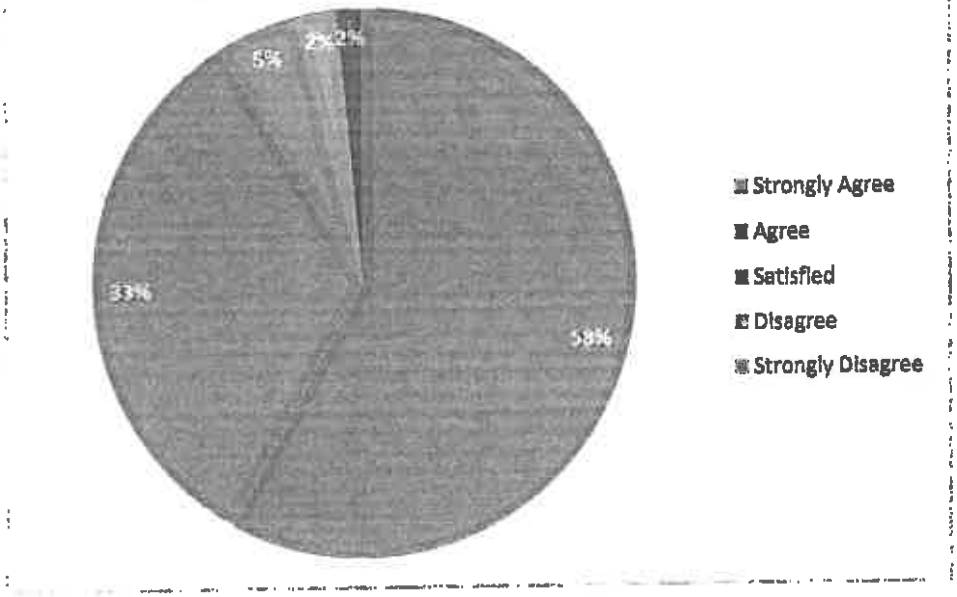
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Annexure-2 (Item BOS 14.2 & 14.3)

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	58.09524	33.33333	4.761905	2.5	1.5

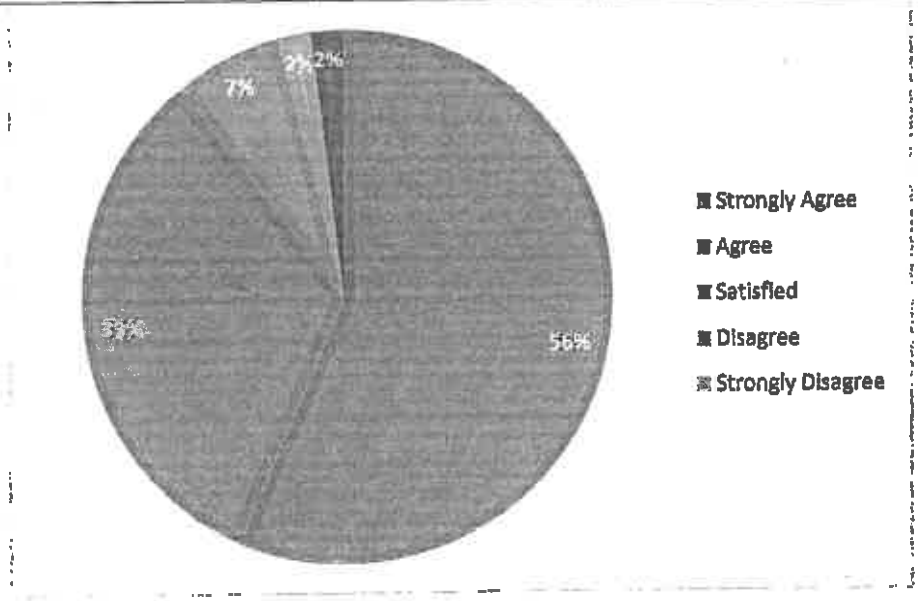


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Q.2. How do you rate the course outcomes and relevance to the course content?

Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	56.66667	32.85714	6.666667	2	2

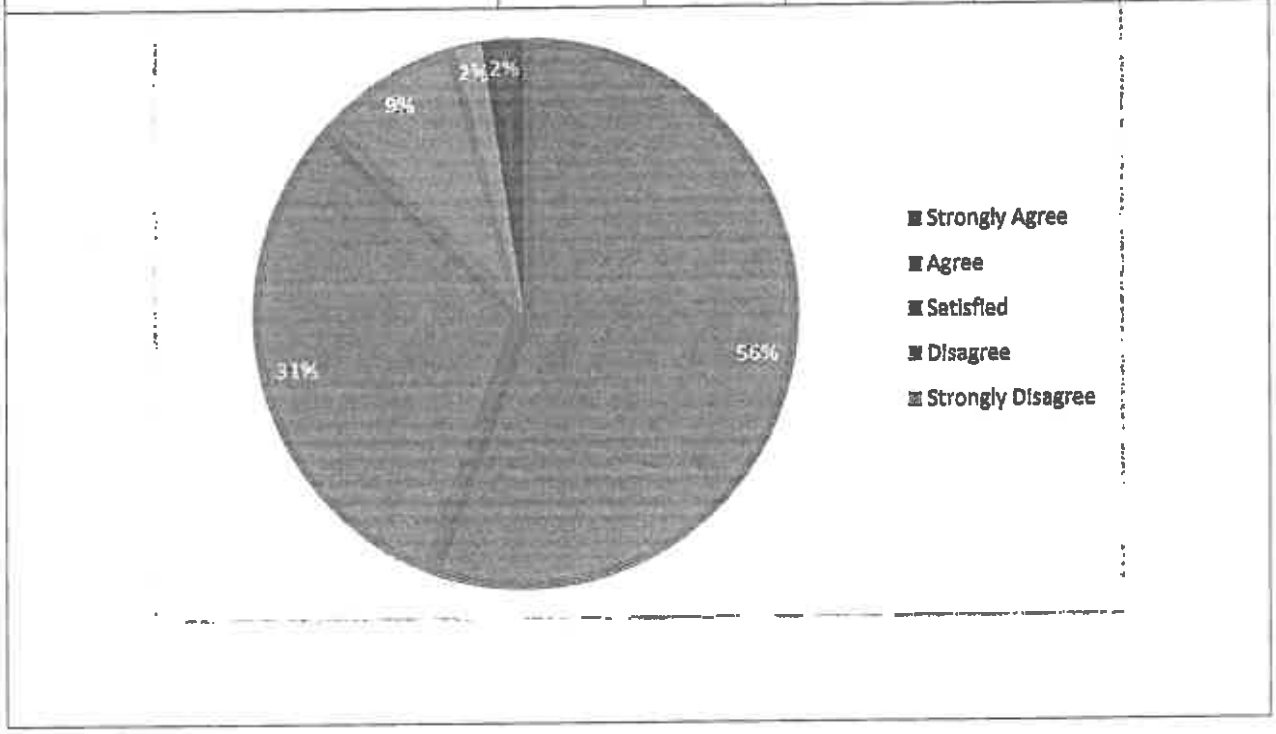


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Q.3. How do you rate the sequence of units in the courses?

Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55.71429	31.42857	9.047619	1.5	2.5

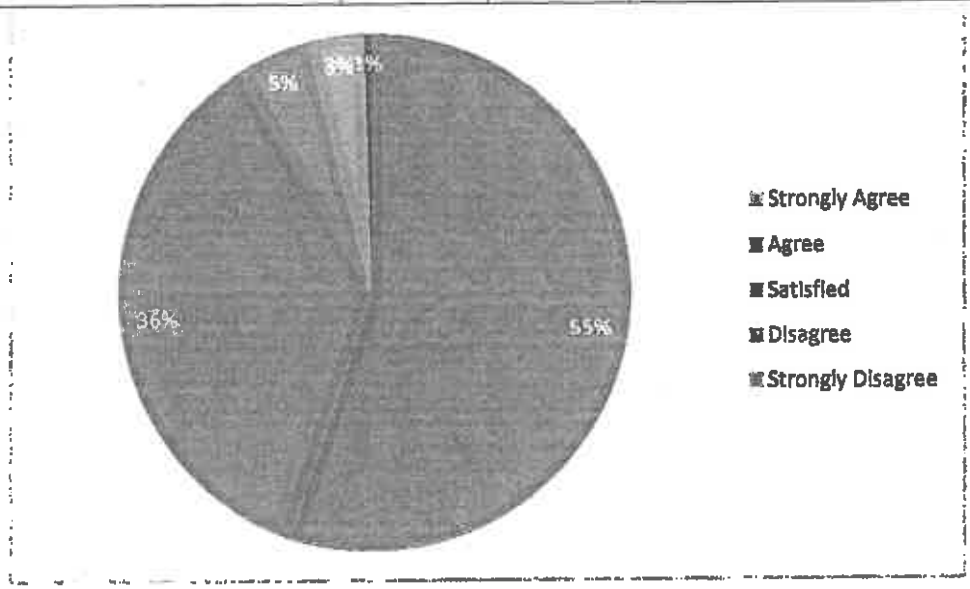


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Q.4. How do you rate the credits allotted to individual courses?

Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55.2381	36.19048	4.761905	3.5	0.5

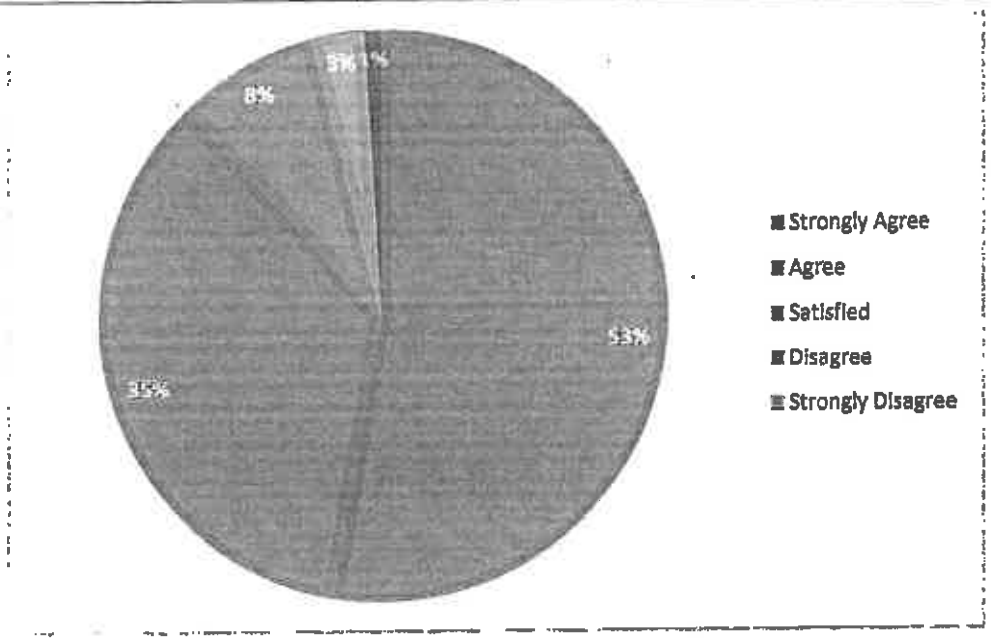


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Q.5. Does the curriculum focus on employability/career orientation?

Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.85714	35.2381	8.095238	3	1

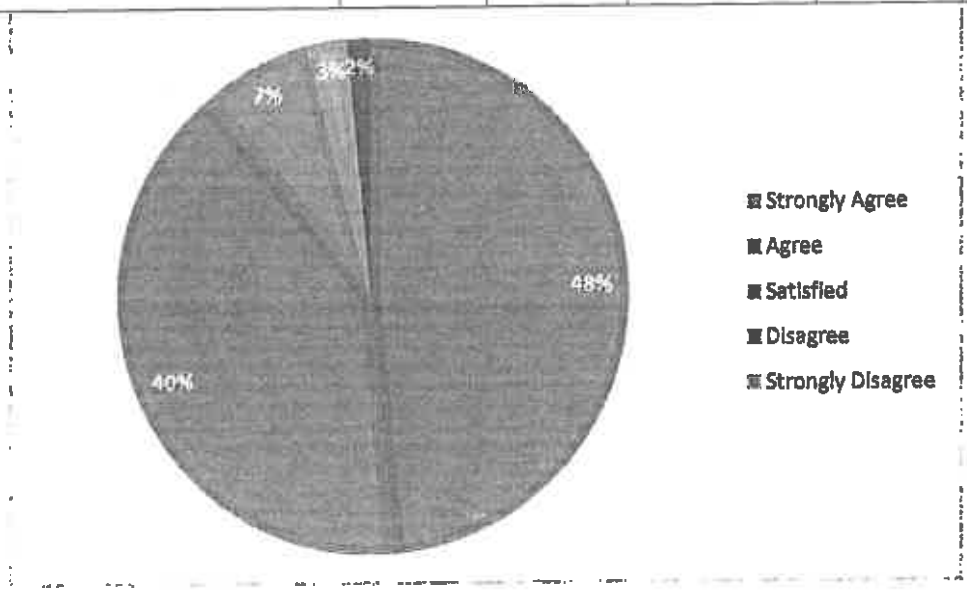


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Q.6. Does the curriculum focus on skill development/entrepreneurship?

Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.57143	40.47619	7.142857	2.5	1.5

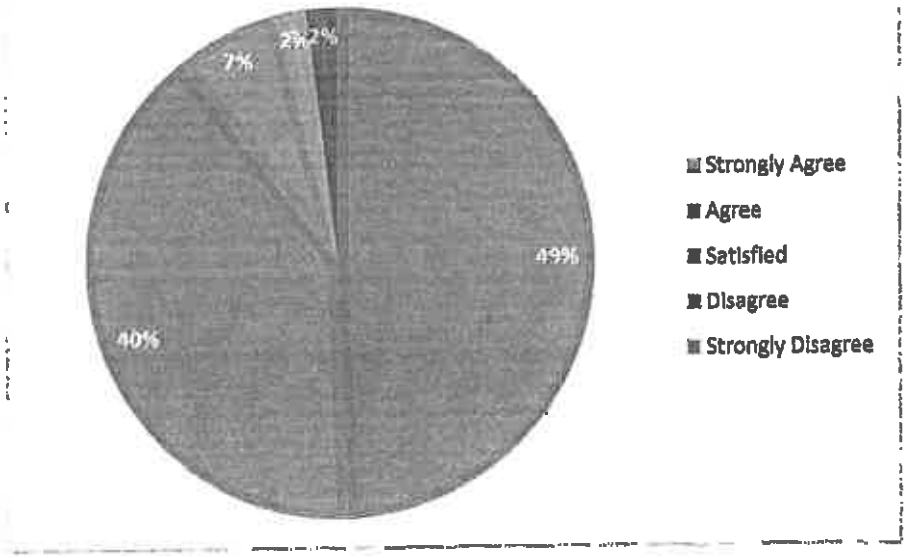


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Q.7. Does the curriculum have satisfactory number of elective courses?

Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.52381	40	6.666667	2	2

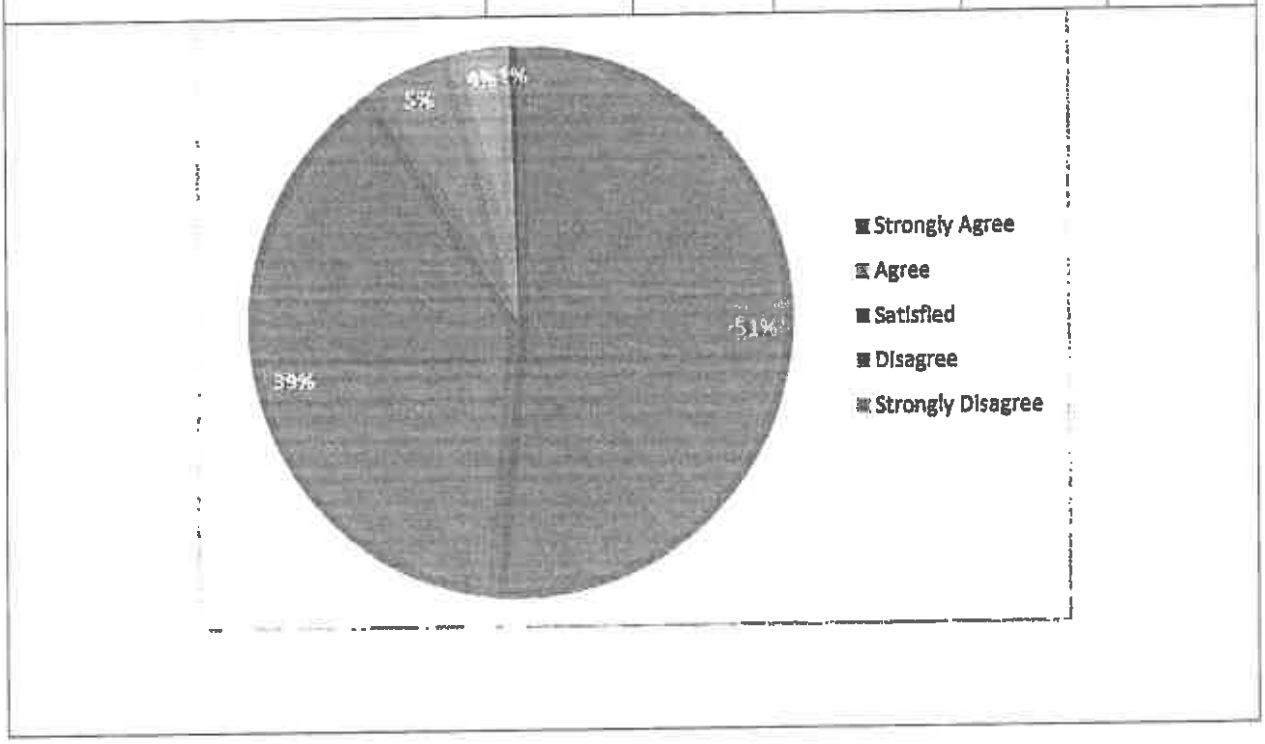


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Q.8. Does the curriculum focus on life skill or help in value addition?

Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	51.42857	39.52381	5.238095	3.5	0.5

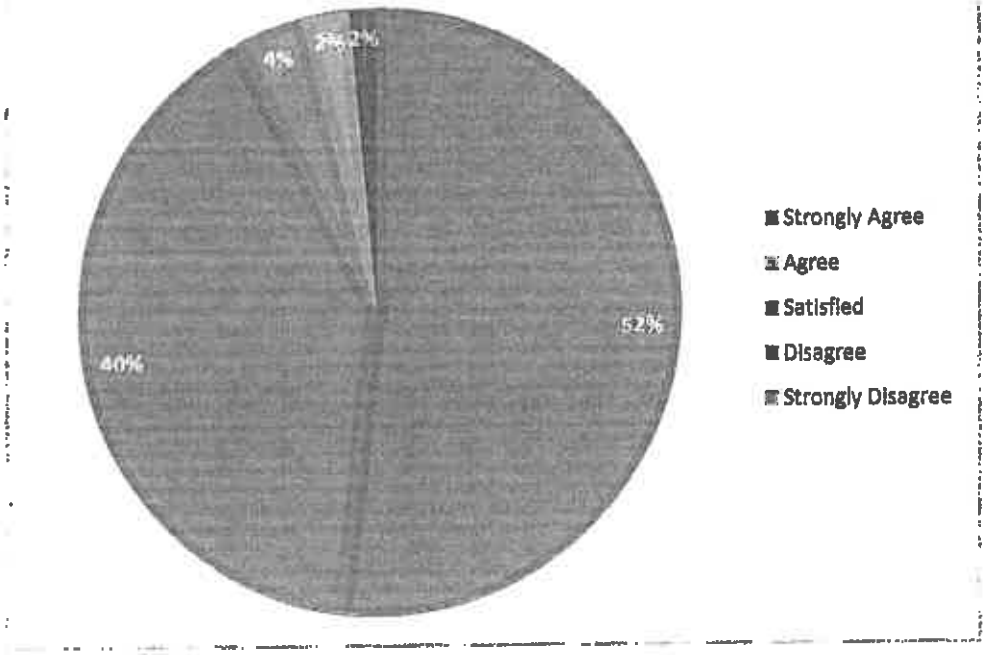


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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

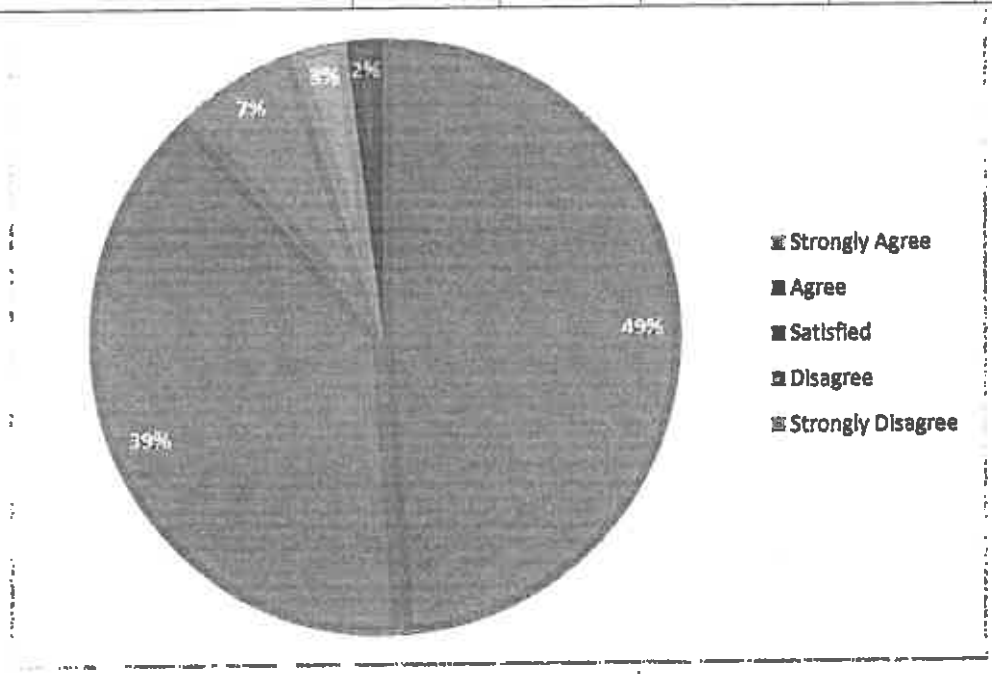
Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	51.90476	40.47619	3.809524	2.5	1.5



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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.04762	39.52381	6.666667	3	2



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School of Agriculture & Environment Sciences (210)						
Question	Details	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	122	70	10	5	3
	Percentage	58.0952381	33.33333333	4.761904762	2.5	1.5
How do you rate the course outcomes and relevance to the course content?	No of Students	119	69	14	4	4
	Percentage	56.66666667	32.85714286	6.666666667	2	2
How do you rate the sequence of units in the courses?	No of Students	117	66	19	3	5
	Percentage	55.71428571	31.42857143	9.047619048	1.5	2.5
How do you rate the credits allotted to individual courses?	No of Students	116	76	10	7	1
	Percentage	55.23809524	36.19047619	4.761904762	3.5	0.5
Does the curriculum focus on employability/career orientation?	No of Students	111	74	17	6	2
	Percentage	52.85714286	35.23809524	8.095238095	3	1
Does the curriculum focus on skill development/entrepreneurship?	No of Students	102	85	15	5	3
	Percentage	48.57142857	40.47619048	7.142857143	2.5	1.5
Does the curriculum have satisfactory number of elective courses?	No of Students	104	84	14	4	4
	Percentage	49.52380952	40	6.666666667	2	2
Does the curriculum focus on life skill or help in value addition?	No of Students	108	83	11	7	1
	Percentage	51.42857143	39.52380952	5.238095238	3.5	0.5
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	109	85	8	5	3
	Percentage	51.9047619	40.47619048	3.80952381	2.5	1.5
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	103	83	14	6	4
	Percentage	49.04761905	39.52380952	6.666666667	3	2

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Analysis of Feedback:

Based on the student feedback, the curriculum reflects a generally positive response across most areas, with notable strengths and a few areas for enhancement. **58.09%** of students believe the curriculum has sufficient depth and effectively clarifies concepts, while **33.33%** rated it average and only **4.76%** found it lacking. The **course outcomes and their relevance** to content received positive feedback from **56.67%** of students, though **6.66%** still expressed concerns. The **sequence of units** was found satisfactory by **55.71%**, but nearly **9.05%** rated it poorly, indicating some issues in content flow. **Credits allotted** were positively rated by **55.23%**, with only **4.76%** dissatisfied. The **employability and career orientation** aspect garnered approval from **52.86%**, while **8.09%** found it inadequate. Regarding **skill development and entrepreneurship**, **48.57%** gave positive feedback, though **40.47%** rated it average and **7.14%** poor, suggesting the need for more focus in this area. Satisfaction with **elective courses** stood at **49.52%**, with **40%** finding it average and **6.66%** unsatisfied. The **life skill and value addition component** had a positive rating of **51.42%**, while **39.52%** found it average. One of the stronger results came from the **integration of theory with practical/laboratory work**, where **51.90%** of students were satisfied, and only **3.81%** expressed dissatisfaction. Lastly, **49.04%** of students acknowledged the curriculum's ability to provide **multidisciplinary knowledge**, though **6.66%** rated it poorly. Overall, the feedback suggests the curriculum is well-received, especially in conceptual clarity and course relevance, while enhancements can be made in skill development, electives, and interdisciplinary exposure.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Improve focus on skill development and entrepreneurship	Organized skill-building workshops, career counseling, and entrepreneurship programs	Increased student engagement and entrepreneurial mindset
2	Enhance the sequence and structure of course units	Reviewed the course sequencing and restructured the curriculum for better logical flow	Improved understanding of course material and better continuity in learning
3	Expand elective course offerings and increase variety	Introduced new electives related to current trends and areas of student interest	Wider selection of electives leading to more satisfied students
4	Strengthen interdisciplinary knowledge and real-world exposure	Incorporated multidisciplinary modules and practical case studies linking theory to real-world scenarios	Enhanced student knowledge and real-life application of theoretical concepts

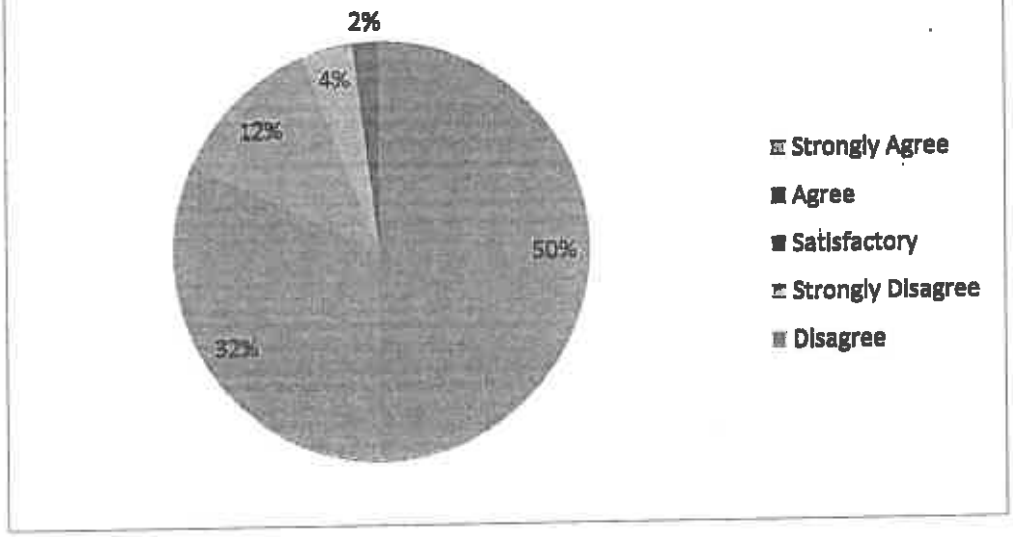
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Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The courses based on state of art trends and recent developments?

The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	32.00	12.00	4.00	2.00

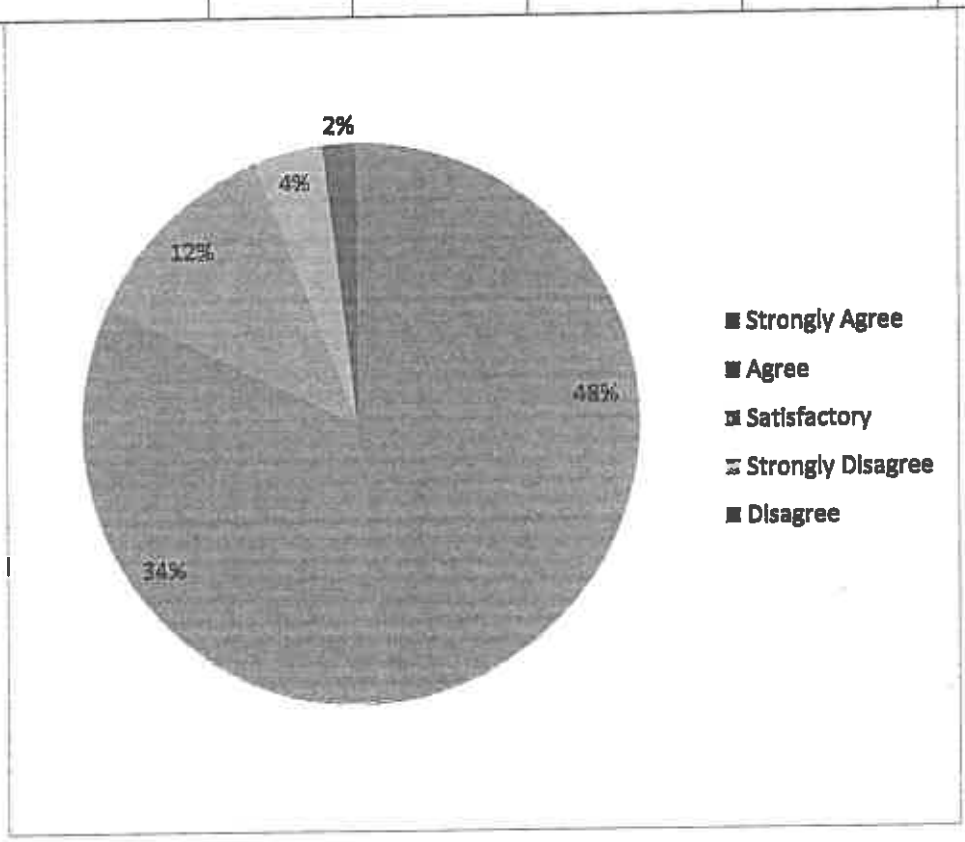


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Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	48.00	34.00	12.00	4.00	2.00

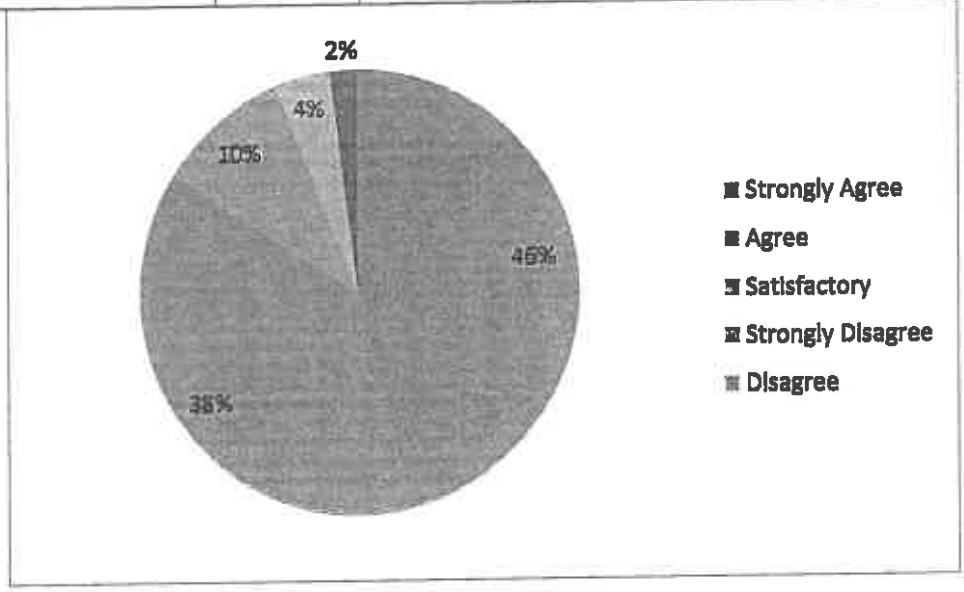


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Q.3 The courses found to be productive in competing professionally at national/international level?

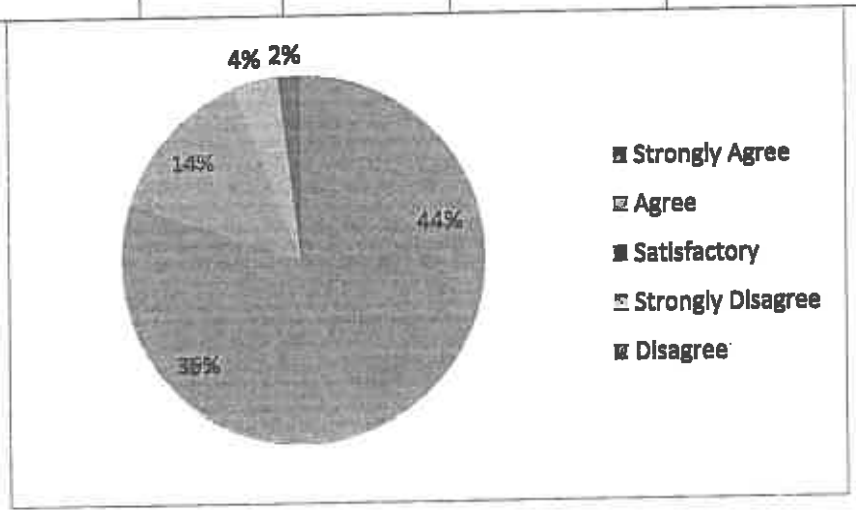
The courses found to be productive in competing professionally at national/international level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	46.00	38.00	10.00	4.00	2.00



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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	44.00	36.00	14.00	4.00	2.00

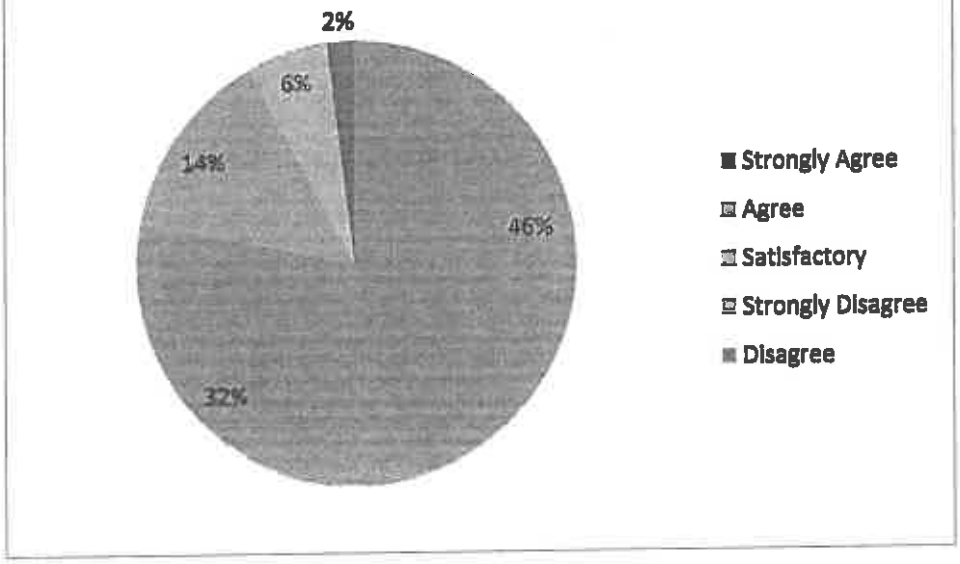


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Q.5 Theprogramme helped to understand the impact of domain knowledge in social and global context?

The programme helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	46.00	32.00	14.00	6.00	2.00

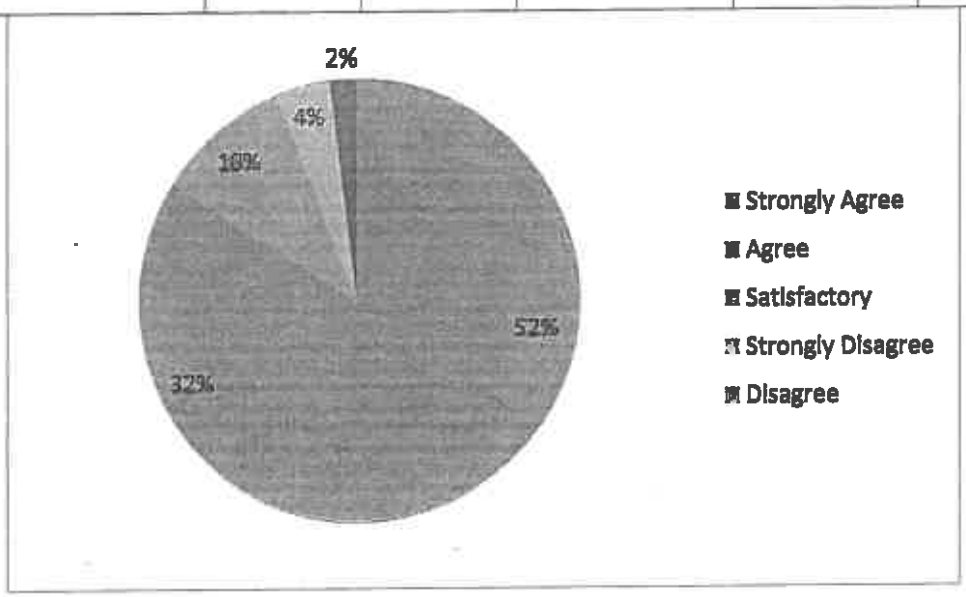


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Q.6 Theprogramme provided awareness on recent advancements and innovations?

The programme provided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	52.00	32.00	10.00	4.00	2.00

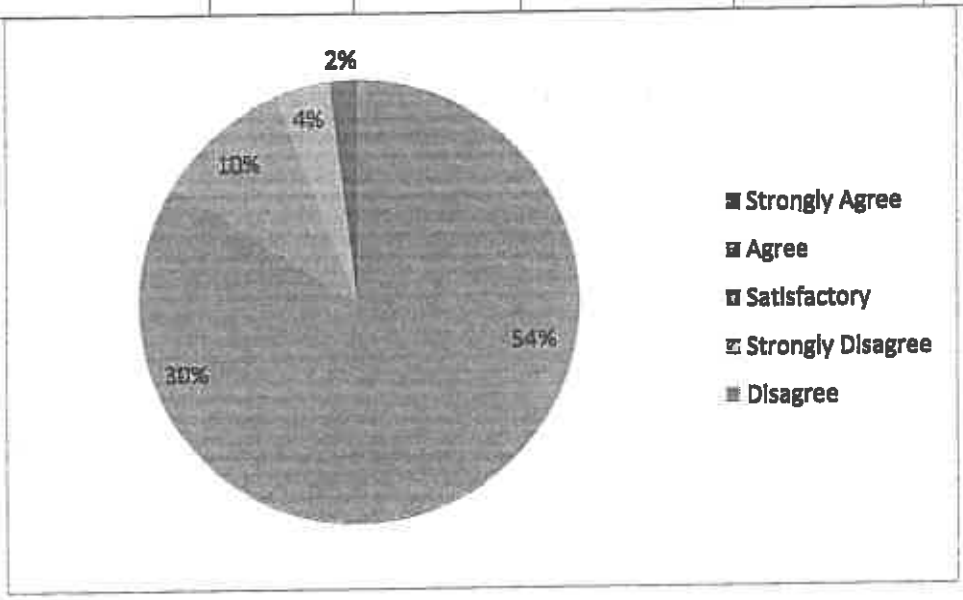


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Q.7 Theprogramme improved critical thinking ability and problem-solving aptitude.

The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	54.00	30.00	10.00	4.00	2.00

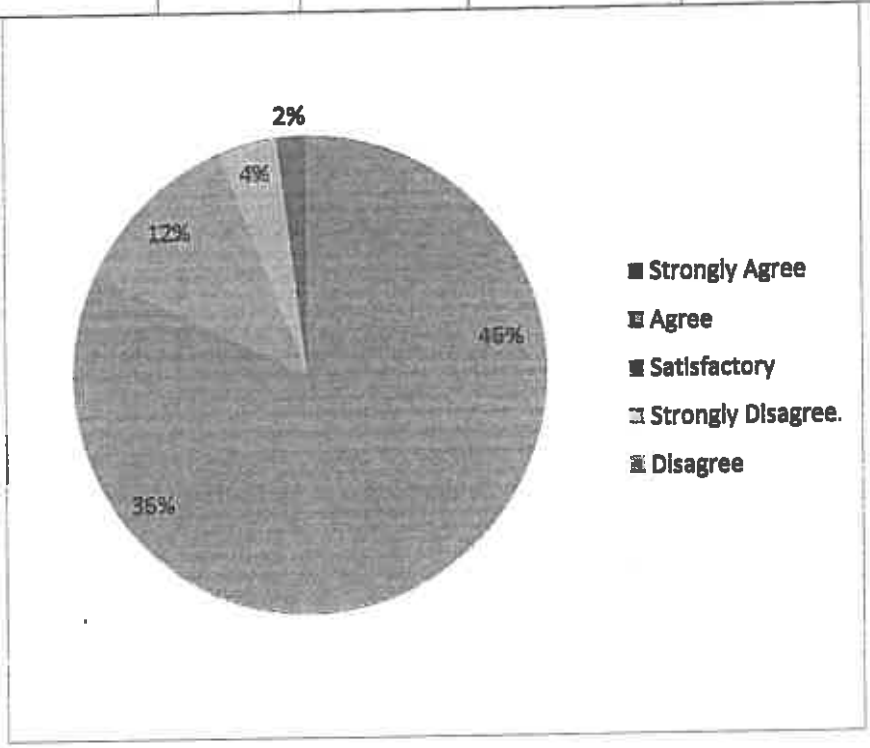


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Q.8 Theprogramme helped to take independent decisions and perform managerial &administerial functions diligently?

The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	46.00	36.00	12.00	4.00	2.00

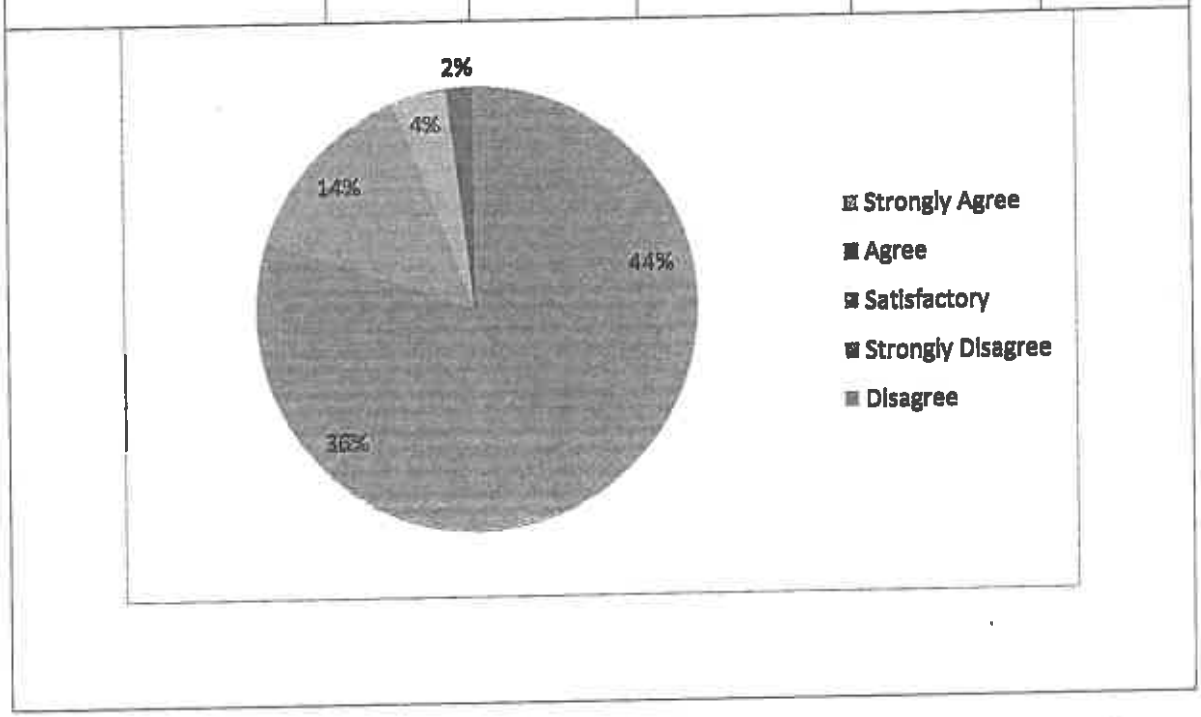


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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	44.00	36.00	14.00	4.00	2.00



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	School of Agriculture and Environmental Science (50)						
Sr.No.	Questions		Strongly Agree	Agree	Satisfactory	Strongly Disagree	Disagree
1	The courses based on state of art trends and recent developments?	No of Alumni	25	16	6	2	1
		Percentage	50.00	32.00	12.00	4.00	2.00
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	24	17	6	2	1
		Percentage	48.00	34.00	12.00	4.00	2.00
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	23	19	5	2	1
		Percentage	46.00	38.00	10.00	4.00	2.00
4	The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?	No of Alumni	22	18	7	2	1
		Percentage	44.00	36.00	14.00	4.00	2.00
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	23	16	7	3	1
		Percentage	46.00	32.00	14.00	6.00	2.00
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	26	16	5	2	1
		Percentage	52.00	32.00	10.00	4.00	2.00
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	27	15	5	2	1
		Percentage	54.00	30.00	10.00	4.00	2.00
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	23	18	6	2	1
		Percentage	46.00	36.00	12.00	4.00	2.00
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	22	18	7	2	1
		Percentage	44.00	36.00	14.00	4.00	2.00

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Analysis of the Feedback

The alumni feedback on the curriculum reveals a mixed response, with notable strengths in certain areas and room for improvement in others. On the positive side, 94% of alumni found the courses to be highly effective in developing domain-specific skills and knowledge, motivating students toward nation-building by instilling ethical and professional values, and enhancing awareness of recent advancements and innovations. Similarly, the program was appreciated for its ability to improve critical thinking, problem-solving, and managerial skills, as well as providing a strong foundation for pursuing advanced studies and research. However, there was a lower satisfaction rate (47%) in areas such as the alignment of the courses with state-of-the-art trends, their utility in preparing students for national or international competition, and their ability to address the impact of domain knowledge in a social and global context. Additionally, alumni indicated a slight gap in the curriculum's ability to foster independent decision-making. Overall, while the program is well-regarded for skill-building and ethical development, it may need further adjustments to better align with current trends and global competitiveness.

Action Taken Report

School of Agriculture and Environmental Science

Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance curriculum alignment with state-of-the-art trends	Reviewed and updated course content in consultation with industry experts and academic bodies to include recent advancements in naturopathy and wellness.	Improved relevance of the curriculum, ensuring students are more aware of contemporary trends and technologies.
2	Improve preparation for national/international competition	Introduced optional workshops, competitive exam coaching, and inter-college project exhibitions.	Better preparedness among students for competitive platforms and enhanced exposure to national/international standards.
3	Address the social and global impact of domain knowledge	Integrated modules on global health policies, public health awareness, and case studies on international naturopathy	Students gained broader perspective on the societal and global applications of their

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		practices.	knowledge.
4	Foster independent decision-making	Introduced experiential learning methods such as case-based discussions, peer reviews, and student-led seminars.	Encouraged critical thinking and autonomy in learning, leading to more confident and self-directed graduates.

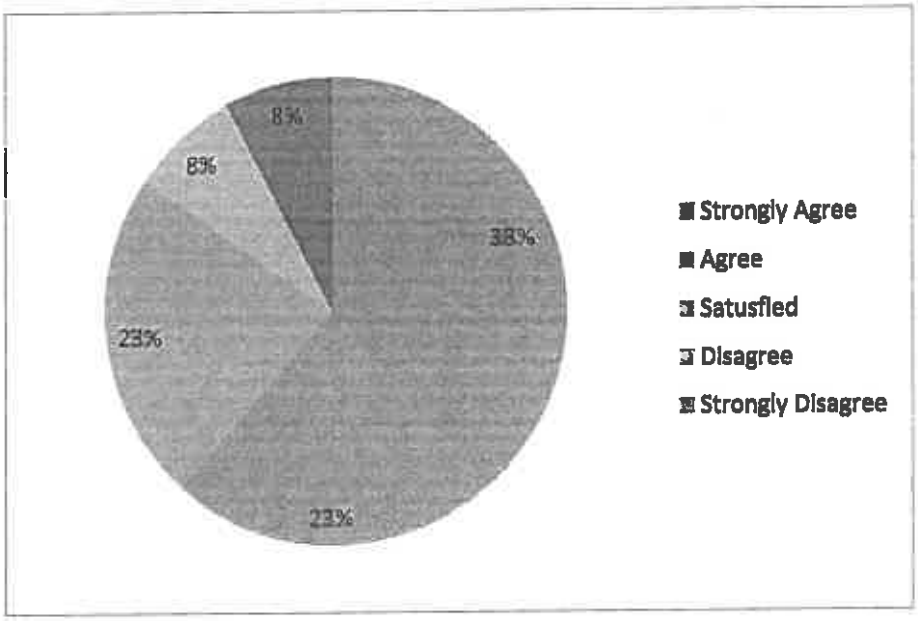
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Analysis of Employer's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 curriculum assists the students to acquire necessary entry level skills in industrial sector.

The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	38.5	23.1	23.1	7.7	7.7

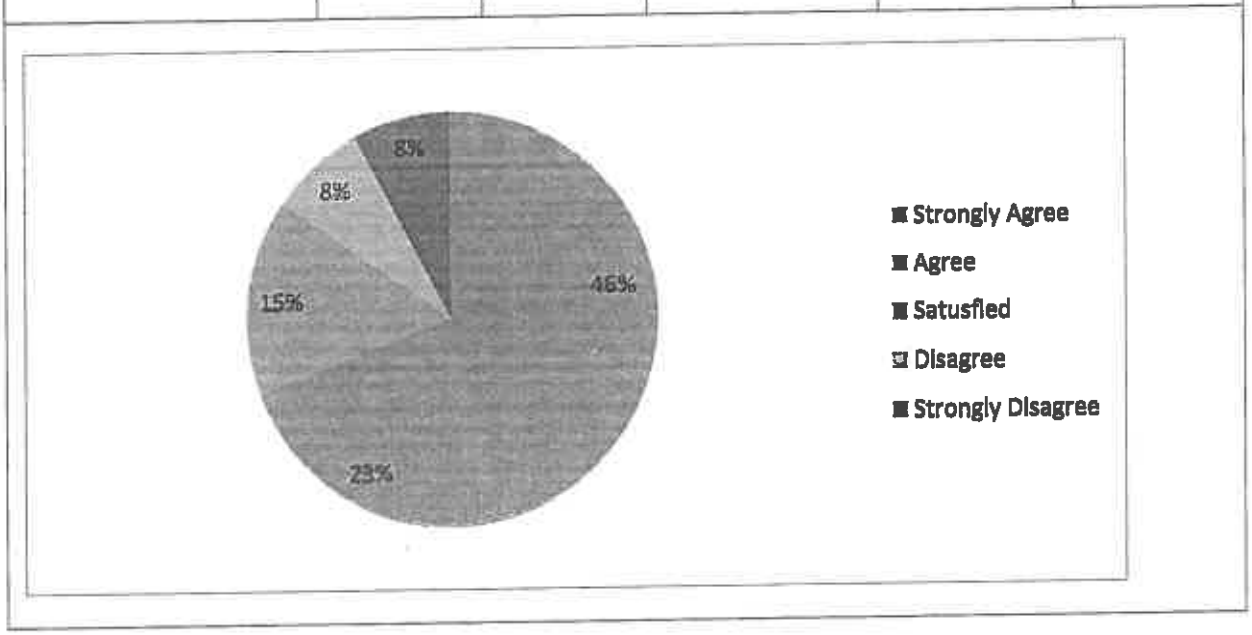


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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

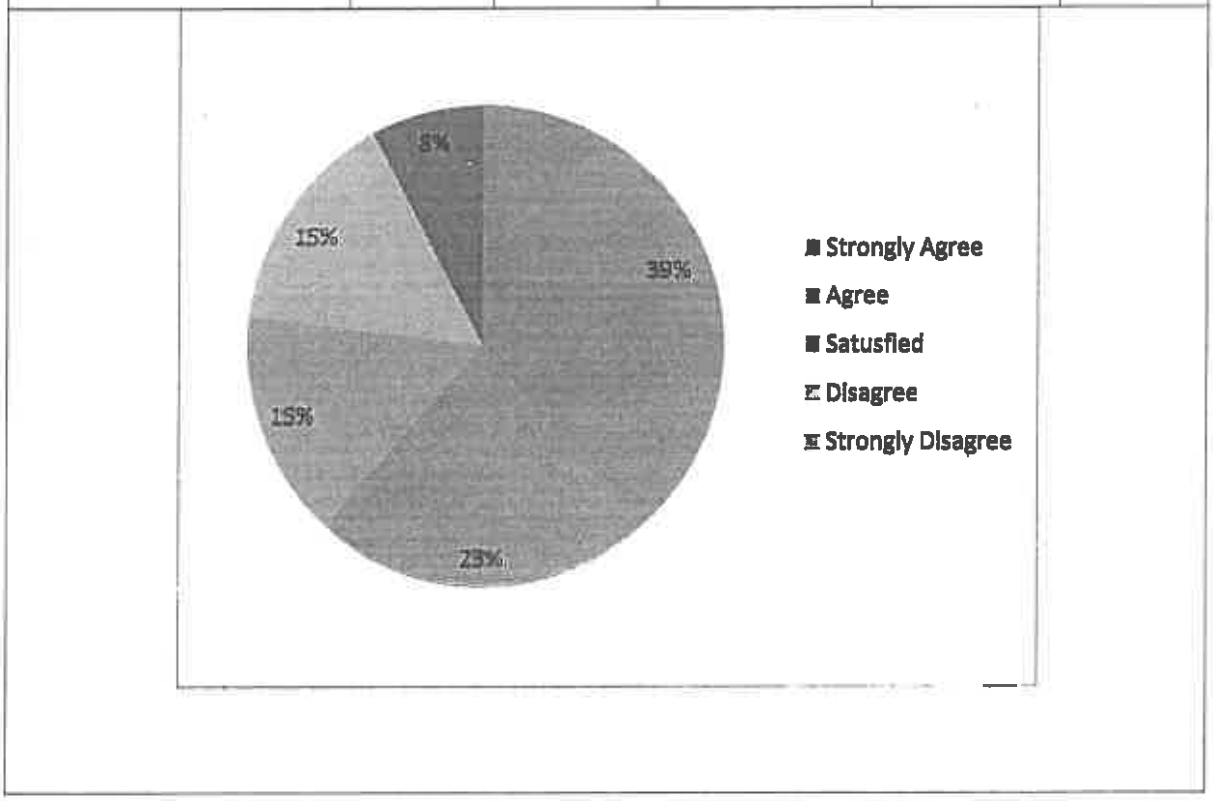
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	46.15	23.08	15.38	7.69	7.69



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

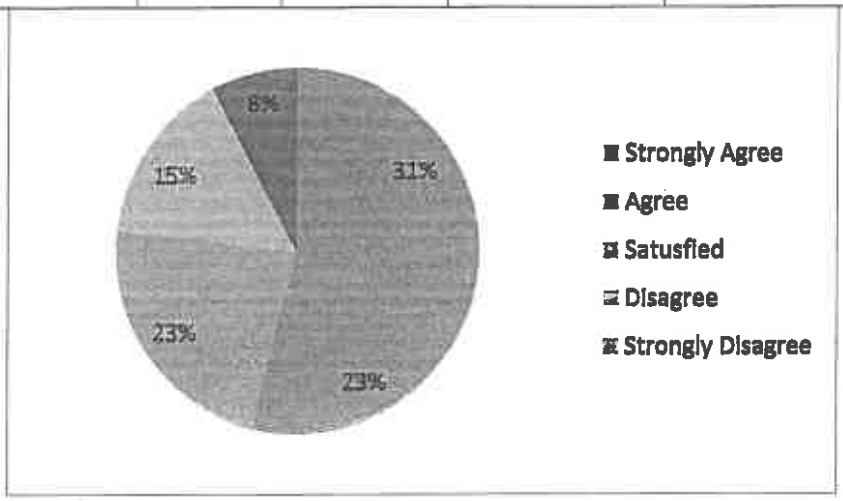
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	38.46	23.08	15.38	15.38	7.69



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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

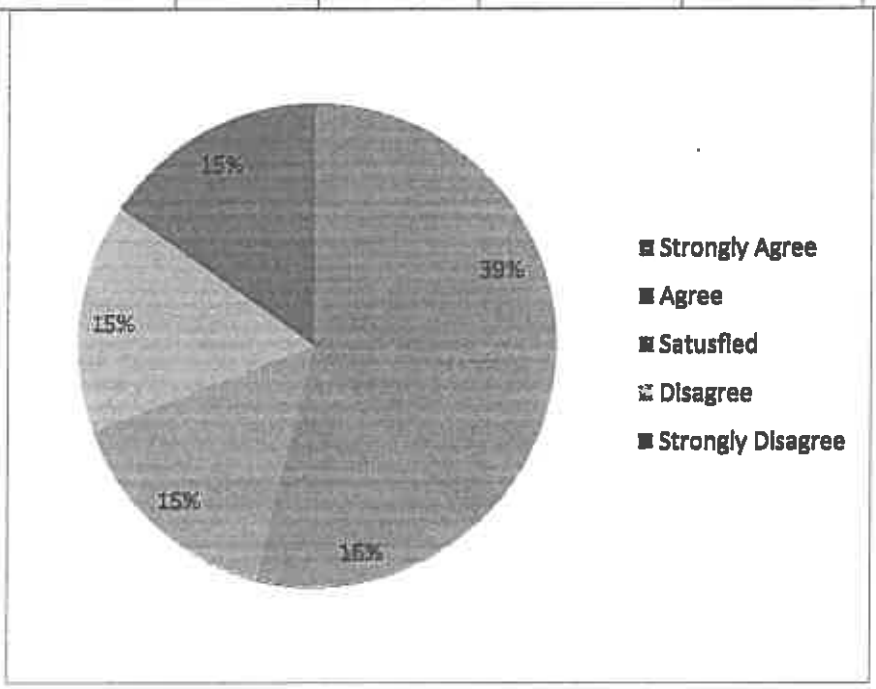
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	30.77	23.08	23.08	15.38	7.69



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

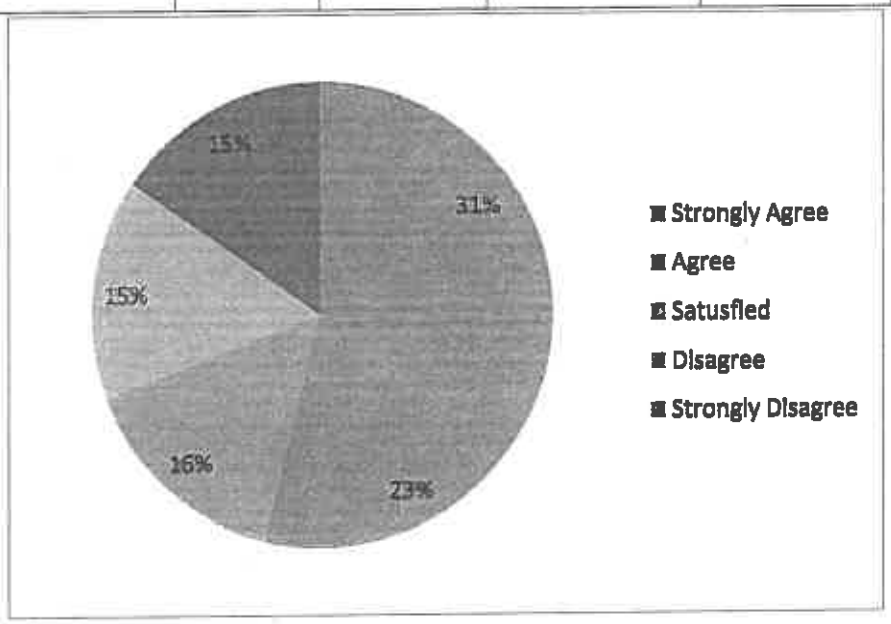
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	38.46	15.38	15.38	15.38	15.38



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

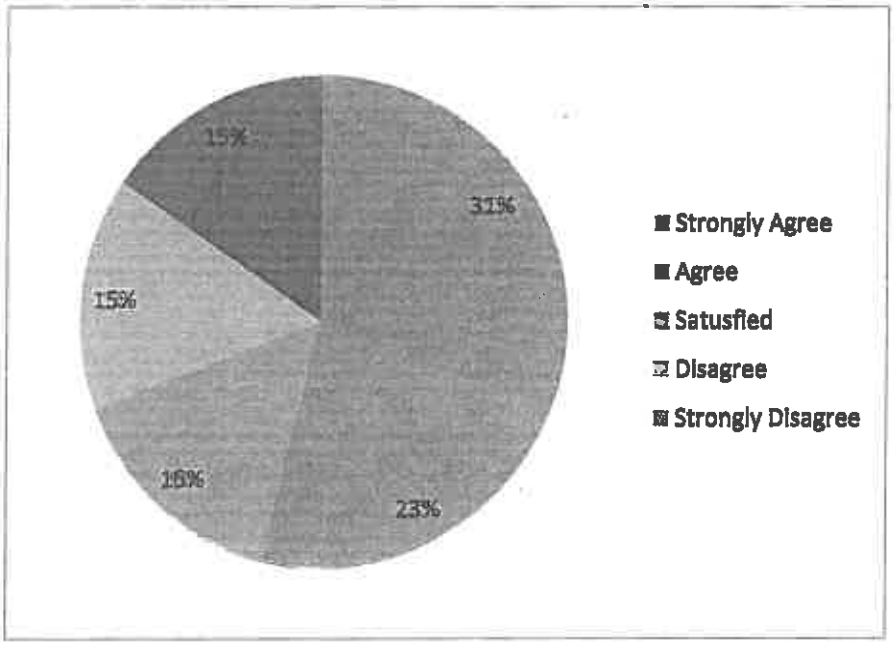
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	30.77	23.08	15.38	15.38	15.38



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics.

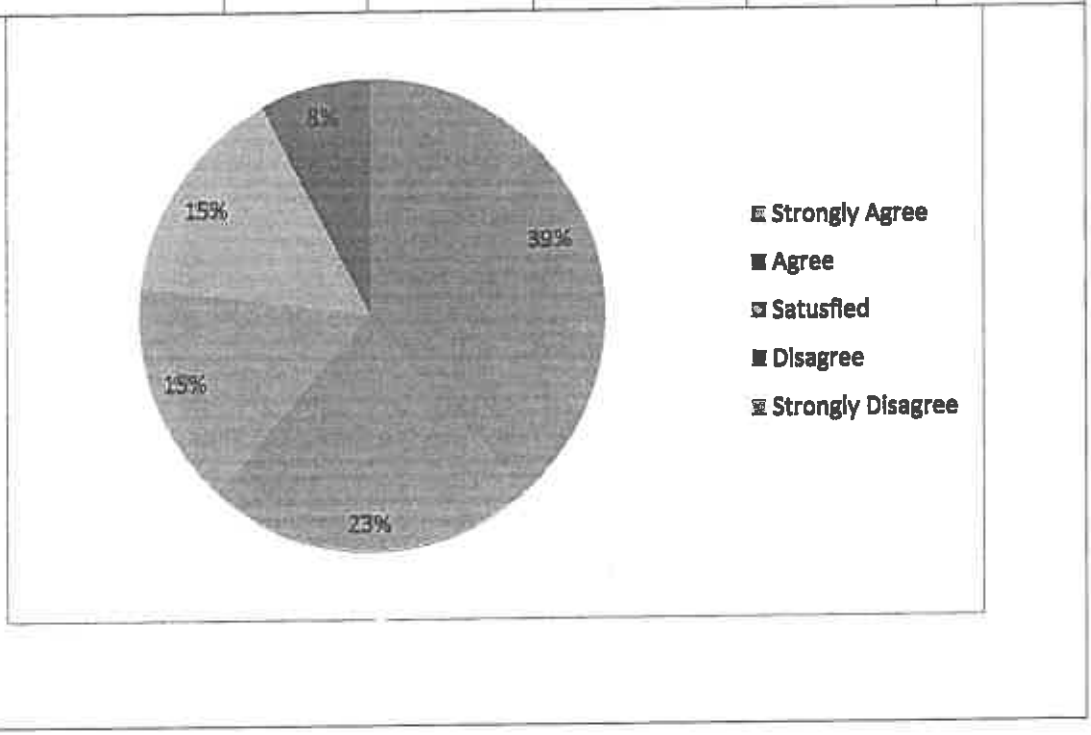
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	30.77	23.08	15.38	15.38	15.38



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

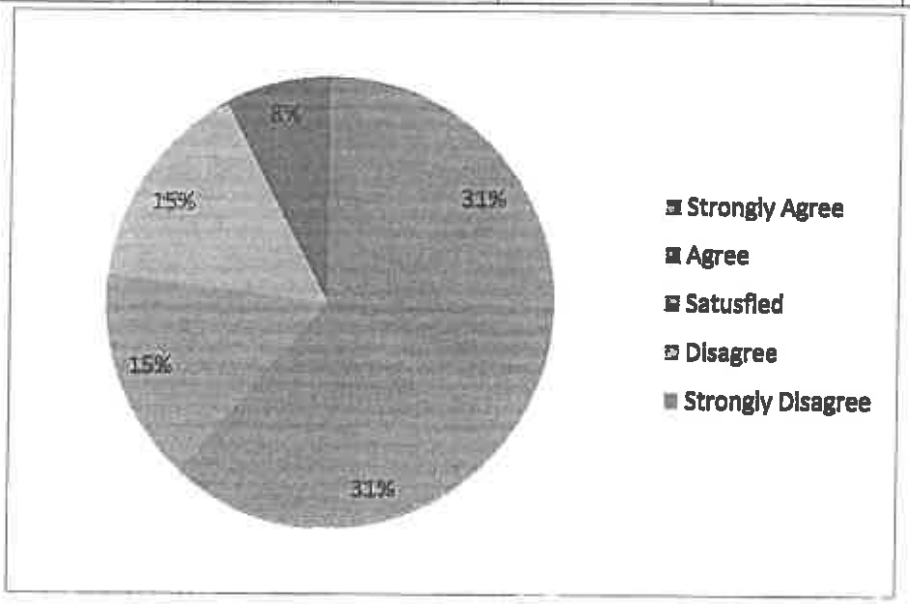
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	38.46	23.08	15.38	15.38	7.69



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for student's holistic development	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	30.77	30.77	15.38	15.38	7.69



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School of Agriculture and Environmental Sciences

Total no. of Employer: 13		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Academicians	5	3	3	1	1
	Percentage	38.46	23.08	23.08	7.69	7.69
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Academicians	6	3	2	1	1
	Percentage	46.15	23.08	15.38	7.69	7.69
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Academicians	5	3	2	2	1
	Percentage	38.46	23.08	15.38	15.38	7.69
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	No. of Academicians	4	3	3	2	1
	Percentage	30.77	23.08	23.08	15.38	7.69
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	5	2	2	2	2
	Percentage	38.46	15.38	15.38	15.38	15.38
The curriculum provides ample knowledge for	No. of Academicians	4	3	2	2	2

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Increased employability and to promote students for higher education.	Percentage	30.77	23.08	15.38	15.38	15.38
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	4	3	2	2	2
	Percentage	30.77	23.08	15.38	15.38	15.38
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	5	3	2	2	1
	Percentage	38.46	23.08	15.38	15.38	7.69
The courses have adequate balance between theory and application for student's holistic development.	No. of Academicians	4	4	2	2	1
	Percentage	30.77	30.77	15.38	15.38	7.69

Analysis of Feedback:

The employers' feedback on the curriculum reveals a generally positive yet varied perspective across different aspects. High ratings of 84.62% and 84.61% were given for the curriculum's effectiveness in equipping students with entry-level industrial skills and supporting lifelong learning and adaptability to new technologies, reflecting strong alignment with foundational industry requirements. Moderate ratings around 76.92%–76.93% were observed for multidisciplinary exposure, teamwork, credit allocation, and the balance between theory and application—indicating these areas are satisfactory but may benefit from refinement. However, lower scores of 69.22%–69.23% for entrepreneurial readiness, employability, and personality development suggest that the curriculum could be further strengthened to better support career readiness, innovation, and soft skill growth. Overall, while the curriculum is well-received in terms of core competencies, focused improvements in entrepreneurship and holistic development could enhance its industry relevance further.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

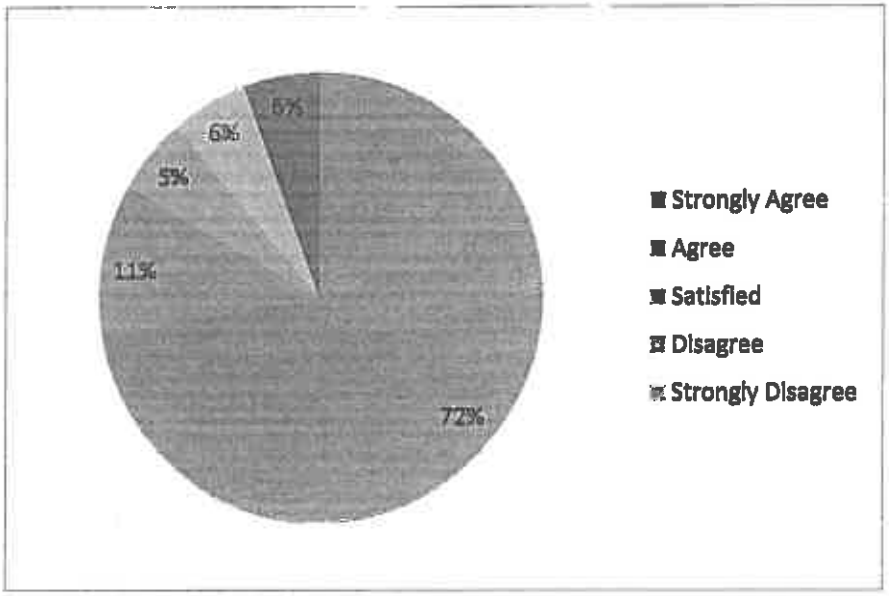
Sr. No.	Suggestions	Action Taken	Outcome
1	Integrate Climate Change and Sustainability Education	Developed courses on climate-resilient agriculture, soil health management, and water conservation techniques.	Equipped students with knowledge to address climate-related challenges in agriculture.
2	Incorporate Advanced Agricultural Technologies	Introduced training on precision agriculture, remote sensing, GIS, and data analytics tools.	Increased student proficiency in modern agricultural technologies, enhancing productivity and sustainability.
3	Enhance Community Engagement and Extension Services	Organized community outreach programs, extension services, and participatory workshops with local farmers.	Strengthened the connection between students and the community, promoting knowledge exchange and collaborative learning.
4	Develop Policy Analysis and Advocacy Skills	Added modules on agricultural policies, advocacy strategies, and public speaking.	Prepared students to influence agricultural policies and advocate for sustainable practices effectively.

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Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

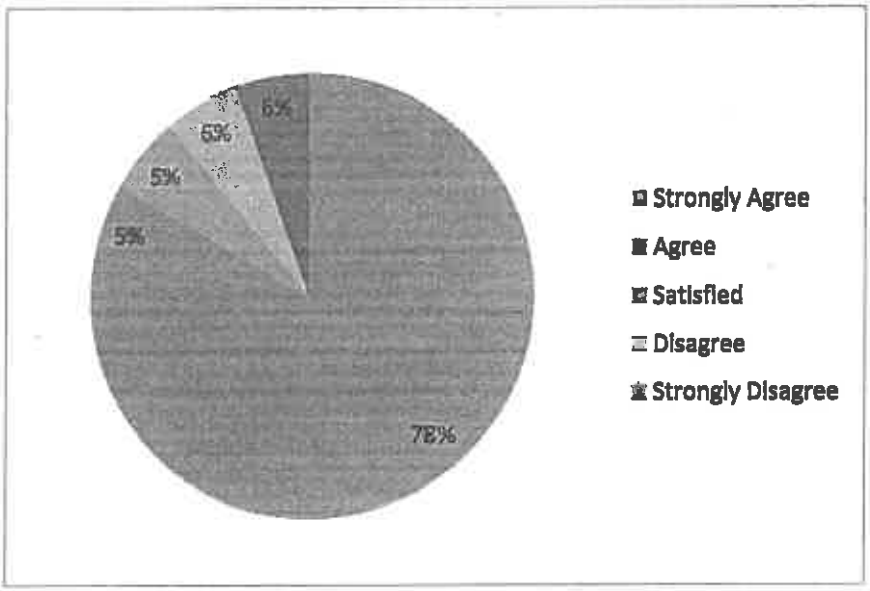
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	11.11	5.55	5.55	5.55



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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

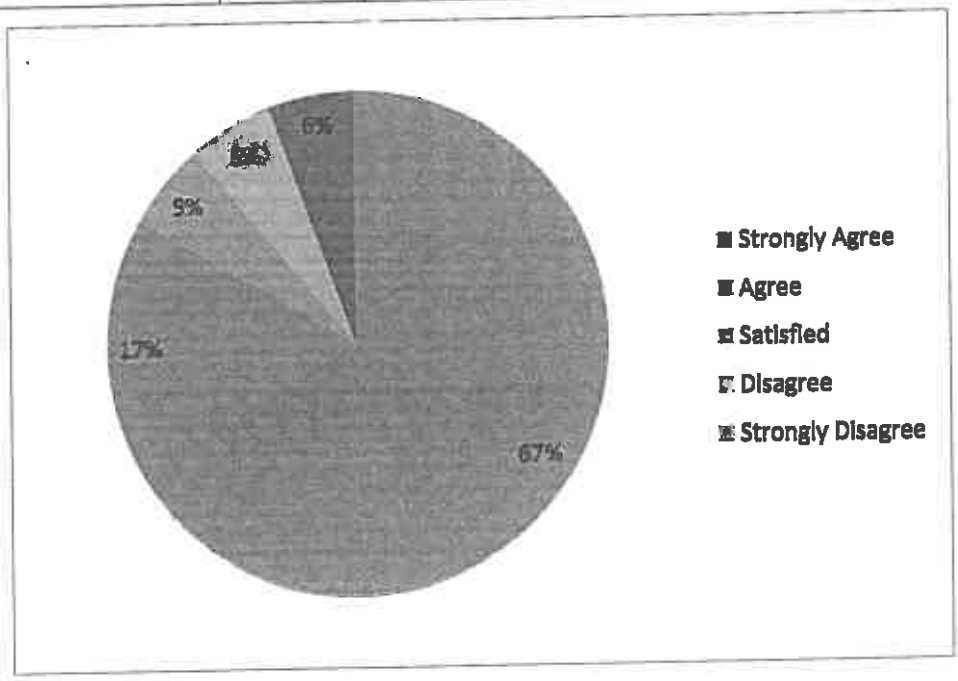
The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.77	5.55	5.55	5.55	5.55



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

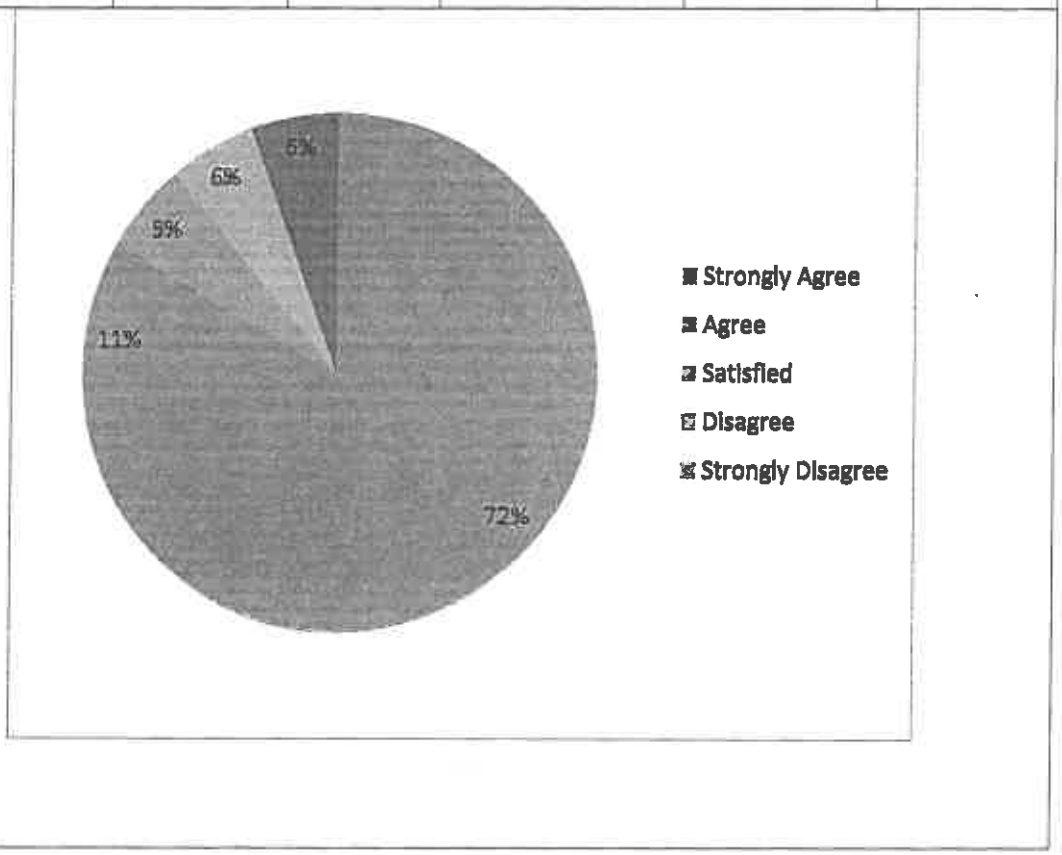
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55



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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

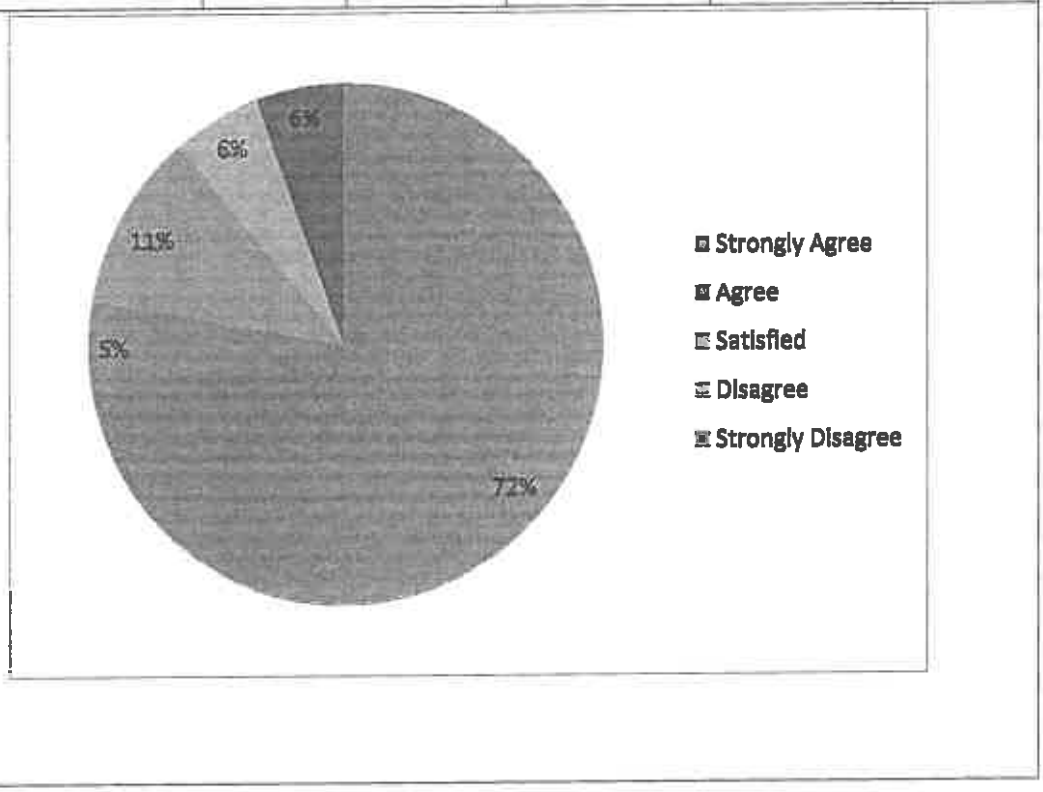
Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	11.11	5.55	5.55	5.55



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

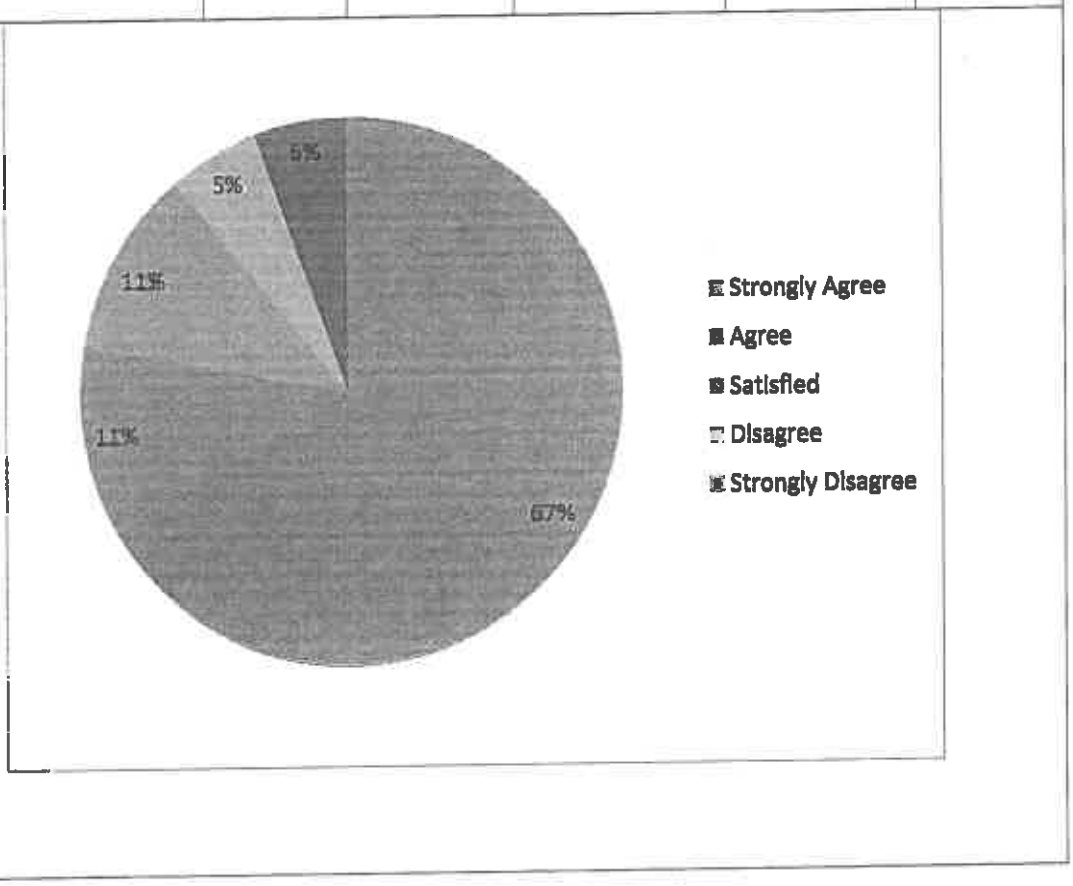
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

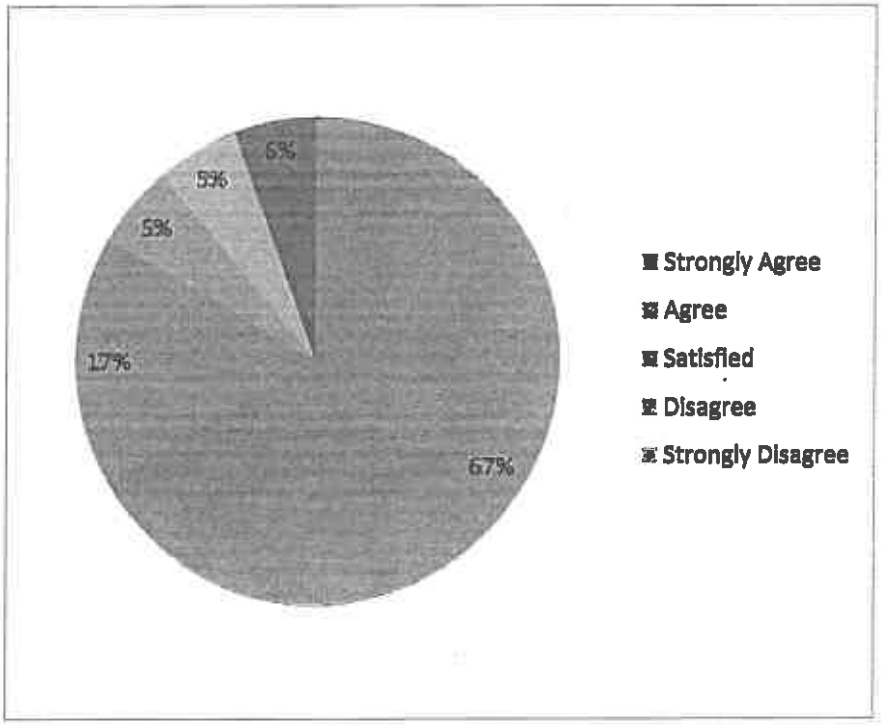
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	11.11	11.11	5.55	5.55



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

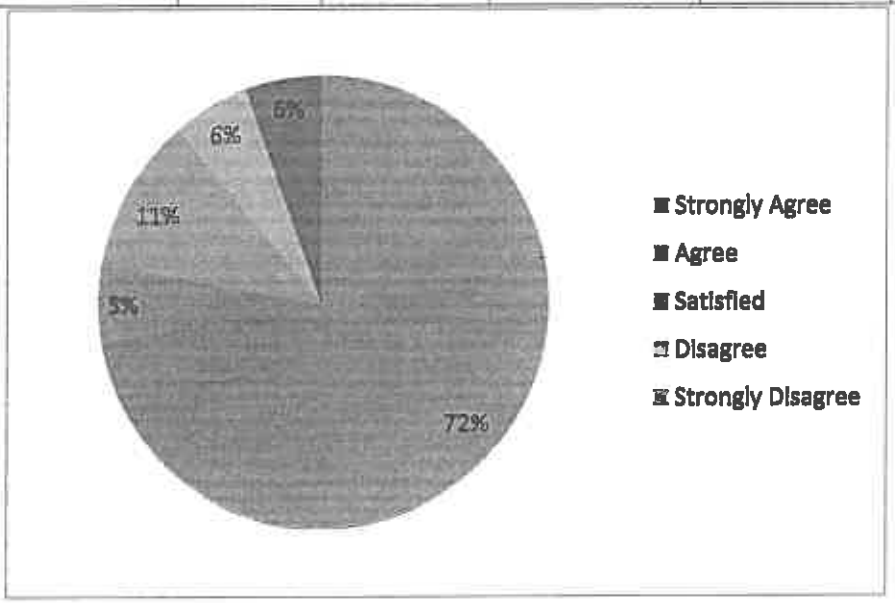
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

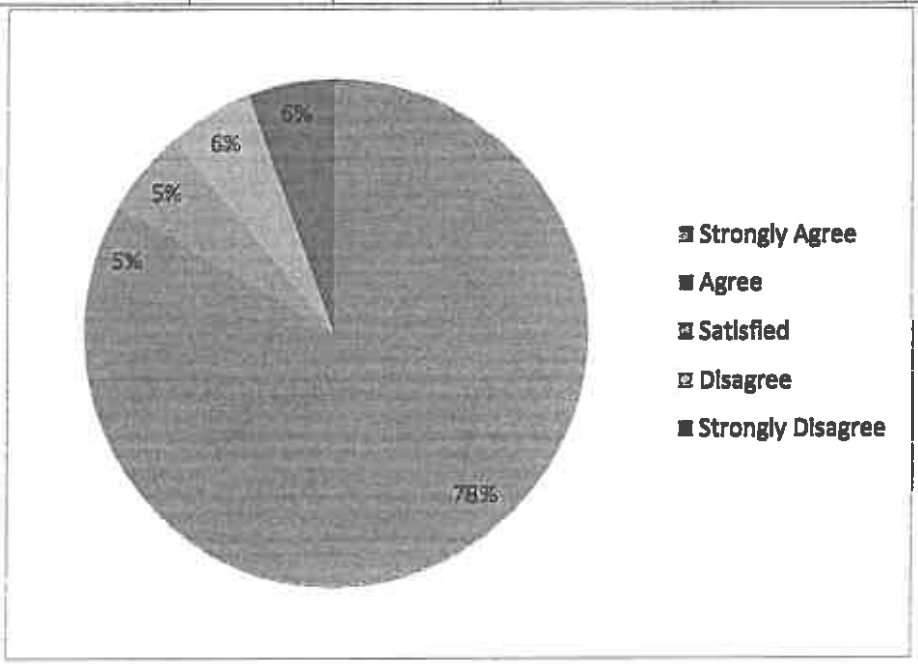
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.55	5.55	5.55	5.55	5.55



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School of Agriculture and Environmental Science(18)						
Total no. of Peer Academicians: 18		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
.Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The curriculum provides ample knowledge for increased employability and to promote students	No. of Academicians	12.00	2.00	2.00	1.00	1.00
	Percentage	66.66	11.11	11.11	5.55	5.55

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for higher education.						
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55

Analysis of Feedback:

The peer feedback analysis reveals a generally positive evaluation of the curriculum, with the majority of the 18 participating academicians providing favorable responses. A strong 72.22% of respondents strongly agreed that the syllabus aligns well with the competencies expected from the program, and 77.77% agreed that the sequence and overall organization of the courses are appropriate. However, the curriculum's scope for multidisciplinary knowledge and the availability of electives received a slightly lower score, with 66.66% of peers strongly agreeing on this aspect. The emphasis on self-learning was well-received, with 72.22% of academicians strongly agreeing that extra care has been taken in designing the courses to encourage independent learning. Entrepreneurial skills and industry readiness were seen as adequately addressed, but with some room for improvement, as 72.22% strongly agreed and 11.11% were neutral. The curriculum's focus on employability and higher education promotion also scored 66.66% in strong agreement, indicating potential for further enhancement in these areas. Regarding personality development through human values and professional ethics, 66.66% of respondents strongly agreed, but this area might benefit from further focus. The overall organization, credit allocation, and balance between theory and application were seen positively, with 72.22% strongly agreeing. In summary, while the curriculum is viewed as well-structured and comprehensive, there are areas such as multidisciplinary opportunities, entrepreneurial readiness, and personality development where improvements could strengthen its overall impact.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

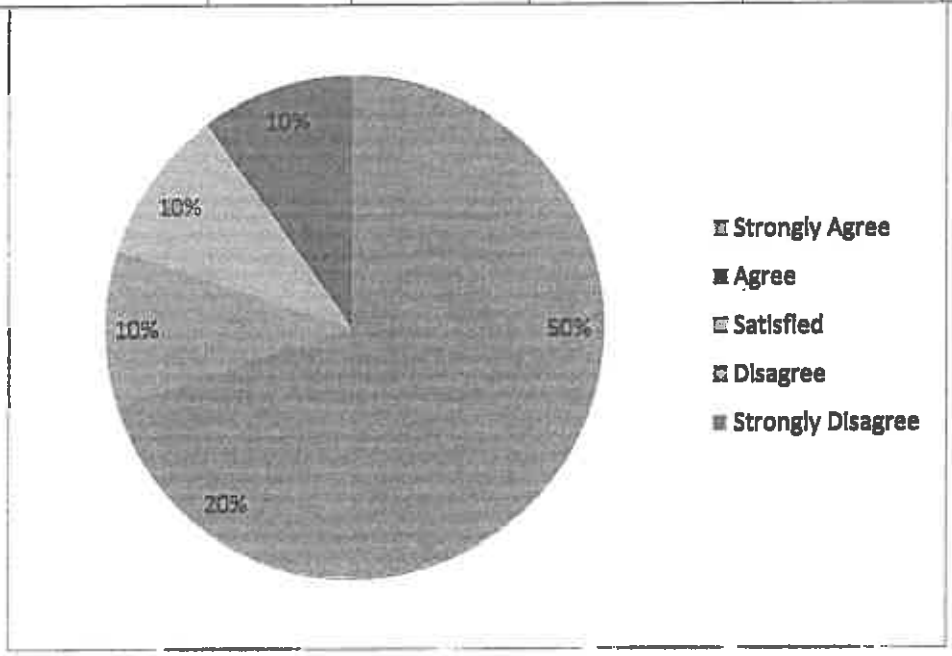
Sr. No.	Suggestions	Action taken	Outcome
1	Strengthen personality development and professional ethics courses	Introduced advanced workshops on environmental ethics, leadership in agriculture, and sustainable development	Enhanced student awareness of ethical and leadership issues in agricultural and environmental sectors
2	Continue offering multidisciplinary knowledge and diverse electives	Expanded electives in areas like agri-tech, environmental policy, and sustainable farming practices	Students gained broader expertise, allowing them to tailor their studies to current industry trends
3	Improve self-learning and entrepreneurship opportunities	Launched student-led innovation challenges in sustainable farming, and partnered with agribusiness startups for practical exposure	Increased student participation in entrepreneurial activities and real-world projects
4	Maintain focus on practical application and industry readiness	Increased fieldwork, lab experiments, and industry internships; collaborated with environmental NGOs for hands-on experience	Strengthened practical skills and industry connections, leading to better student employability

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Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

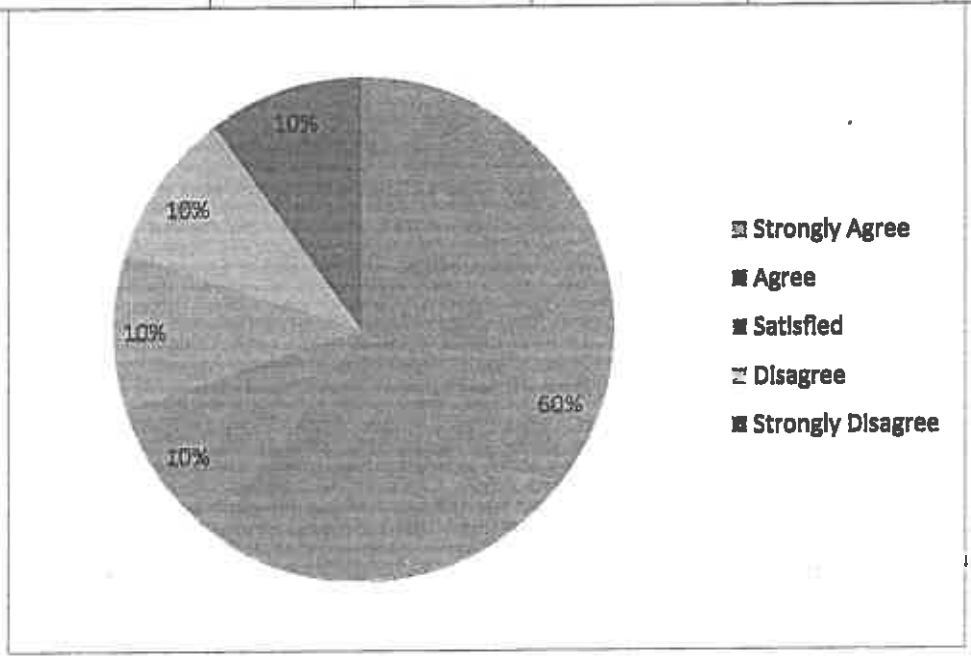
The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	20.00	10.00	10.00	10.00



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Q.2 The courses have adequate balance between theory and application for student's holistic development.

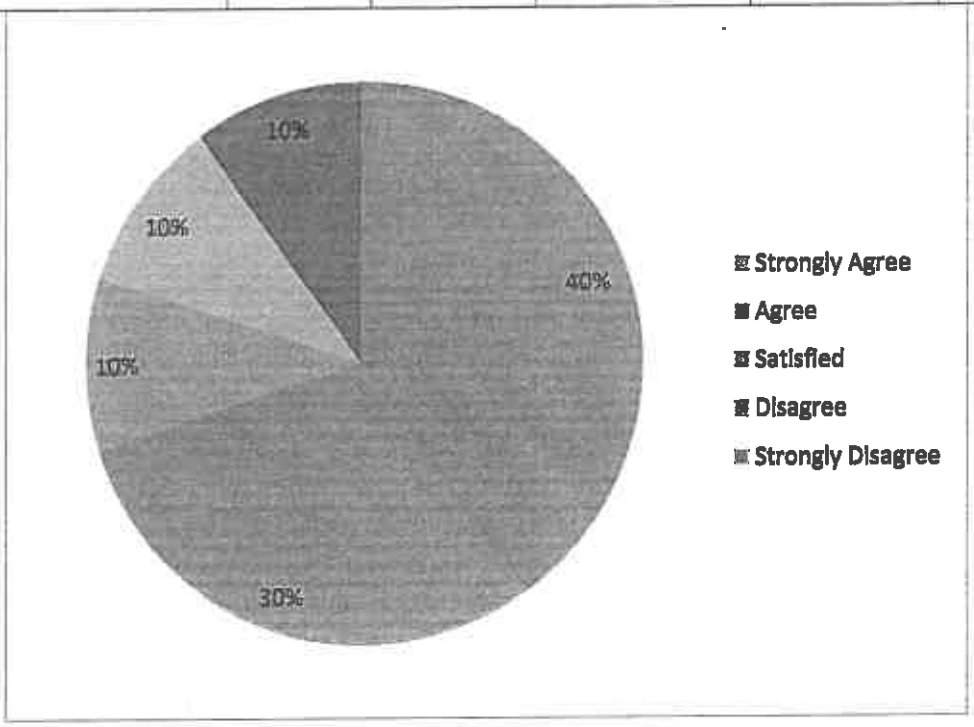
The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60.00	10.00	10.00	10.00	10.00



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

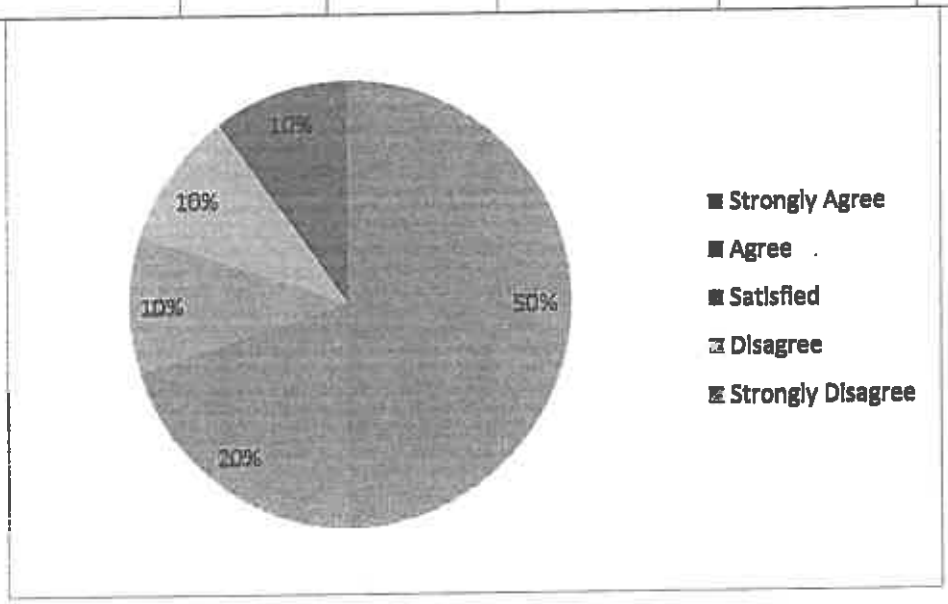
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	30.00	10.00	10.00	10.00



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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

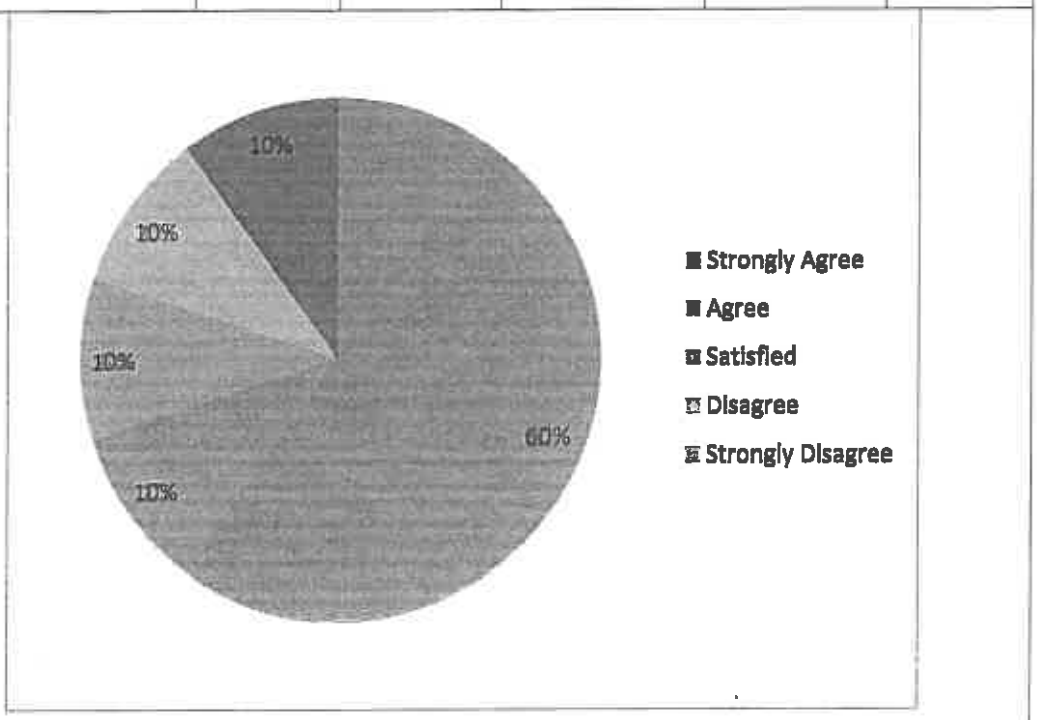
The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	20.00	10.00	10.00	10.00



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

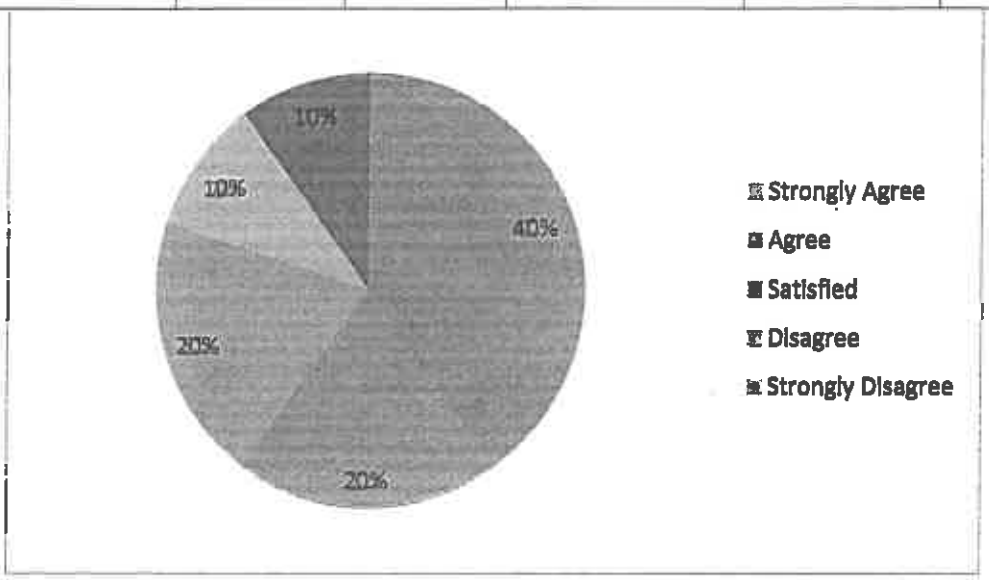
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60.00	10.00	10.00	10.00	10.00



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

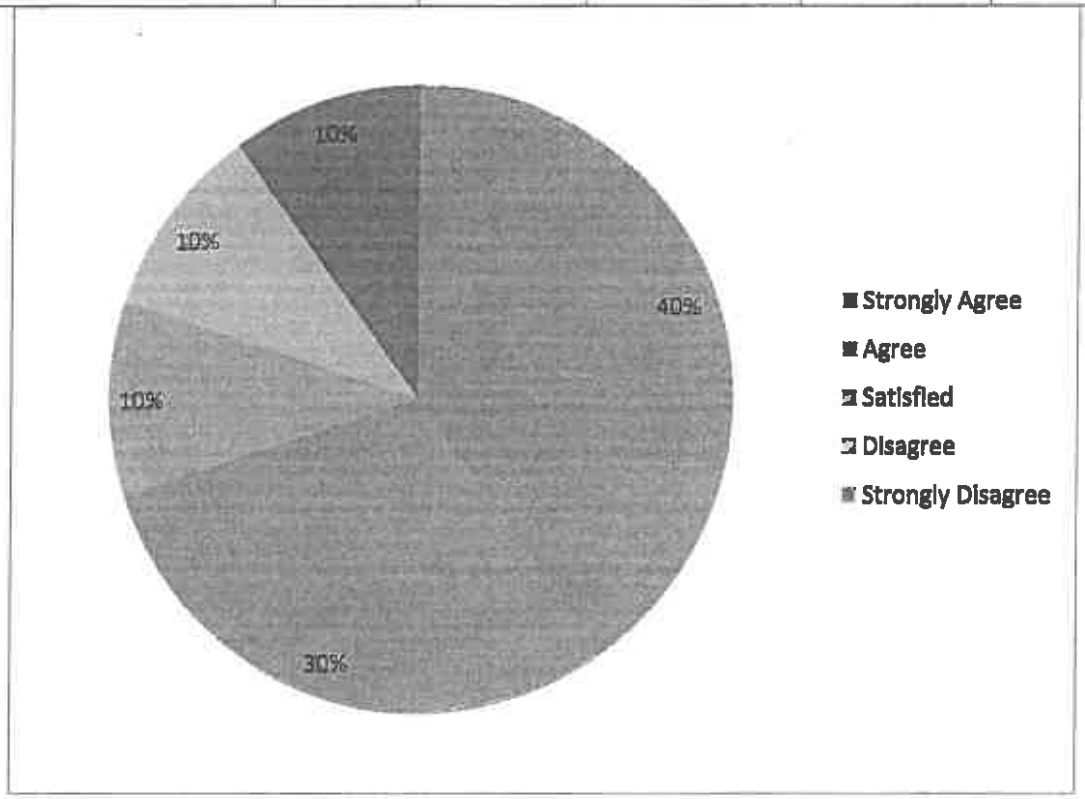
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	20.00	20.00	10.00	10.00



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Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

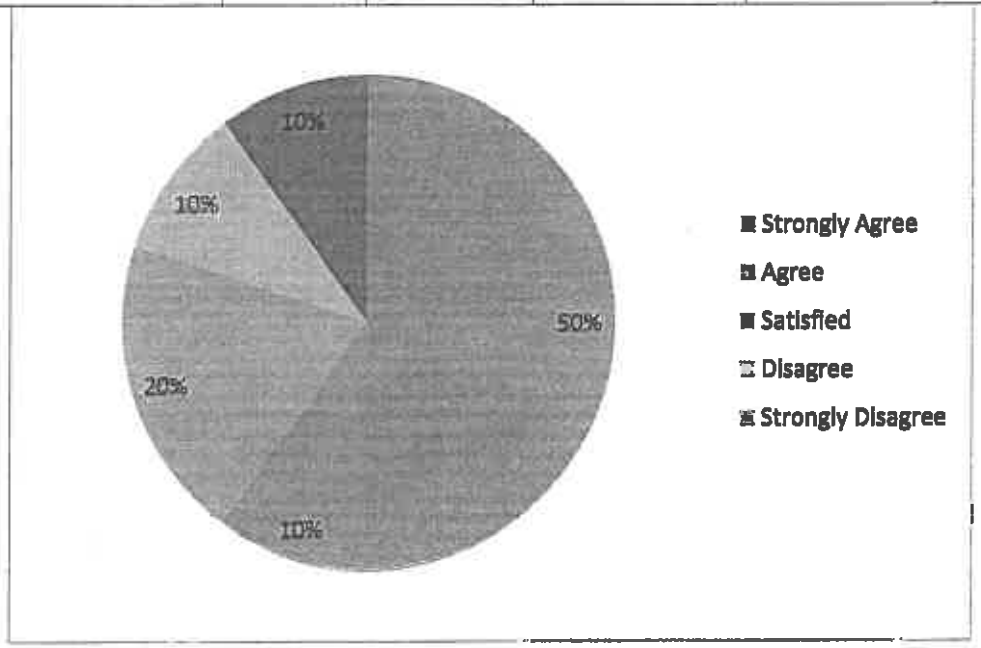
The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	30.00	10.00	10.00	10.00



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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

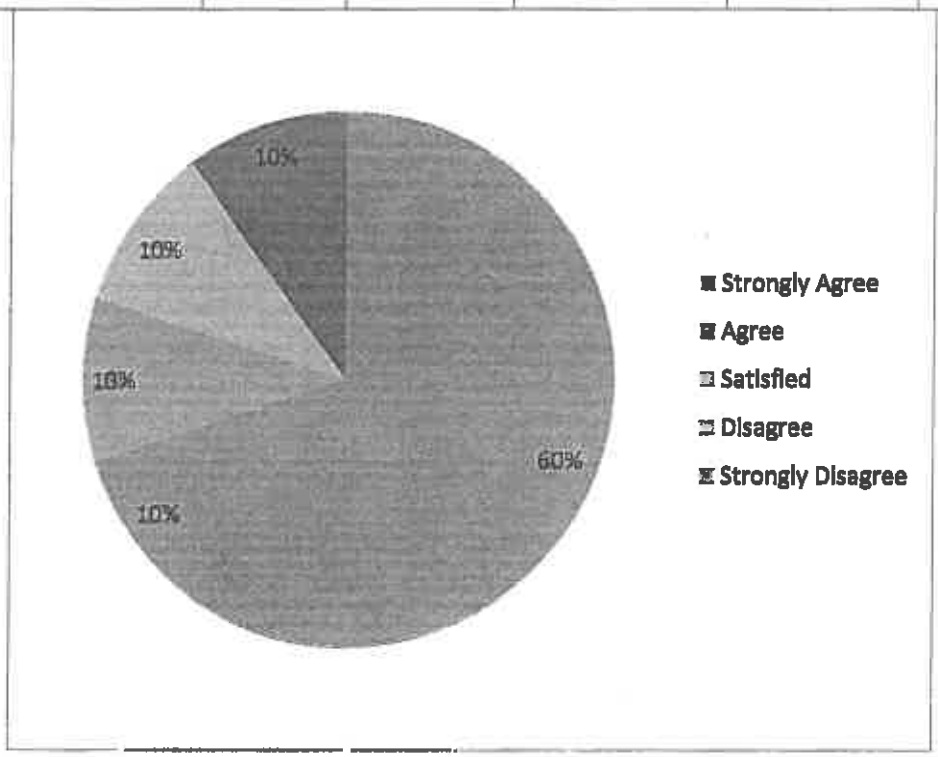
Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	10.00	20.00	10.00	10.00



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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60.00	10.00	10.00	10.00	10.00



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School of Agriculture & Environmental Sciences(10)

Total no. of Teachers : 10		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	5.00	2.00	1.00	1.00	1.00
	Percentage	50.00	20.00	10.00	10.00	10.00
The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	6.00	1.00	1.00	1.00	1.00
	Percentage	60.00	10.00	10.00	10.00	10.00
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	4.00	3.00	1.00	1.00	1.00
	Percentage	40.00	30.00	10.00	10.00	10.00
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	5.00	2.00	1.00	1.00	1.00
	Percentage	50.00	20.00	10.00	10.00	10.00
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	6.00	1.00	1.00	1.00	1.00
	Percentage	60.00	10.00	10.00	10.00	10.00

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The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Teachers	4.00	2.00	2.00	1.00	1.00
	Percentage	40.00	20.00	20.00	10.00	10.00
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	4.00	3.00	1.00	1.00	1.00
	Percentage	40.00	30.00	10.00	10.00	10.00
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	5.00	1.00	2.00	1.00	1.00
	Percentage	50.00	10.00	20.00	10.00	10.00
The existing system for curriculum revision is found to be effective.	No. of Teachers	6.00	1.00	1.00	1.00	1.00
	Percentage	60.00	10.00	10.00	10.00	10.00

Analysis of Feedback:

The feedback on the curriculum reflects a consistent and positive perception across all areas, with each aspect receiving a solid rating of 80%. The curriculum is recognized for being well-organized and balanced, with effective credit allocation and a good balance between theory and application, contributing to students' holistic development. It also provides adequate scope for multidisciplinary knowledge and offers a sufficient number of electives.

The presence of courses on human values and professional ethics, along with a focus on improving entrepreneurial skills and industry readiness, has been positively noted. Additionally, the curriculum is seen to contribute to enhancing employability and addressing local/global societal issues effectively.

Faculty members appreciate the freedom given to contribute to the design and development of the curriculum, and the curriculum revision process is viewed as effective. While these positive responses indicate a strong foundation, the uniformity of the ratings suggests there may still be room for fine-tuning and further strengthening in some areas.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action taken	Outcome
1	**Enhance multidisciplinary knowledge and increase elective options**	Introduced new elective modules in allied sciences, including environmental management, sustainable agriculture, and agri-business. Collaborated with other departments to offer cross-disciplinary workshops and seminars.	Expanded elective offerings and interdisciplinary exposure; providing students with broader academic choices and perspectives.
2	**Improve employability and higher education promotion**	Organized career counseling sessions, invited industry experts for guest lectures, and established partnerships with agricultural institutions for internships. Developed a mentorship program to guide students on higher education opportunities.	Enhanced student awareness of career paths and postgraduate options, leading to increased internship placements and higher education enrollments.
3	**Strengthen curriculum's ability to address societal problem-solving**	Integrated community-based projects into the curriculum, encouraging students to engage with local agricultural issues. Collaborated with NGOs to provide real-world problem-solving experiences.	Improved students' practical skills in addressing community agricultural challenges, fostering a sense of social responsibility and real-world application of knowledge.
4	**Enhance curriculum revision system**	Established a Curriculum Review Committee including faculty, industry professionals, and alumni to regularly assess and update course content. Implemented a feedback loop to	Created a dynamic and responsive curriculum that evolves with industry trends and academic advancements, ensuring relevance and

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		Incorporate suggestions from all stakeholders.	quality.

Annexure-3 (Item BOS 14.4)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2019-2020)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102 Fundamentals of Genetics	External Examiner 1. Dr. S. K. Singh, Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr.AshvaniPanwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr.AyushBahuguna , Assistant Professor, (CCSR	7668586615

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		PG College, Muzaffarnagar)	ayushbahuguna1995@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com

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		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in

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7)	BAG-114 Fundamentals of Entomology	Internal Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com

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9)	BAG-118 Communication Skills and Personality Development	1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		2. Dr. L. B. Singh Professor , SVBPUAT Meerut	09450155766 dr.lbsingh@gmail.com
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+ 91-9411039192, 8630896418 Email: singhjp2005@gmail.com

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		Internal Examiner 1 Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1 Dr. Mahemdru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology	External Examiner 1. Dr. Rakesh Kumar Singh	9412113662 hahe1624@gmail.com

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	for Fruit and Plantation Crops	Professor, (CCSR PG College, Muzaffarnagar)	
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		Internal Examiner 1. Dr Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		2. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		Internal Examiner 1 Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in

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		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
17)	BAG-216 Agricultural Marketing Trade & Prices	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		2. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		Internal Examiner 1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Professor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
19)	BAG-304 Protected Cultivation	External Examiner 1. Dr. Rabeesh Kumar Verma	+91-7988338378 rabeesh4700@gmail.com

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	and Secondary Agriculture	Assistant Professor (CCSR PG College, Muzaffarnagar	
		2. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com

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		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

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24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management,	External Examiner 1. Dr. Adesh Kumar Assistant Professor	09412628586 adeshsingh29@rediffmail.com

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	Production & Resource Economics	SVBPUAT, Meerut	
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

Signed by:

(Chairman, BOS)

School of Agriculture & Allied Sciences ★ H.o.D. ★ SHOBHIT UNIVERSITY GANGOH

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH ★ REGISTRAR ★ Saharanpur (U.P.)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 16.06.2020

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 26.06.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

Agenda:

1. Approval of the Minutes of the 14th BOS Meeting held on 20 Dec. 2019 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Honors for session **July to Dec. 2020**.
3. Discussion on the Value Added courses offered for students and ratification of the same.
4. Any other matter with the permission of the Chair.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY
GANGOH
HoD.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 16.06.2020

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 26.06.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 16.06.2020

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 26.06.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm Regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

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School of Agriculture & Environmental Sciences

Date: 26.06.2020

Minutes of the Meeting of Board of Studies

15th meeting of the Board of Studies of the School of SAES, Shobhit University Gangoh was organized on 26th June 2020 (at 10:00 am onwards) online through Google meet. The following members were present in the meeting:

1.	Dr. Jai Prakash Mishra Professor & Dean School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Prof.(Dr.) J P Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 15.1: Approval of the Minutes of the 14th BOS Meeting held on 20 Dec. 2019

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was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 15.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Honors for session **July to Dec. 2020**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 15.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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Annexure- 1 (Item BOS 15.1)

School of Agriculture & Environmental Sciences

Date: 30.12.2019

Minutes of the Meeting of Board of Studies

14th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 30th Dec. 2019.The following members were present in the meeting:

6.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Chairperson
7.	Prof.(Dr.) J. P. Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbir Singh Professor Gochar Mahavidayalya Rampur Maniharan Saharanpur	External Expert
4.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member
5.	Mr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University, Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

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Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 14.1: Approval of the Minutes of the 13th BOS Meeting held on 25 June 2019 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 14.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 14.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 14.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2020** . The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 14.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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Annexure- 2 (Item BOS 15.2)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2020-2021)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in

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		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor, GMV Rampur	9675000234 amit.tomar371@gmail.com
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com

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		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner	928609396

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		1. Dr. Vishvash Chand	vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in

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		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	96904123508090506371 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Crop Production	External Examiner	8923971354 singhveer@gmail.com

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	Technology – I *(Kharif Crops)* (BAG-201)	1. Dr. Dharmveer Singh Associate Professor GMV Rampur	
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar	9675000234 amit.kumar@gmail.com

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		Assistant Professor GMV Rampur	
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics (BAG-207)	External Examiner 1. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@ shobhituniversity.ac.in
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum	9557471931 asheeshmalik.9@gmail.com

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		University Roorki	
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and Disaster	External Examiner 1. Dr. Shiva	8937877339 shiva@shobhituniversity.ac.in

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	Management (BAG-213)	Associate Professor SUM	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com

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		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.co

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		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr.Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University Roorkee	9557471931 asheeshmalik.9@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com

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	309)	2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
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		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. KamleshShukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. DeepaSaini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
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8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
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		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
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		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
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Signed by:

(Chairman, BOS)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 19.12.2020

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 29.12.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

Agenda:

1. Approval of the Minutes of the 15th BOS Meeting held on 26 June 2020 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report:
3. Analysis of the feedback on curriculum from stakeholders.
4. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June. 2021.**
5. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 19.12.2020

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 29.12.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY
GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 19.12.2020

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 29.12.2020
Time: 10:00 am
Mode Online: https://meet.google.com/

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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School of Agriculture & Environmental Sciences

Date: 29.12.2020

Minutes of the Meeting of Board of Studies

16th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 29th Dec. 2020 (at 10:00 am onwards) online through Google meet. The following members were present in the meeting:

1.	Dr. Jai Prakash Mishra Professor & Dean School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Prof.(Dr.) J.P. Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 16.1: Approval of the Minutes of the 15th BOS Meeting held on 26 June 2020 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 16.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 16.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 16.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June. 2021**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 16.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Allied Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean, Academies)

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Annexure-1 (Item BOS 16.1)
School of Agriculture & Environmental Sciences

Date: 26.06.2020

Minutes of the Meeting of Board of Studies

15th meeting of the Board of Studies of the School of SAES, Shobhit University Gangoh was organized on 26th June 2020 (at 10:00 am onwards) online through Google meet. The following members were present in the meeting:

6.	Dr. Jai Prakash Mishra Professor & Dean School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
7.	Prof.(Dr.) J P Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

Shobhit University
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The following discussed and approved on Choice Based Credit System:

Item BOS 15.1: Approval of the Minutes of the 14th BOS Meeting held on 20 Dec. 2019 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 15.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Honors for session **July to Dec. 2020**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 15.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Allied Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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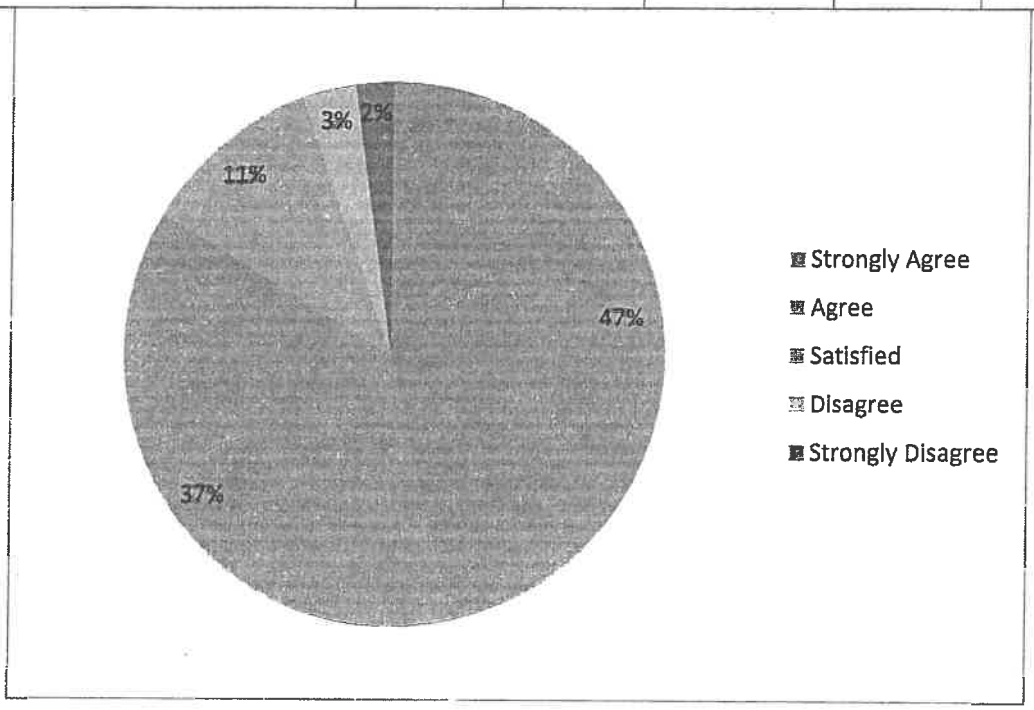
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Annexure-2 (Item BOS 16.2 & 16.3)

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	46.36364	37.27273	10.90909	3.181818	2.272727

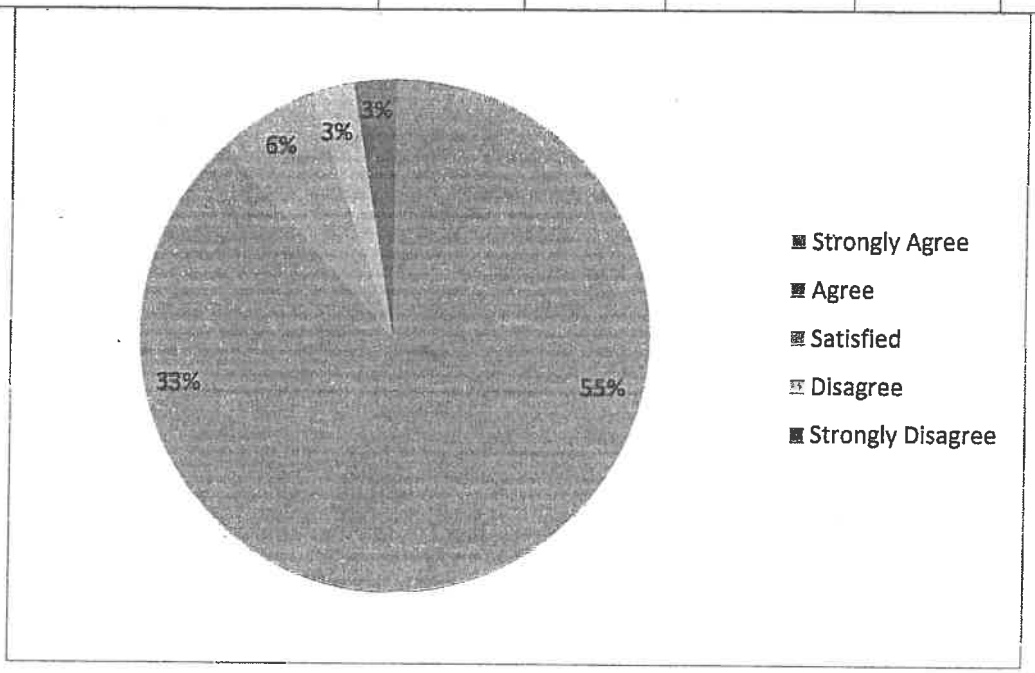


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Q.2. How do you rate the course outcomes and relevance to the course content?

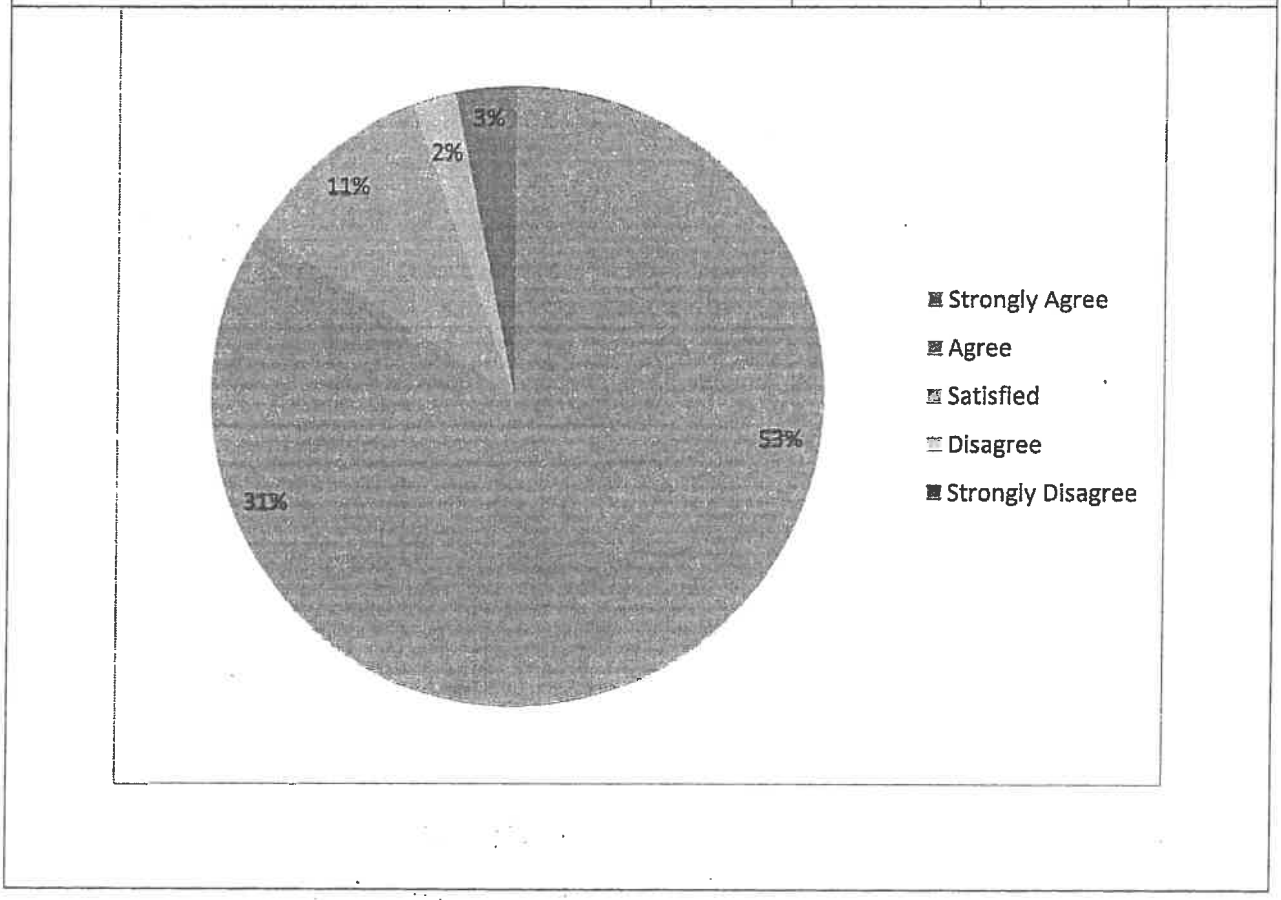
Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55.45455	32.72727	6.363636	2.727273	2.727273



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Q.3. How do you rate the sequence of units in the courses?

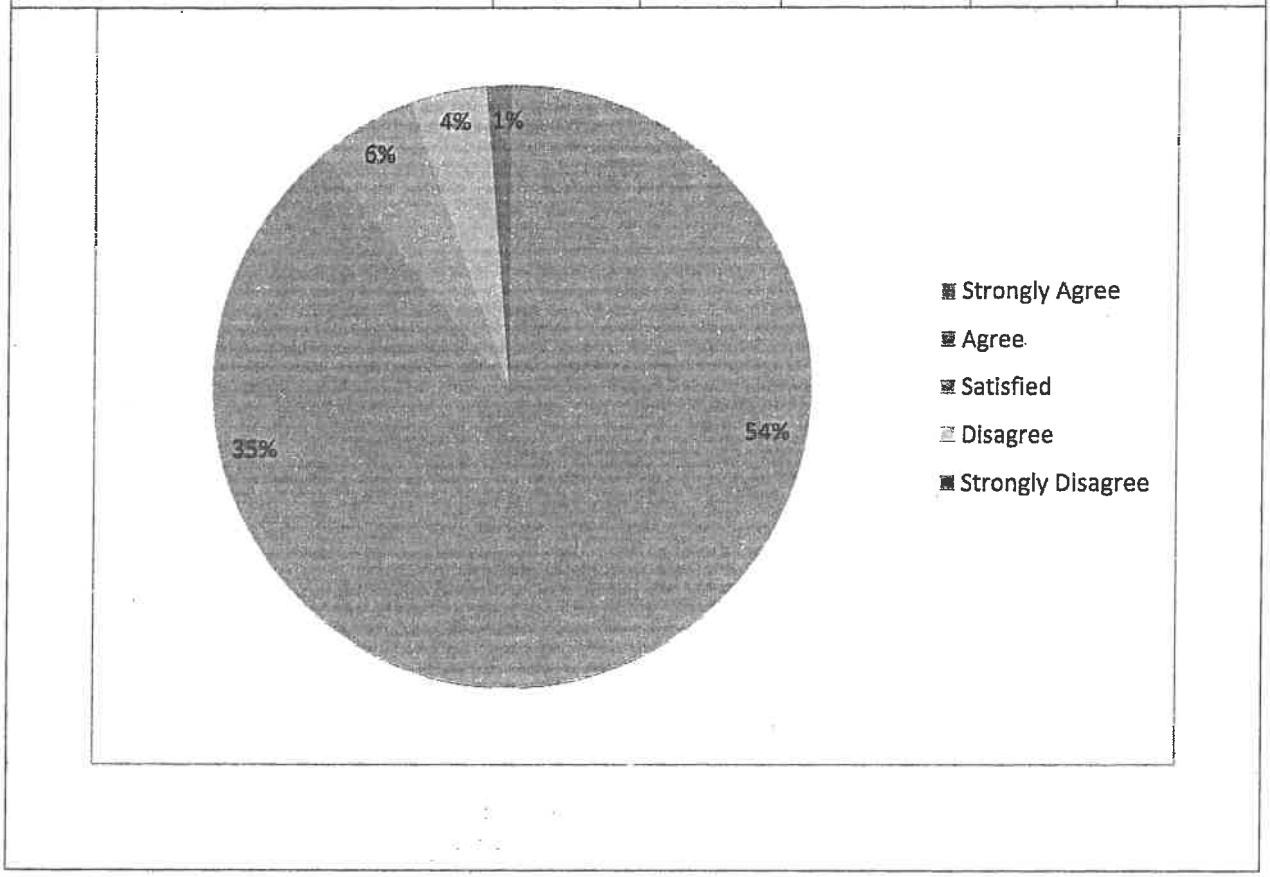
Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.18182	30.90909	10.45455	2.272727	3.181818



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Q.4. How do you rate the credits allotted to individual courses?

Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.63636	35.45455	5.454545	4.090909	1.363636

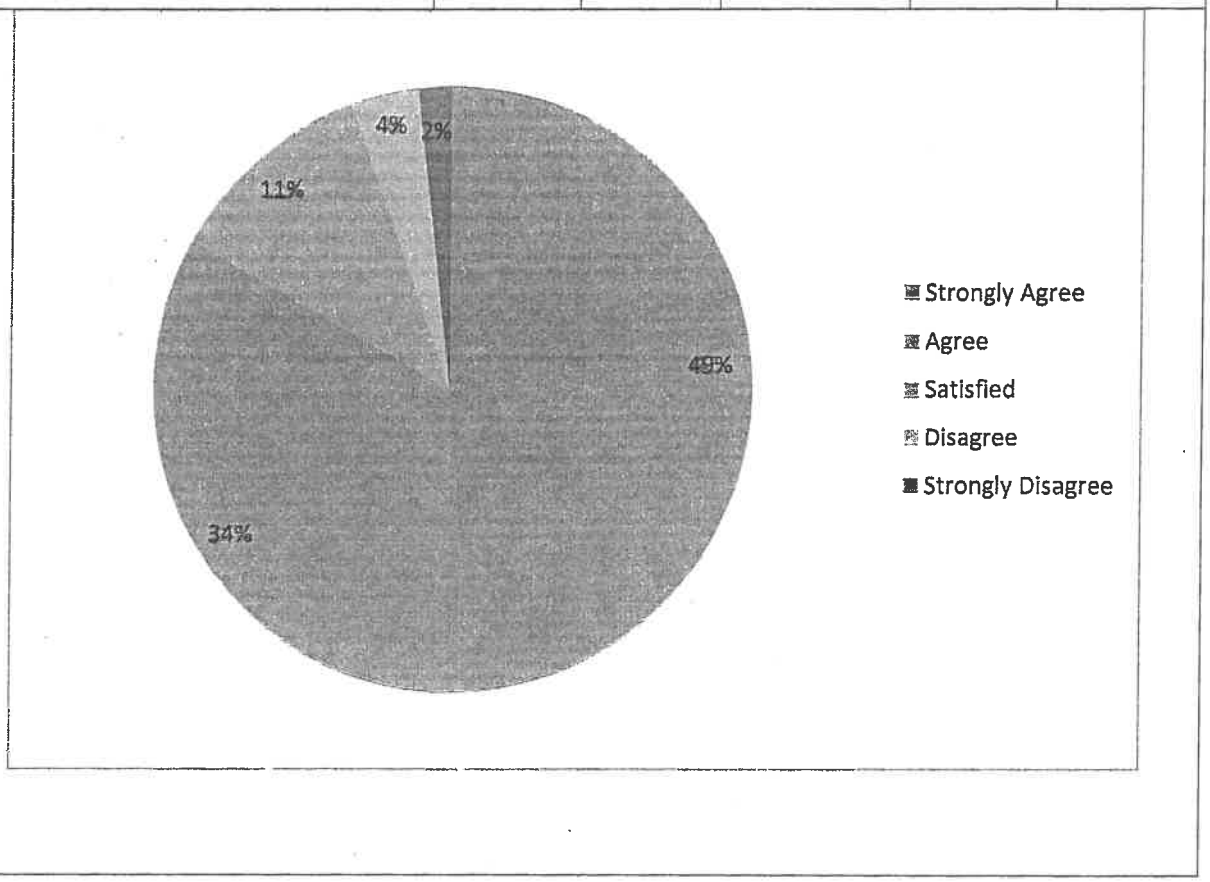


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Q.5. Does the curriculum focus on employability/career orientation?

Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.63636	34.54545	11.36364	3.636364	1.818182

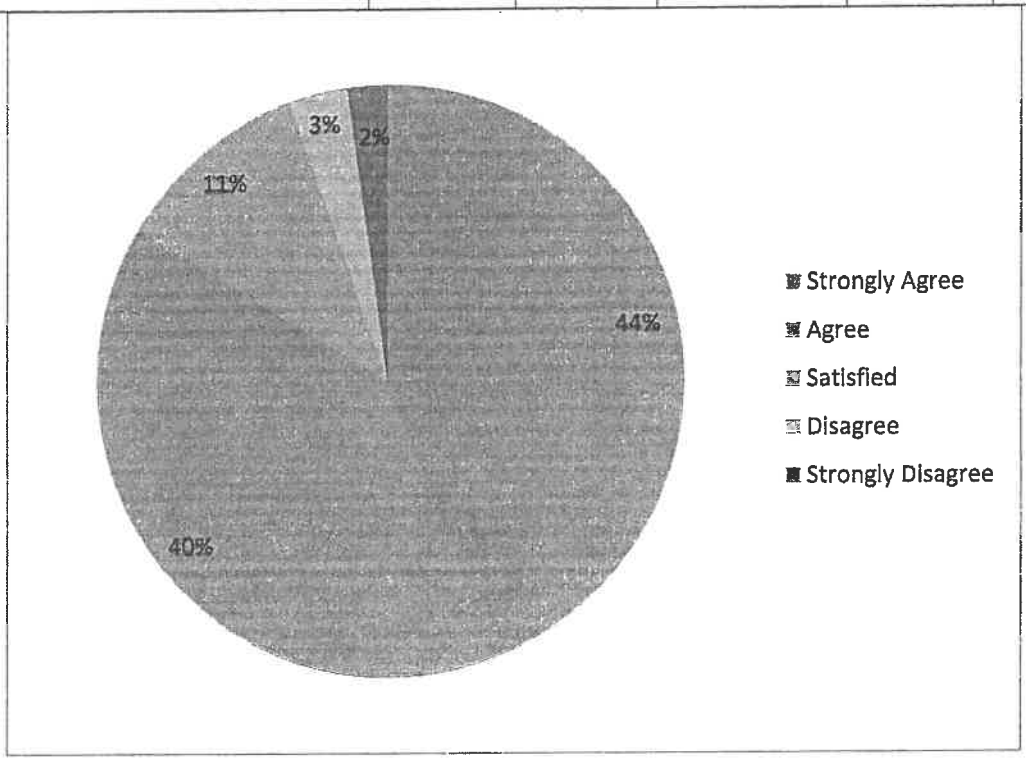


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Q.6. Does the curriculum focus on skill development/entrepreneurship?

Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	44.09091	39.54545	10.90909	3.181818	2.272727

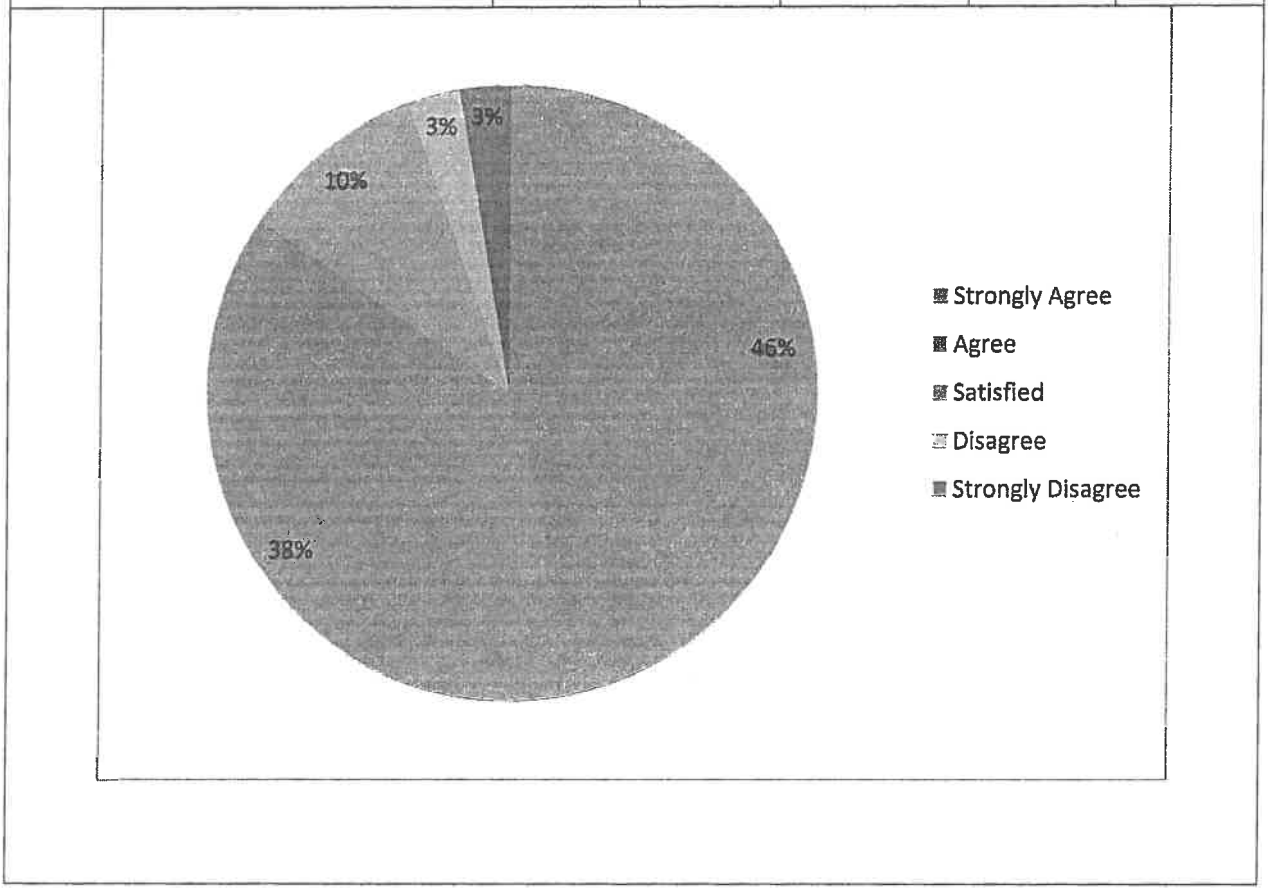


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Q.7. Does the curriculum have satisfactory number of elective courses?

Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.90909	38.63636	10	2.727273	2.727273

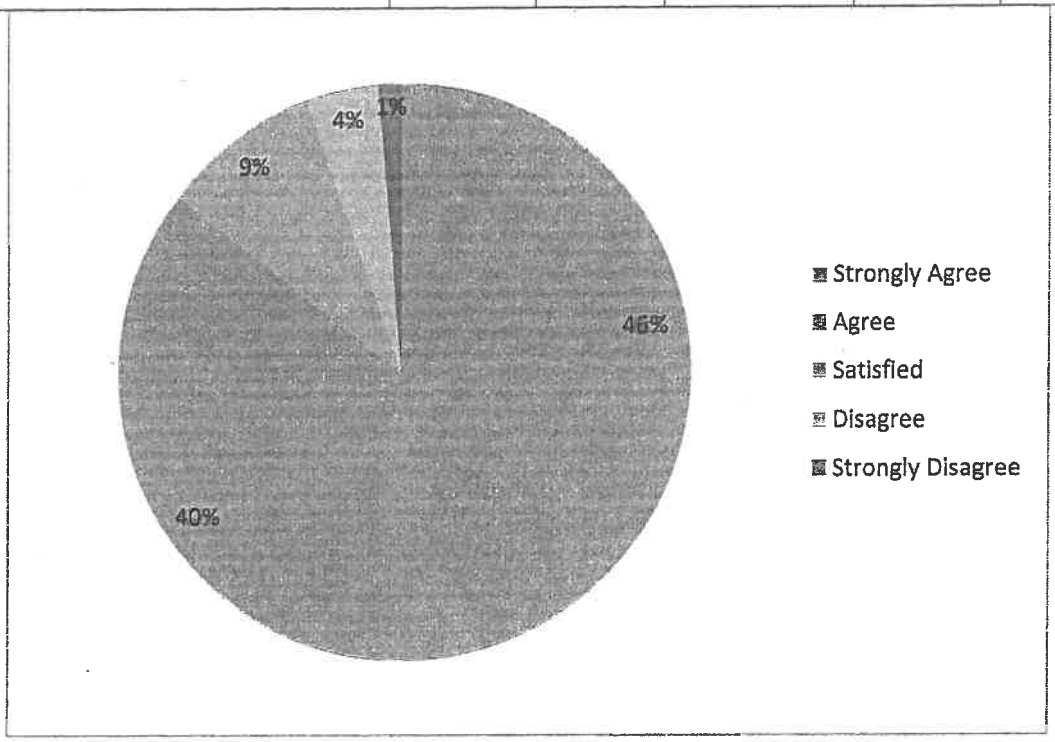


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Q.8. Does the curriculum focus on life skill or help in value addition?

Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45455	40	9.090909	4.090909	1.363636

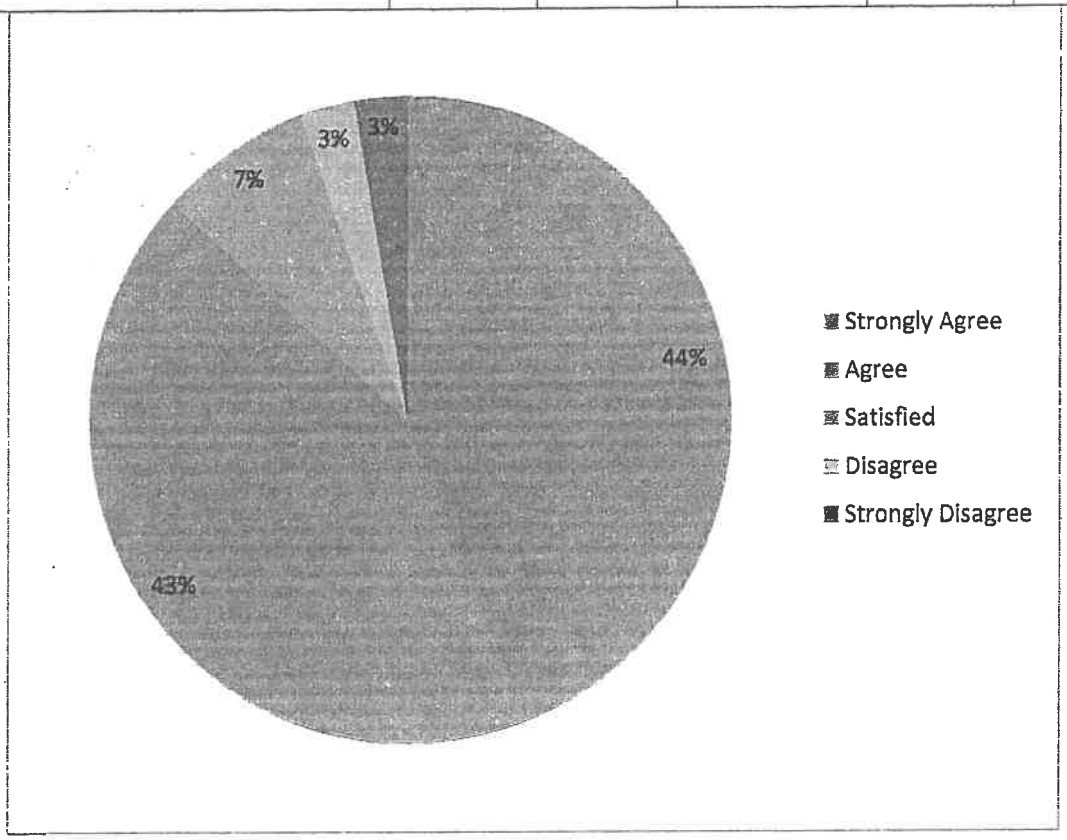


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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

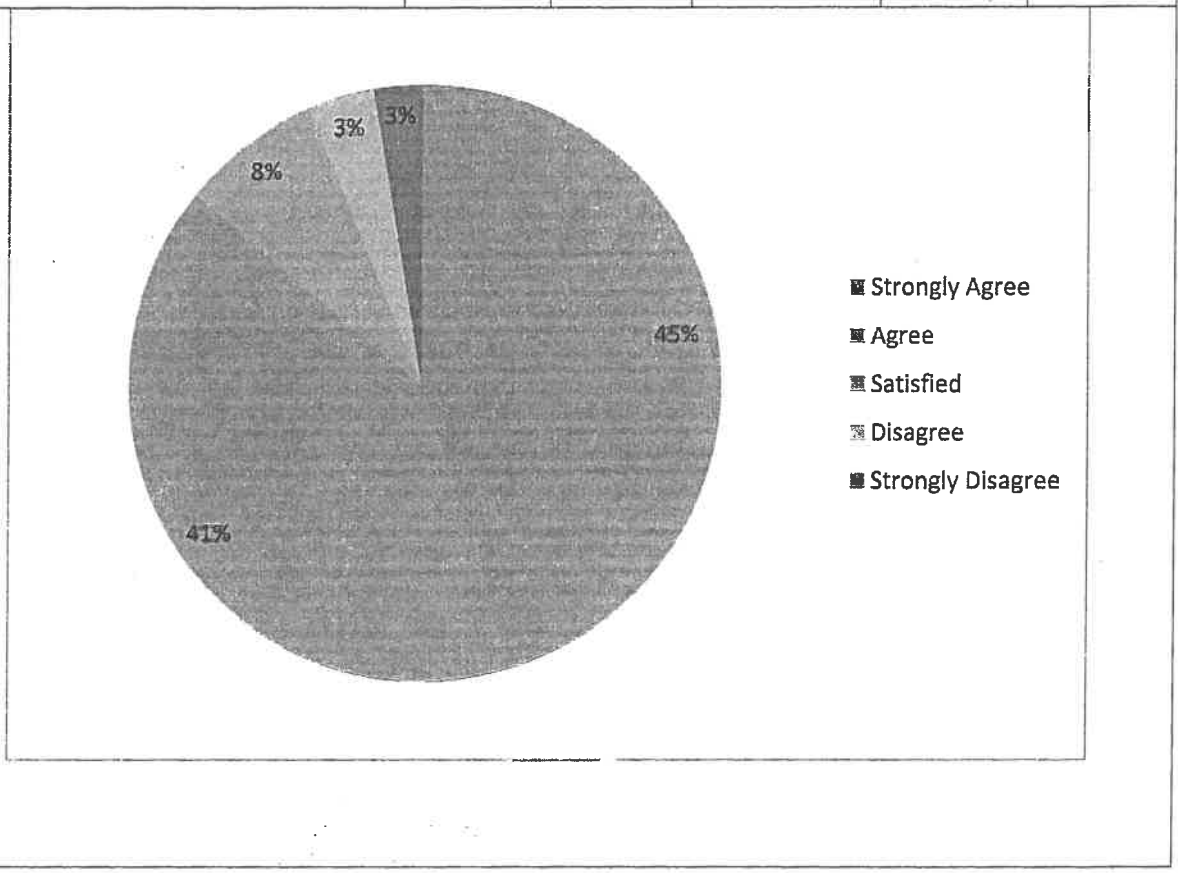
Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	44.09091	42.72727	7.727273	2.727273	2.727273



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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45	40.90909	7.727273	3.636364	2.727273



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School of Agriculture & Environment Sciences (220)						
Question	**Details**	**Strongly Agree**	**Agree**	**Satisfactory**	**Disagree**	**Strongly Disagree**
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	102	82	24	7	5
	Percentage	46.36363636	37.27272727	10.90909091	3.181818182	2.272727
How do you rate the course outcomes and relevance to the course content?	No of Students	122	72	14	6	6
	Percentage	55.45454545	32.72727273	6.363636364	2.727272727	2.7272
How do you rate the sequence of units in the courses?	No of Students	117	68	23	5	7
	Percentage	53.18181818	30.90909091	10.45454545	2.272727273	3.1818
How do you rate the credits allotted to individual courses?	No of Students	118	78	12	9	3
	Percentage	53.63636364	35.45454545	5.454545455	4.090909091	1
Does the curriculum focus on employability/career orientation?	No of Students	107	76	25	8	4
	Percentage	48.63636364	34.54545455	11.36363636	3.636363636	2
Does the curriculum focus on skill development/entrepreneurship?	No of Students	97	87	24	7	5
	Percentage	44.09090909	39.54545455	10.90909091	3.181818182	2
Does the curriculum have satisfactory number of elective courses?	No of Students	101	85	22	6	6
	Percentage	45.90909091	38.63636364	10	2.727272727	3
Does the curriculum focus on life skill or help in value addition?	No of Students	100	88	20	9	3
	Percentage	45.45454545	40	9.090909091	4.090909091	1
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	97	94	17	6	6
	Percentage	44.09090909	42.72727273	7.727272727	2.727272727	3
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	99	90	17	8	6
	Percentage	45	40.90909091	7.727272727	3.636363636	3

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Analysis of Feedback:

Based on the feedback collected from students at the School of Agriculture & Environment Sciences, the overall response to the curriculum is generally positive, with notable areas of strong agreement across several aspects. 46.36% of students strongly agree that the curriculum has depth and clarity in its subjects, while 55.45% feel that the course outcomes are well aligned with the content. Additionally, 53.18% of students find the sequence of units in the courses satisfactory, and 53.64% believe the credits allotted to individual courses are appropriate.

In terms of career readiness, 48.64% of students feel that the curriculum focuses on employability, while 44.09% believe it adequately supports skill development and entrepreneurship. 45.91% of students are satisfied with the number of elective courses offered, and 45.45% feel that the curriculum contributes to life skills and value addition. Furthermore, 44.09% of students find that theory subjects are properly linked to practical labs, providing real-life exposure, and 45% appreciate the multidisciplinary knowledge embedded in the curriculum.

Overall, the feedback reflects a generally positive response to the curriculum's structure and content. There is, however, room for improvement in certain areas such as expanding elective courses and further enhancing the focus on practical applications and career orientation.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

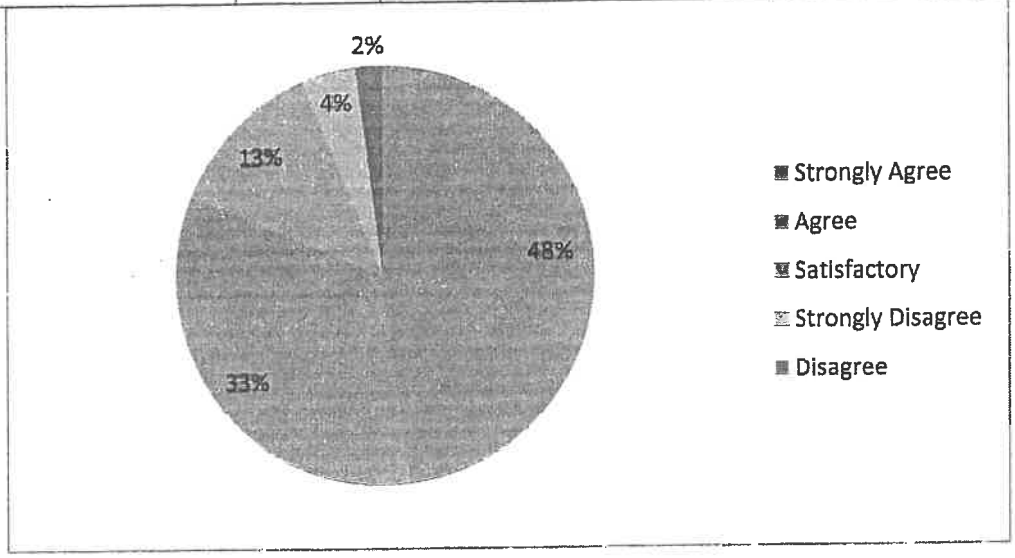
Sr. No.	Suggestions	Action Taken	Outcome
1	Improve the depth and clarity of certain subjects.	Revise and enhance the curriculum by providing more in-depth explanations and examples.	Increased student understanding and clarity in core subjects.
2	Align course outcomes more closely with course content.	Ensure that course objectives are directly linked to content through detailed syllabi and assessments.	Clearer learning outcomes, better alignment between theory and practice.
3	Expand the number of elective courses offered.	Introduce additional electives to cover a wider range of student interests.	Greater flexibility in course selection and more personalized learning experiences.
4	Strengthen the focus on practical application and career readiness.	Increase the number of internships, workshops, and real-life projects integrated into the curriculum.	Enhanced employability and practical exposure for students.

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Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The courses based on state of art trends and recent developments?

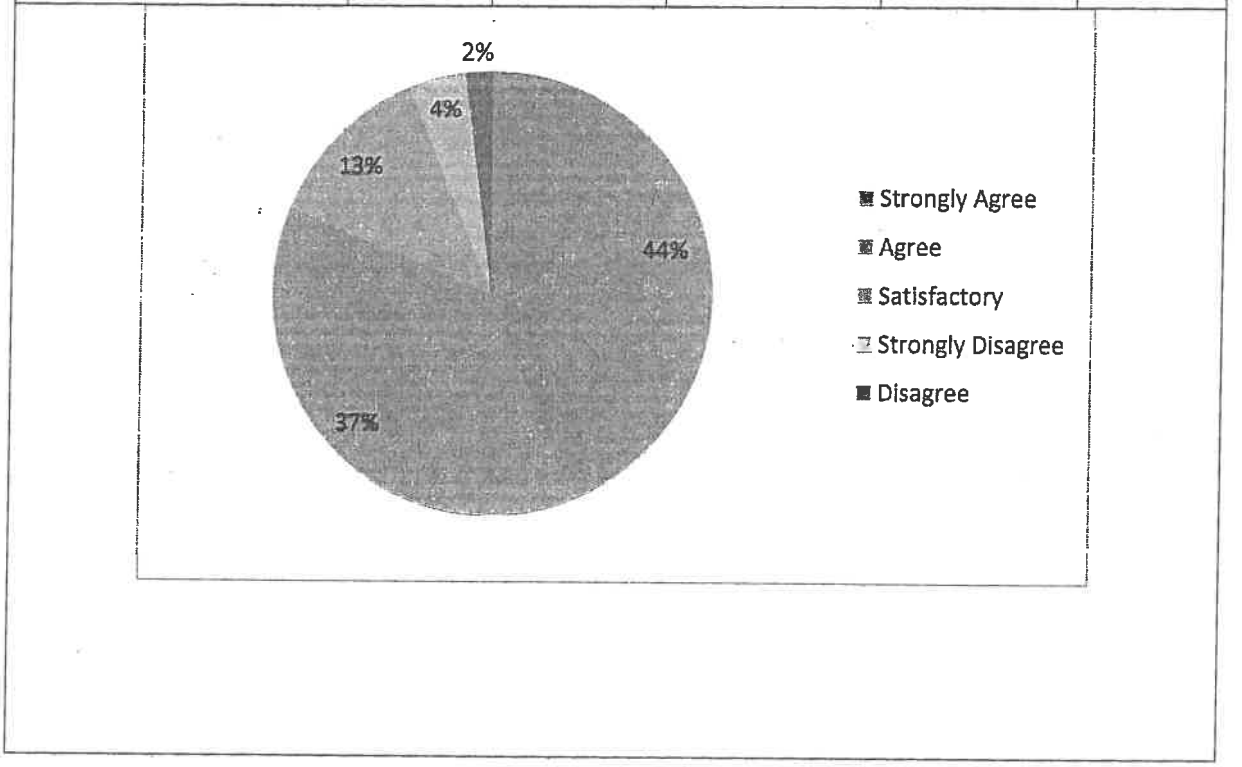
The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	47.92	33.33	12.50	4.17	2.08



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Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

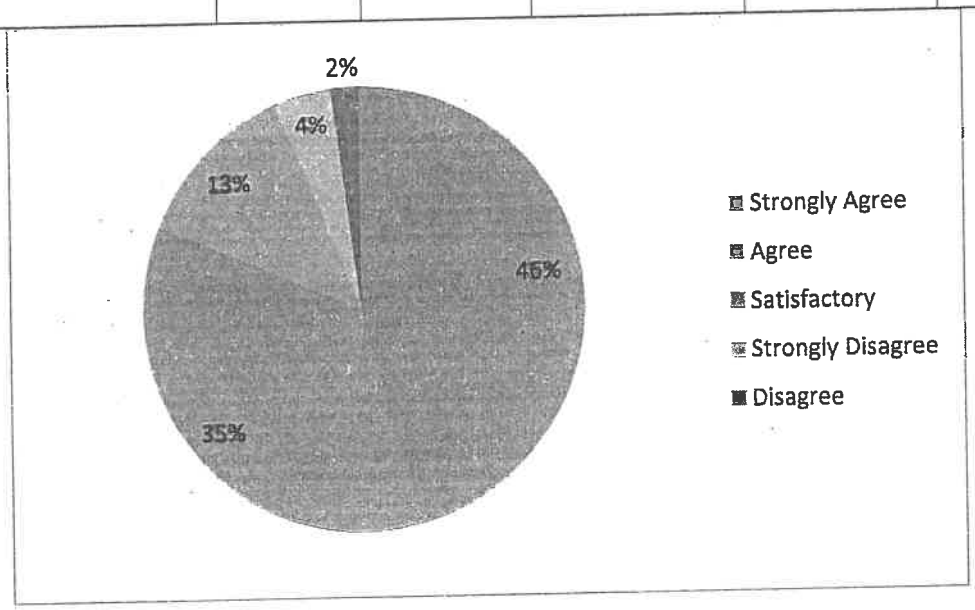
The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	37.50	12.50	4.17	2.08



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Q.3 The courses found to be productive in competing professionally at national/international level?

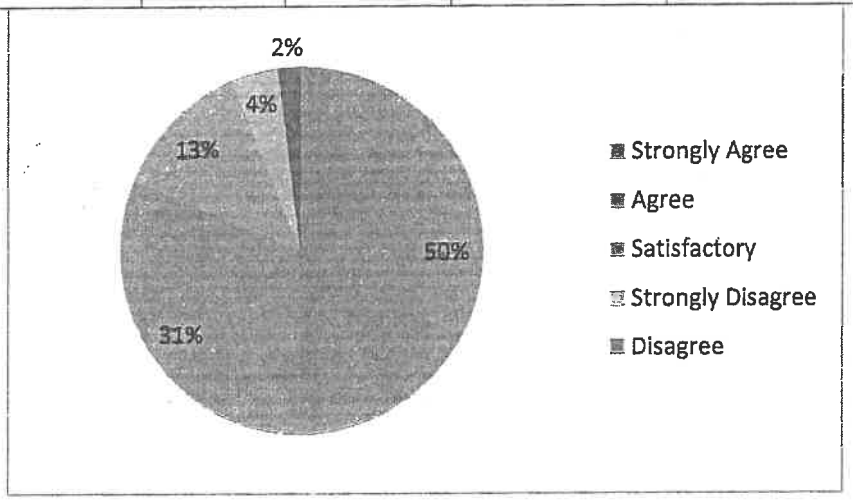
The courses found to be productive in competing professionally at national/international level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	45.83	35.42	12.50	4.17	2.08



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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

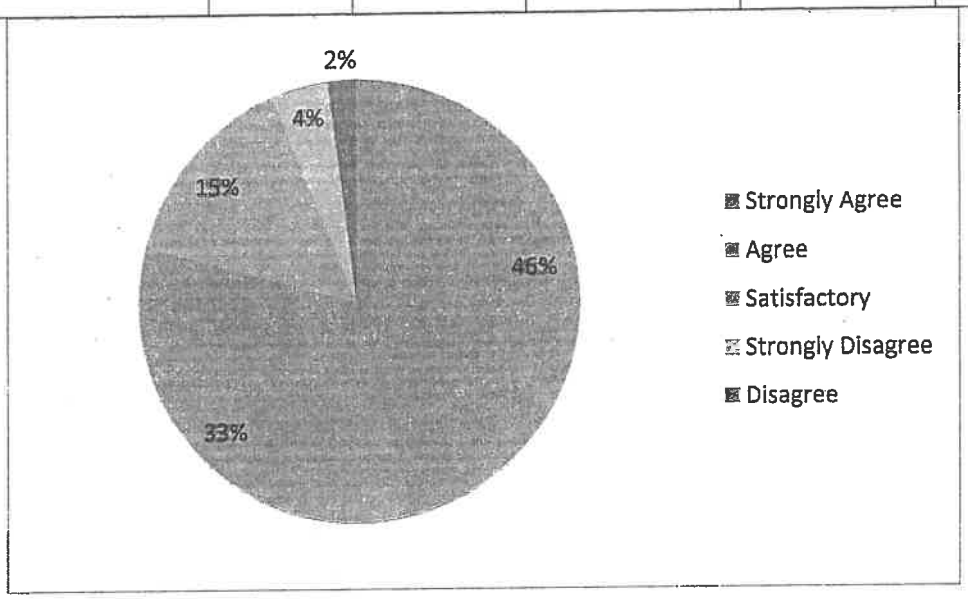
The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	31.25	12.50	4.17	2.08



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Q.5 The programmer helped to understand the impact of domain knowledge in social and global context?

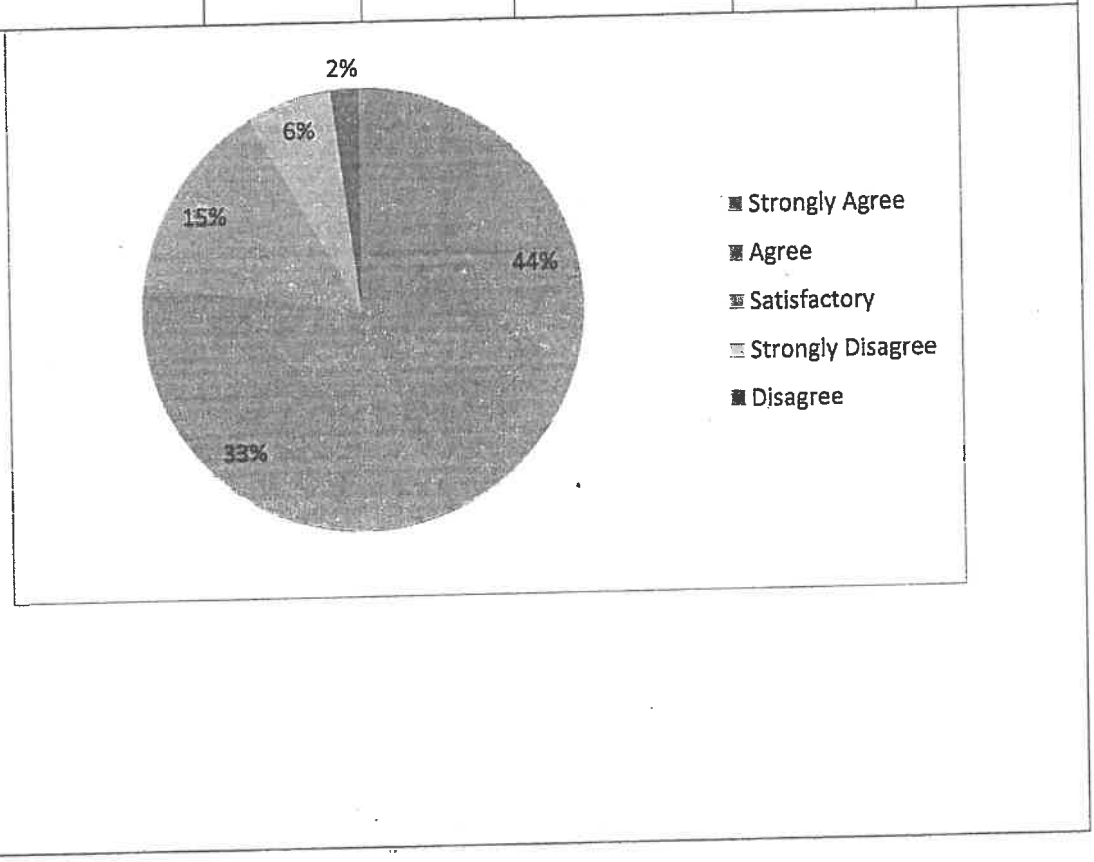
The programmer helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	45.83	33.33	14.58	4.17	2.08



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Q.6 Theprogramme provided awareness on recent advancements and innovations?

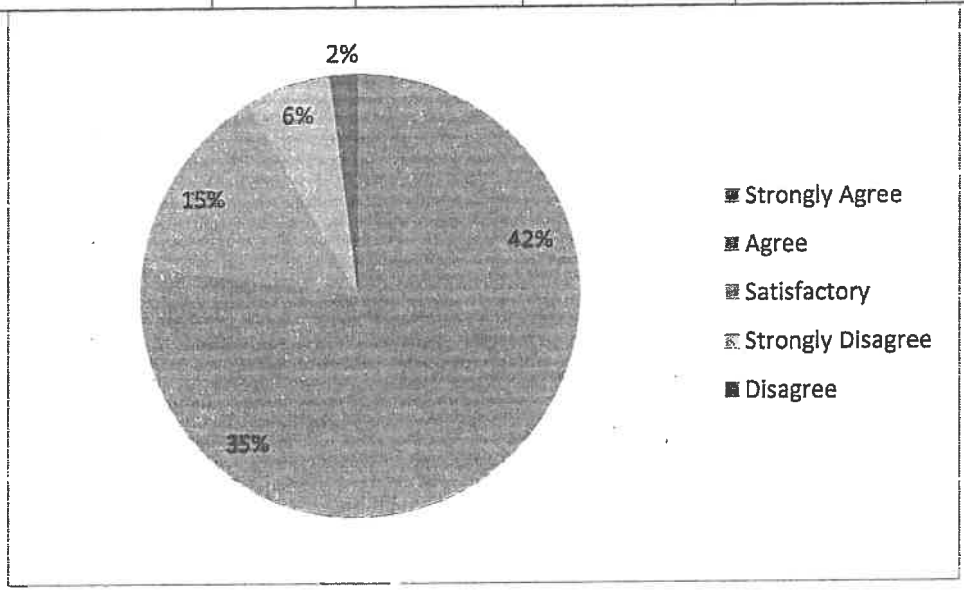
The programme provided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	33.33	14.58	6.25	2.08



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Q.7 Theprogramme improved critical thinking ability and problem-solving aptitude.

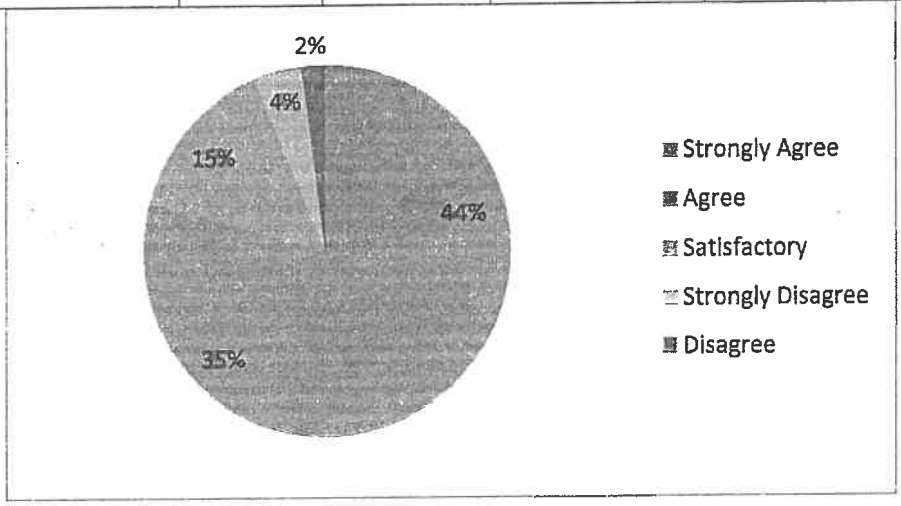
The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.67	35.42	14.58	6.25	2.08



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Q.8 The programme helped to take independent decisions and perform managerial & administerial functions diligently?

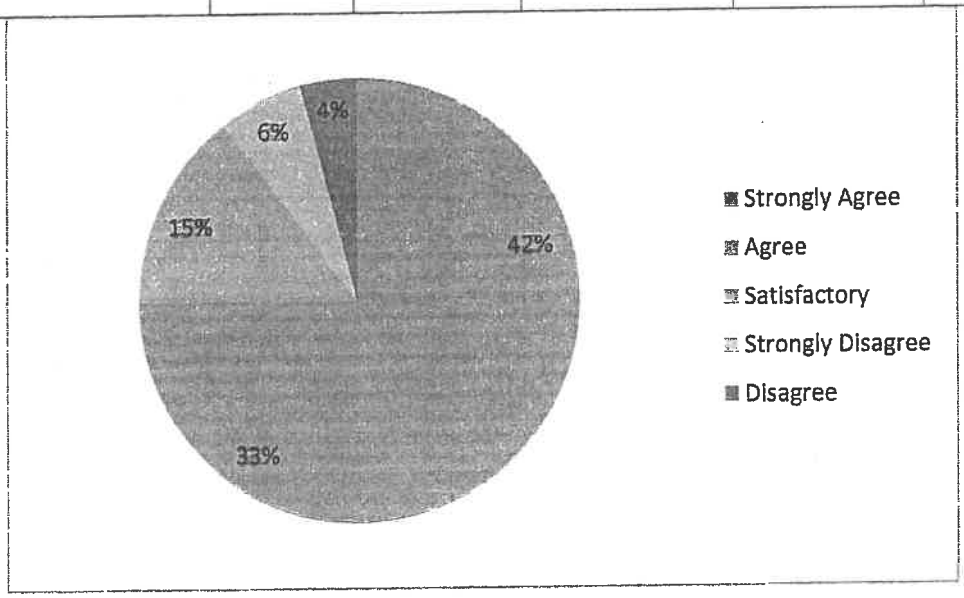
The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	35.42	14.58	4.17	2.08



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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.67	33.33	14.58	6.25	4.17



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	School of Agriculture and Environmental Science (48)						
Sr.No.	Questions		Strongly Agree	Agree	Satisfactory	Strongly Disagree	Disagree
1	The courses based on state of art trends and recent developments?	No of Alumni	23	16	6	2	1
		Percentage	47.92	33.33	12.50	4.17	2.08
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	21	18	6	2	1
		Percentage	43.75	37.50	12.50	4.17	2.08
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	22	17	6	2	1
		Percentage	45.83	35.42	12.50	4.17	2.08
4	The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?	No of Alumni	24	15	6	2	1
		Percentage	50.00	31.25	12.50	4.17	2.08
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	22	16	7	2	1
		Percentage	45.83	33.33	14.58	4.17	2.08
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	21	16	7	3	1
		Percentage	43.75	33.33	14.58	6.25	2.08
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	20	17	7	3	1
		Percentage	41.67	35.42	14.58	6.25	2.08
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	21	17	7	2	1
		Percentage	43.75	35.42	14.58	4.17	2.08
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	20	16	7	3	2
		Percentage	41.67	33.33	14.58	6.25	4.17

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Analysis of the Feedback

The alumni feedback on the curriculum highlights both strengths and areas for improvement. On the positive side, 93.75% of alumni found the program highly effective in developing skills and knowledge within their respective domains, motivating students towards nation-building by instilling ethical and professional values, raising awareness of recent advancements and innovations, and enhancing critical thinking, problem-solving, and managerial abilities. These areas were consistently rated highly, reflecting the program's success in preparing students for professional and ethical challenges. However, there were notable concerns regarding the curriculum's alignment with contemporary trends and its ability to prepare students for national and international competition, with only 45% of alumni feeling that the courses were based on state-of-the-art trends or helped them understand the global and social impact of their domain knowledge. Additionally, the low rating of 45% for the program's impact on research and higher studies preparation suggests that the curriculum may require further development to support advanced academic pursuits. Overall, while the curriculum excels in foundational and ethical education, it appears to fall short in areas related to modern industry trends, global competitiveness, and research preparation.

Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Align curriculum with contemporary trends and industry developments	Collaborated with industry experts to revise the curriculum, introducing new courses on sustainable farming, agri-tech, and climate-resilient agriculture.	Curriculum now better reflects modern industry trends and innovations, particularly in sustainability and technology.
2	Prepare students for national and international competition	Organized workshops on competitive exam preparation, increased participation in national and international agricultural competitions.	Improved student engagement in external competitions and enhanced their readiness for global professional challenges.
3	Increase focus on research preparation and advanced academic pursuits	Introduced a structured research pathway, mentorship for student research projects, and workshops	Increased student participation in research projects and a higher

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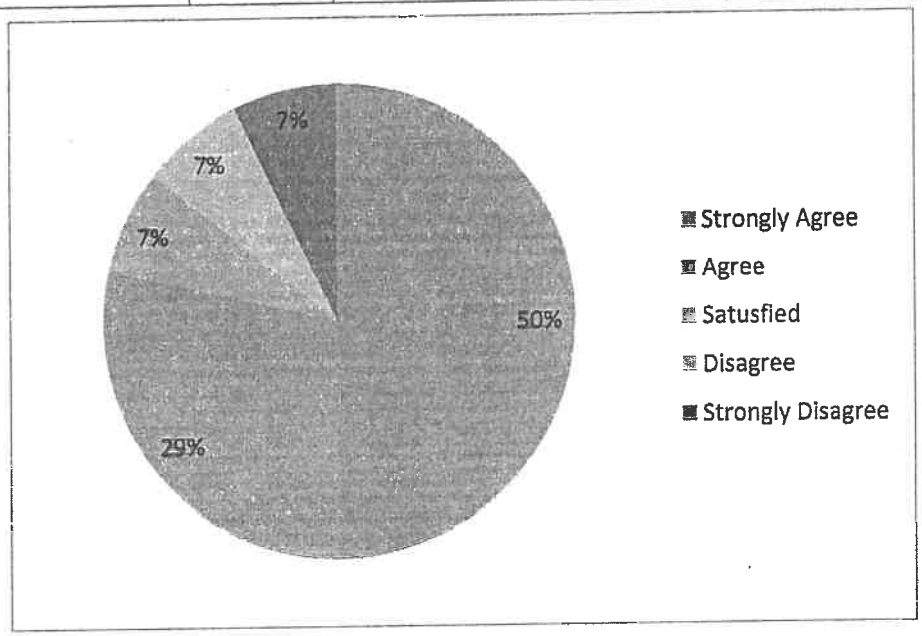
		on academic writing and publishing.	number of students pursuing higher studies.
4	Enhance understanding of the social and global impact of domain knowledge	Integrated global case studies, environmental policy analysis, and community development projects into coursework.	Broadened students' understanding of the global and societal relevance of agricultural practices and sustainability.

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Analysis of Employer's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q Q.1 curriculum assists the students to acquire necessary entry level skills in industrial sector.

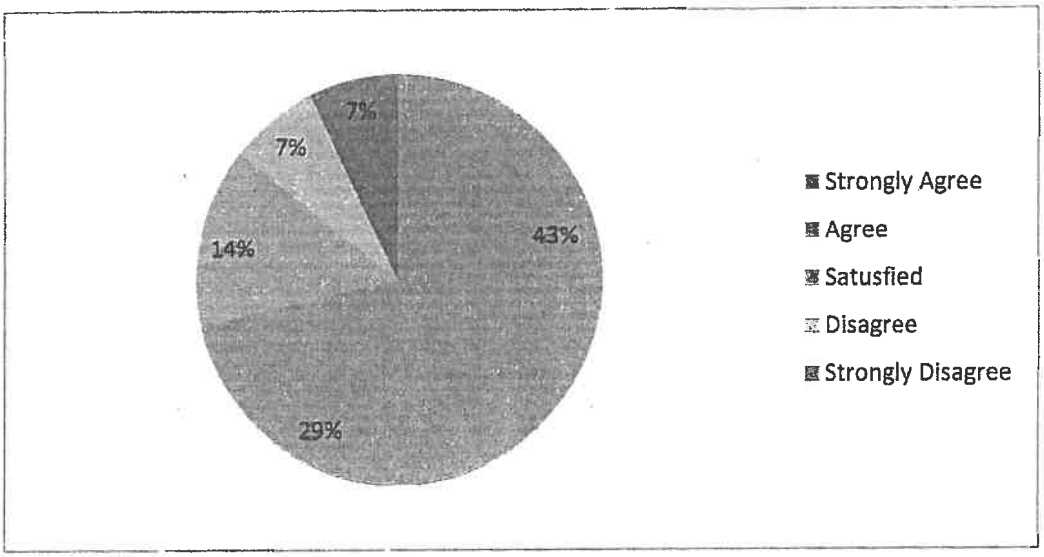
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.0	28.6	7.1	7.1	7.1



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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

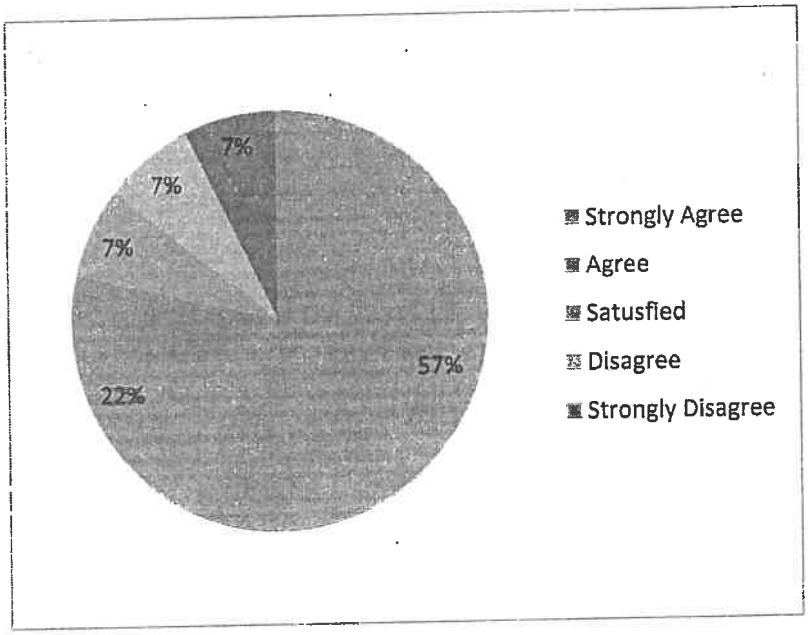
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	42.86	28.57	14.29	7.14	7.14



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

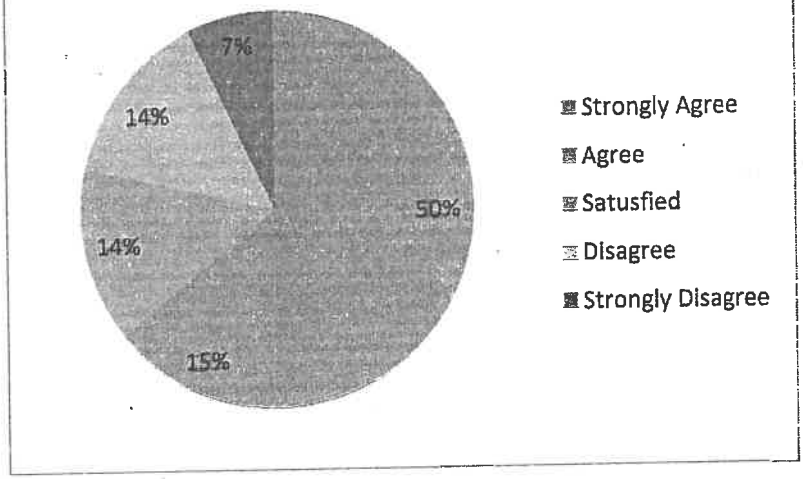
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.14	21.43	7.14	7.14	7.14



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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

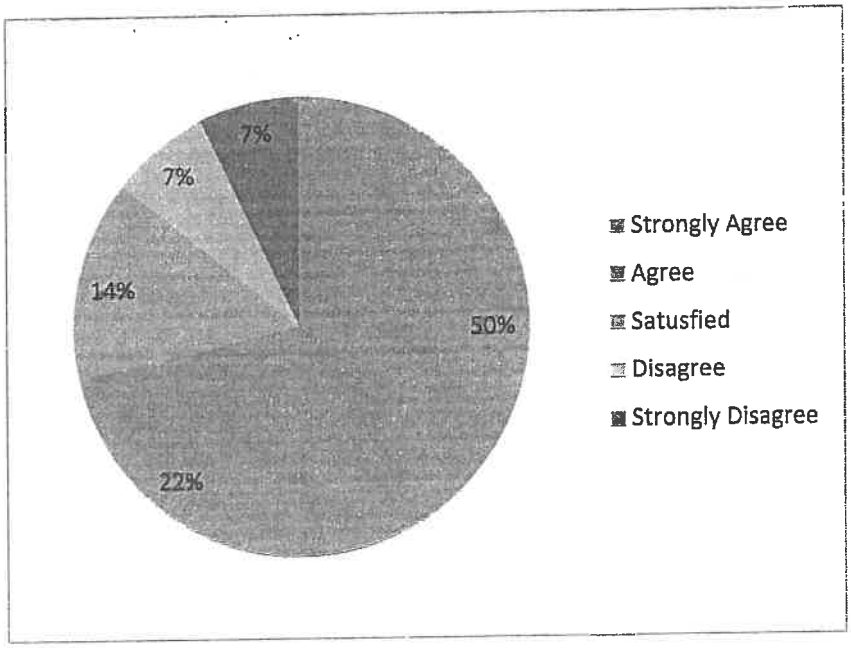
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	14.29	14.29	14.29	7.14



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

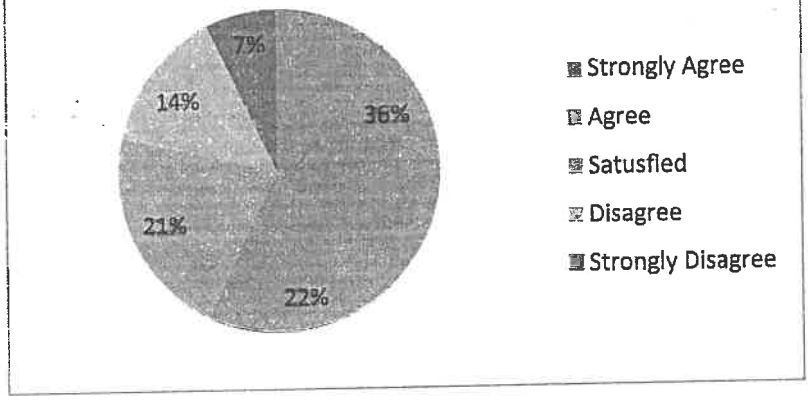
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	21.43	14.29	7.14	7.14



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

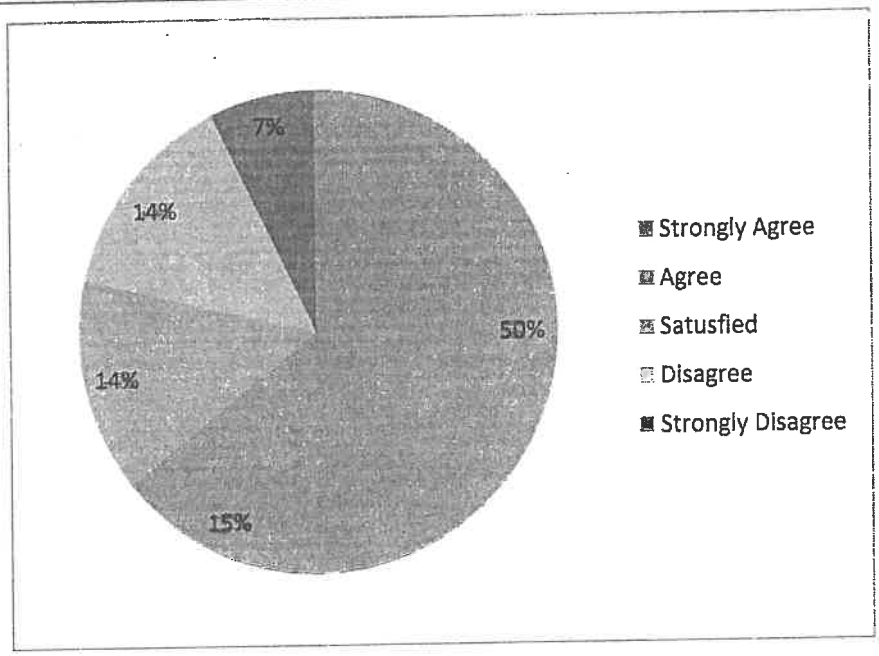
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.71	21.43	21.43	14.29	7.14



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics.

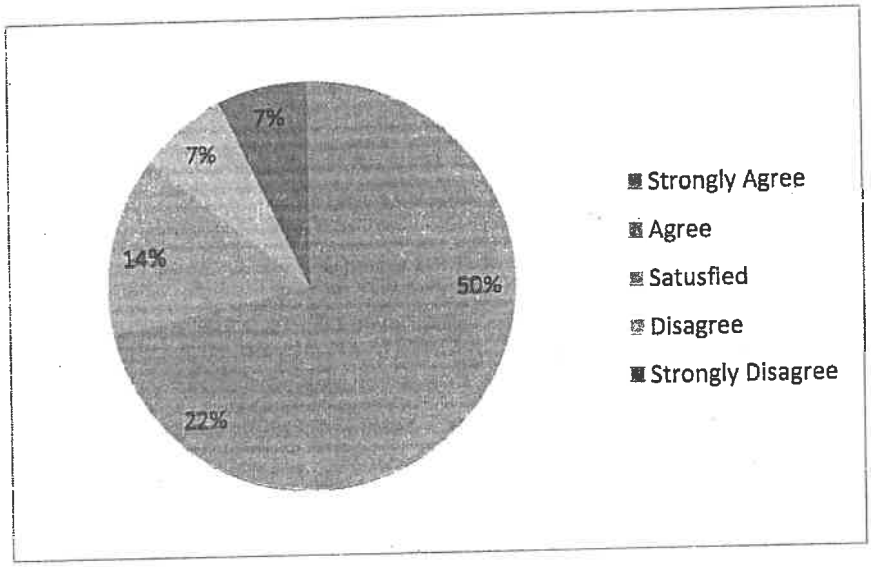
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	14.29	14.29	14.29	7.14



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

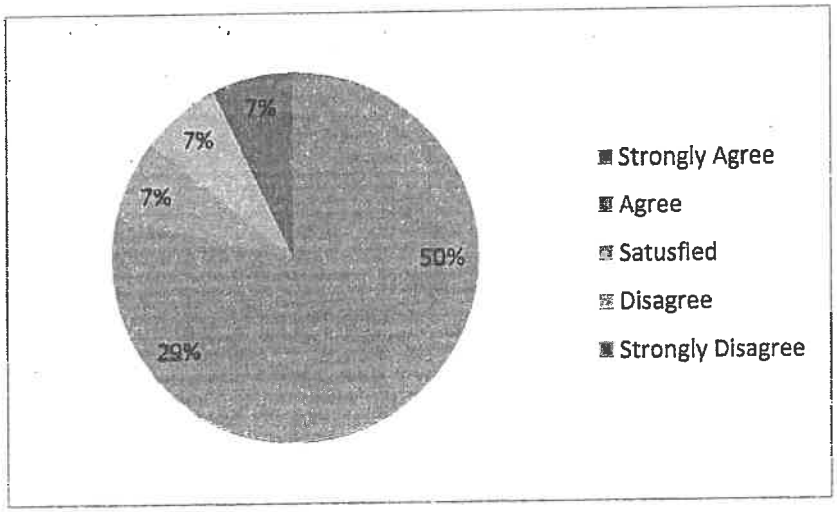
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.0	21.4	14.3	7.1	7.1



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for student's holistic development	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.0	28.6	7.1	7.1	7.1



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School of Agriculture and Environmental Sciences (14)

Total no. of Employer: 14		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Academicians	7	4	1	1	1
	Percentage	50.00	28.57	7.14	7.14	7.14
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Academicians	6	4	2	1	1
	Percentage	42.86	28.57	14.29	7.14	7.14
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Academicians	8	3	1	1	1
	Percentage	57.14	21.43	7.14	7.14	7.14
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	No. of Academicians	7	2	2	2	1
	Percentage	50.00	14.29	14.29	14.29	7.14
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	7	3	2	1	1
	Percentage	50.00	21.43	14.29	7.14	7.14
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	5	3	3	2	1
	Percentage	35.71	21.43	21.43	14.29	7.14
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	7	2	2	2	1
	Percentage	50.00	14.29	14.29	14.29	7.14

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The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	7	3	2	1	1
	Percentage	50.00	21.43	14.29	7.14	7.14
The courses have adequate balance between theory and application for student's holistic development	No. of Academicians	7	4	1	1	1
	Percentage	50.00	28.57	7.14	7.14	7.14

Analysis of Feedback:

Based on the employers' feedback, the curriculum has been positively received, particularly in areas supporting industrial readiness and technological aptitude. A high percentage of employers (ranging from **85.71% to 85.72%**) agree that the curriculum effectively equips students with entry-level skills for the industrial sector, promotes life-long learning, includes adequate multidisciplinary and elective options, and ensures a balanced structure between theory and application. Additionally, the curriculum is seen as fostering entrepreneurial skills and industry readiness. However, slightly lower percentages (around **78.57% to 78.58%**) were observed regarding the curriculum's role in promoting independent/team work adaptability, employability for higher education, and personality development through human values and ethics. This indicates room for enhancement in soft skills and holistic student development, even though the overall feedback reflects a strong and relevant curriculum for industry and academic progression

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Action Taken Report

(School of Agriculture and Environmental Sciences)

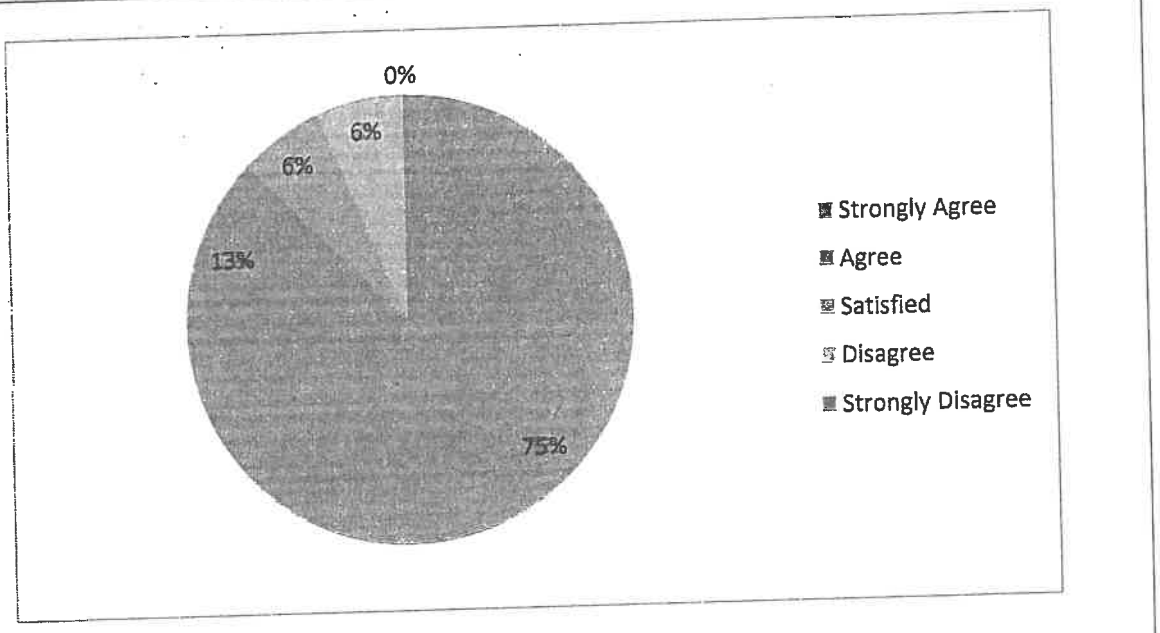
Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance soft skills development, including teamwork and adaptability	Introduced workshops and group projects focused on communication, leadership, and conflict resolution	Improved collaboration among students; better performance in team-based assignments
2	Strengthen integration of human values and ethics in agricultural education	Added a dedicated module on "Ethics in Sustainable Agriculture" and included real-world case studies	Increased student awareness of ethical practices and social responsibility in agri-business
3	Improve career counseling and higher education preparedness	Launched regular career guidance sessions and postgraduate preparation boot camps	Higher student confidence in academic planning and improved success in entrance exams
4	Boost exposure to emerging agricultural technologies and environmental tools	Collaborated with research institutes to conduct hands-on training on GIS, remote sensing, and smart farming	Enhanced technical skills and practical readiness for modern agricultural challenges

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Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

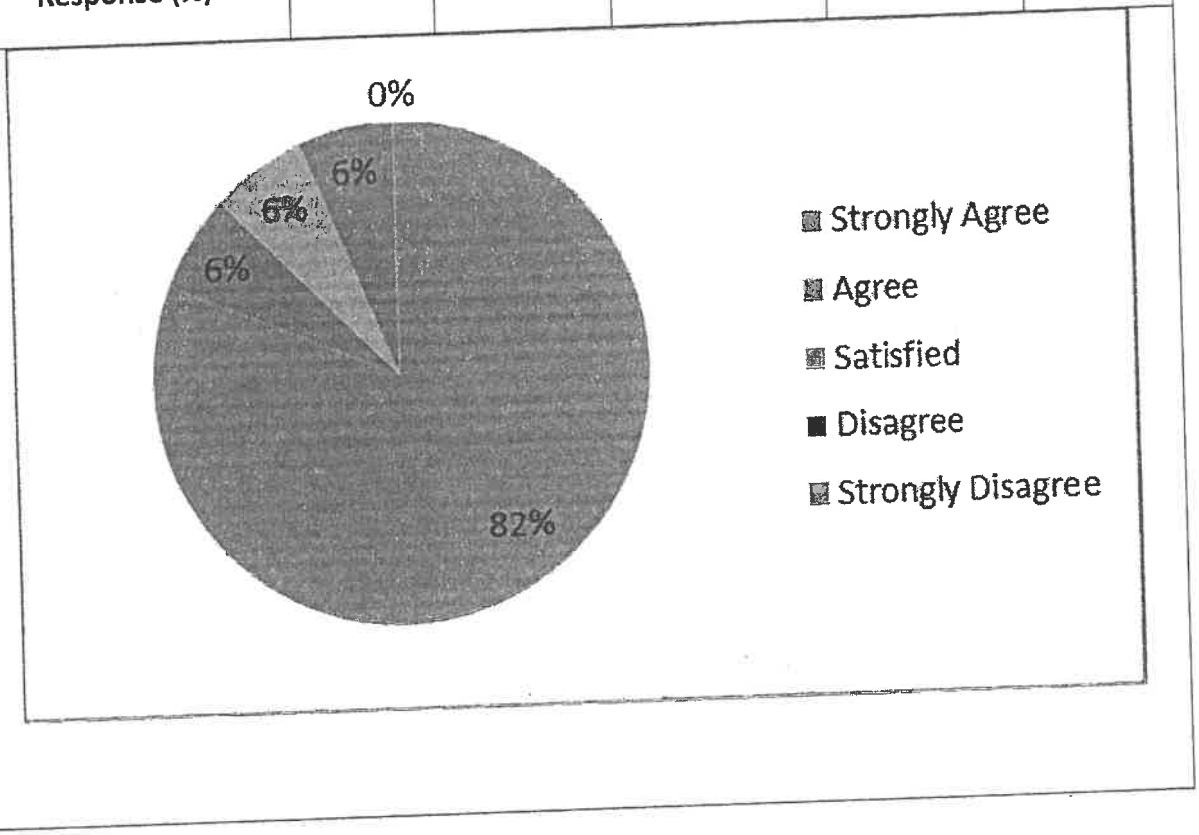
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	75.00	12.50	6.25	6.25	0.00



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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

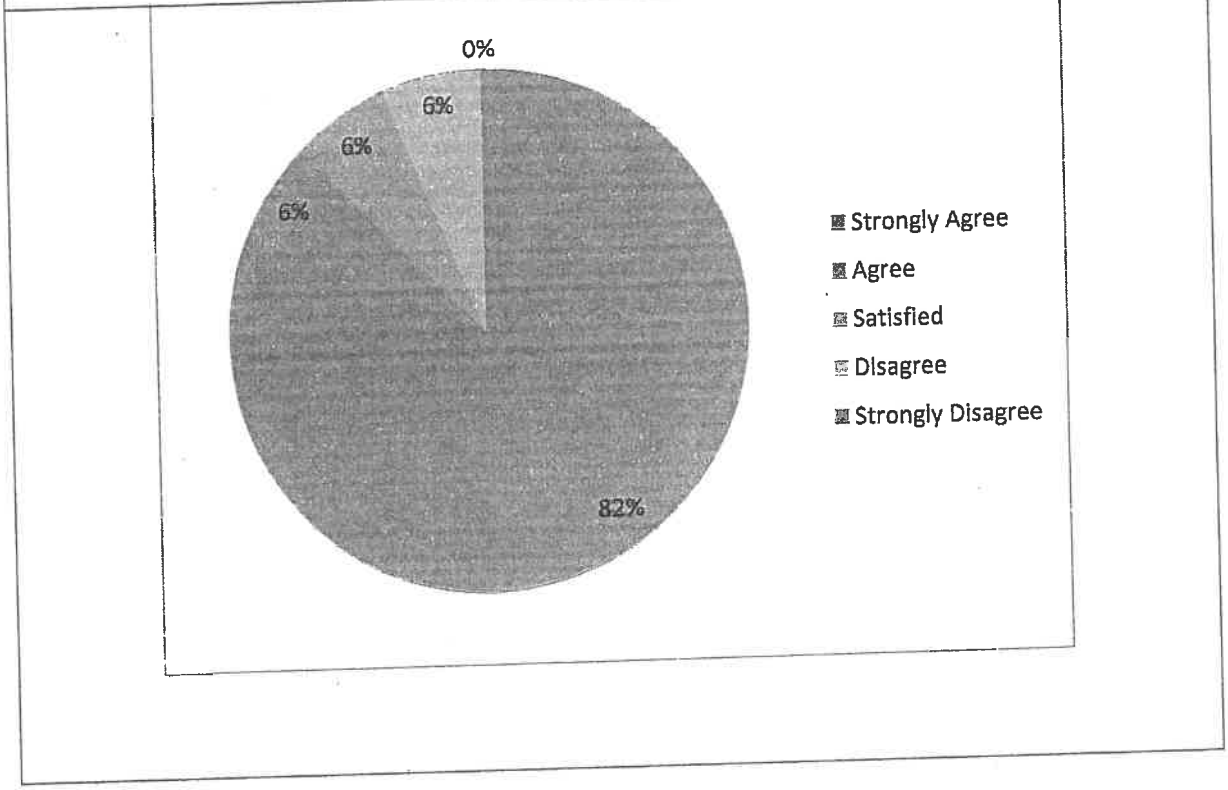
The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	81.25	6.25	6.25	6.25	0.00



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

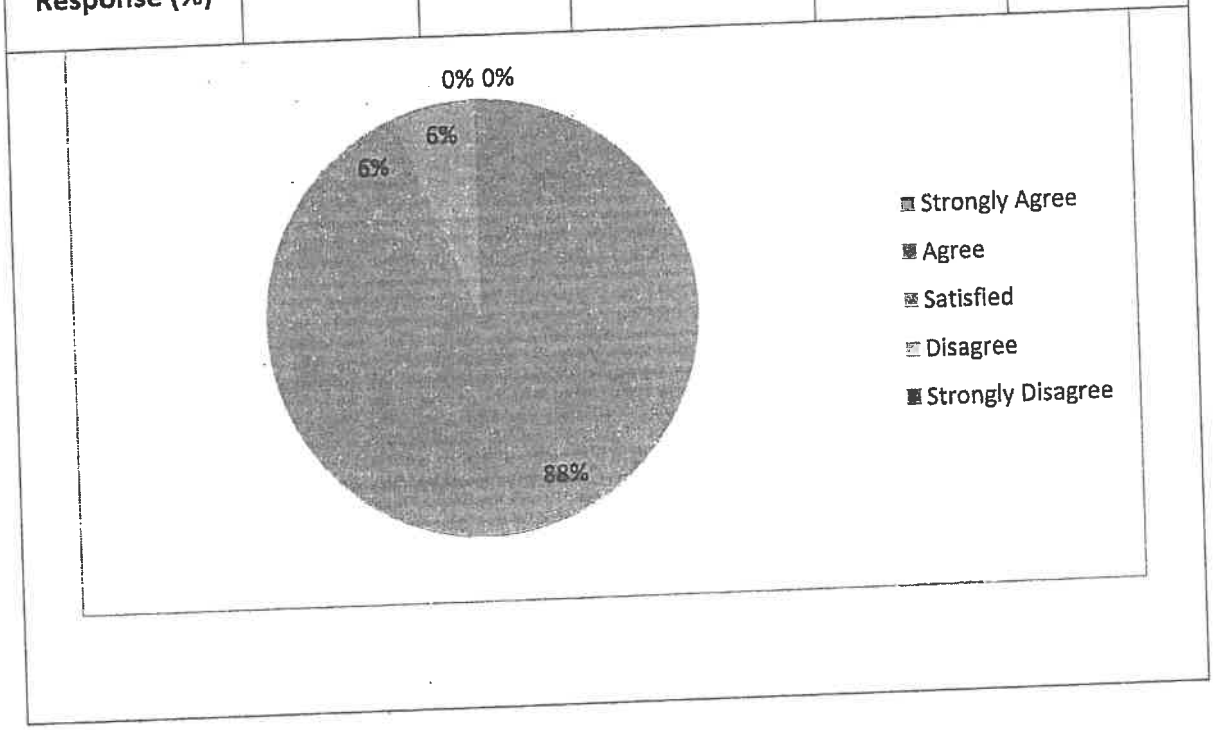
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	81.25	6.25	6.25	6.25	0.00



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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

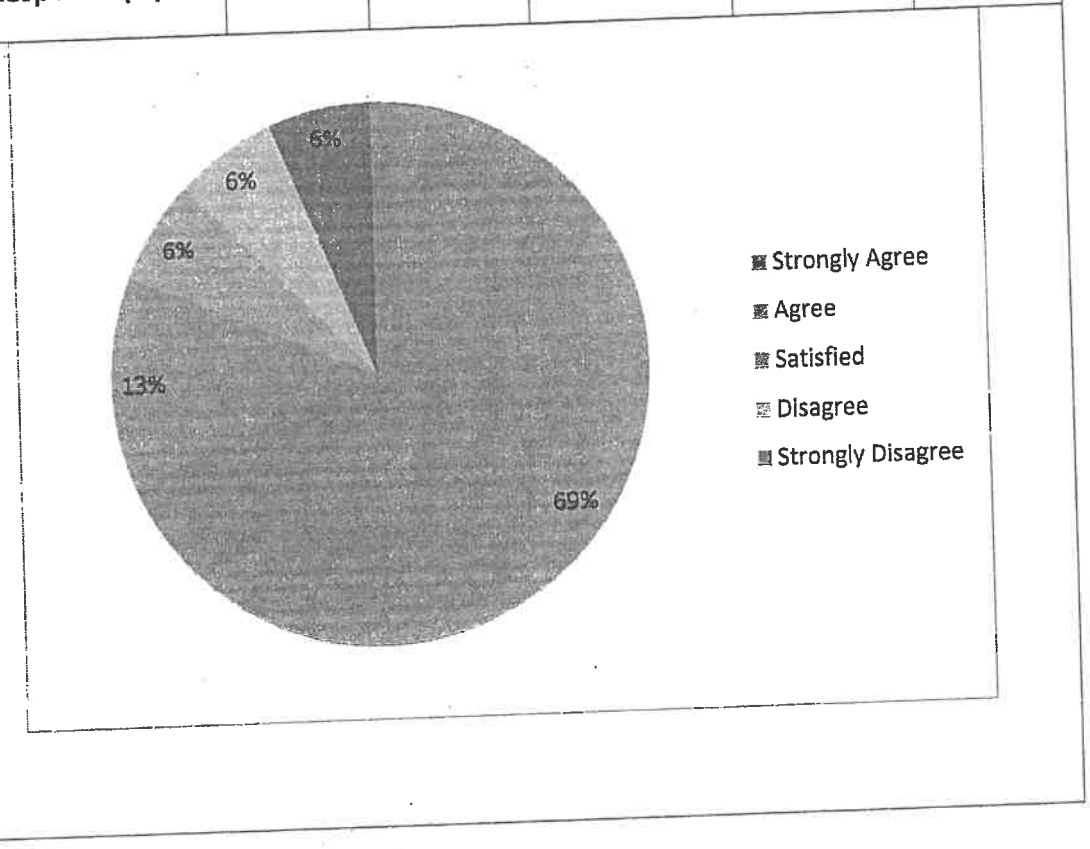
Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	87.50	6.25	6.25	0.00	0.00



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

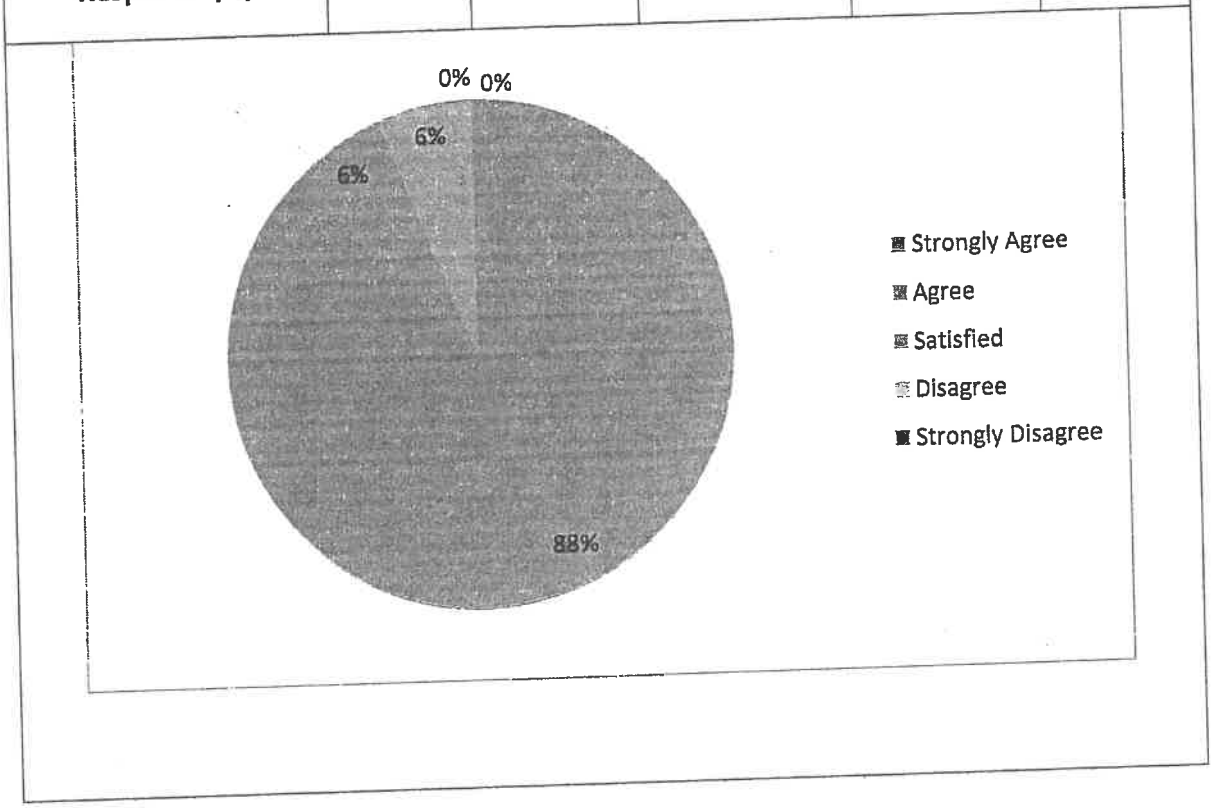
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	68.70	12.50	6.25	6.25	6.25



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

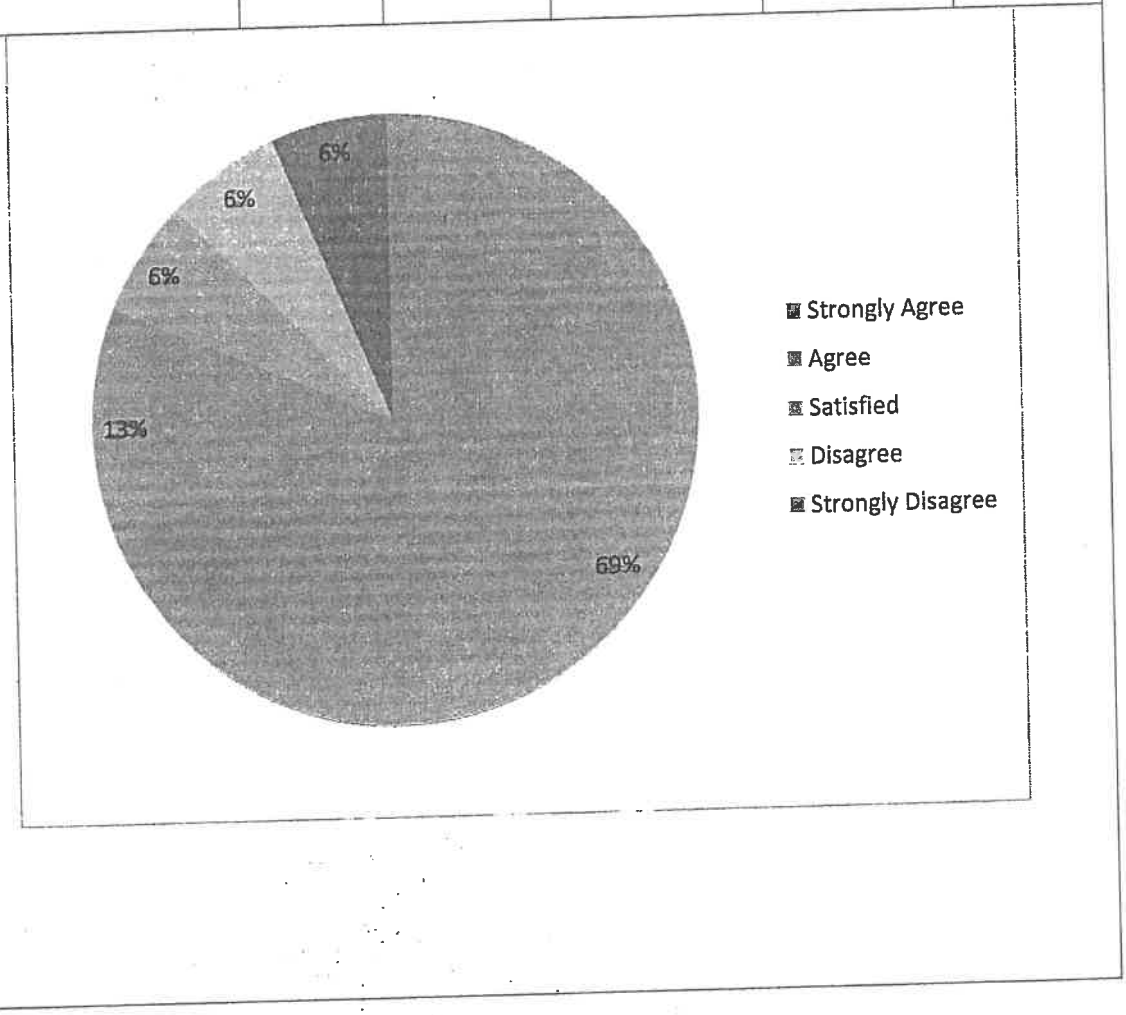
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	87.50	6.25	6.25	0.00	0.00



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

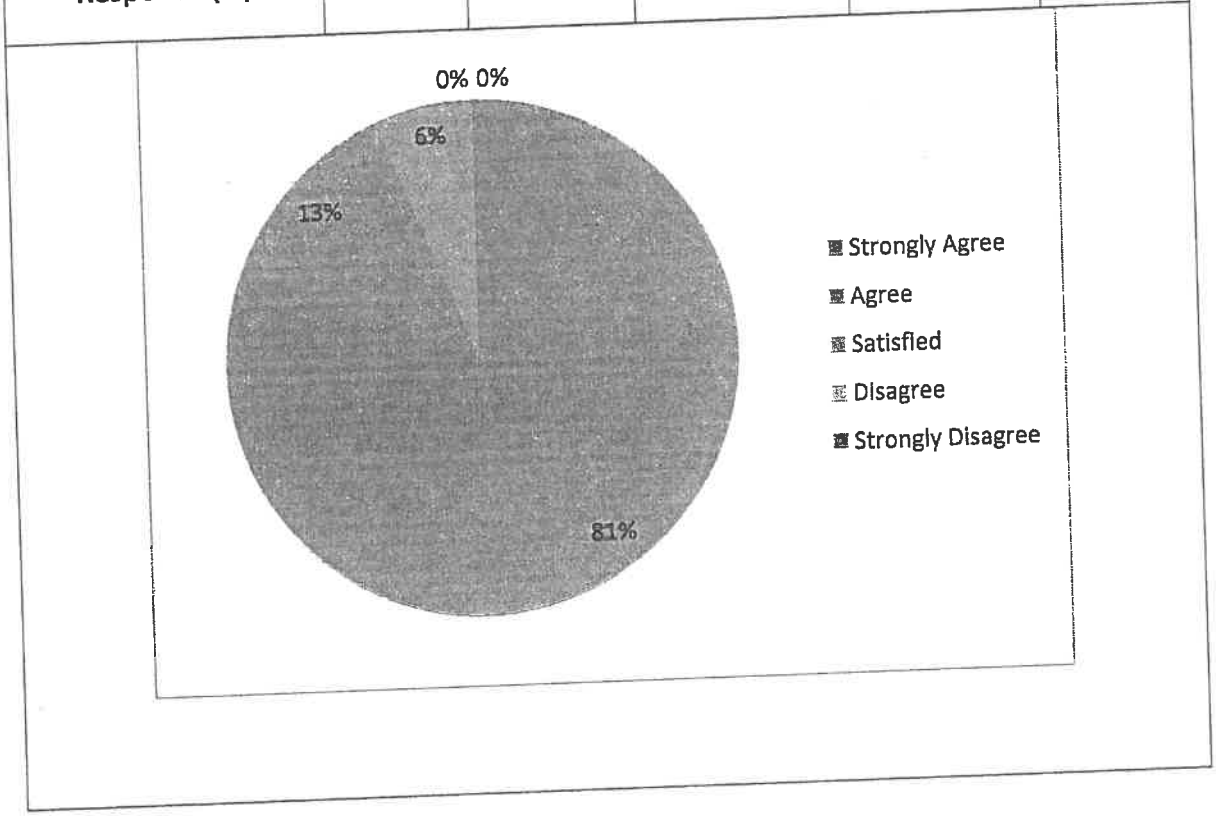
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	68.75	12.50	6.25	6.25	6.25



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

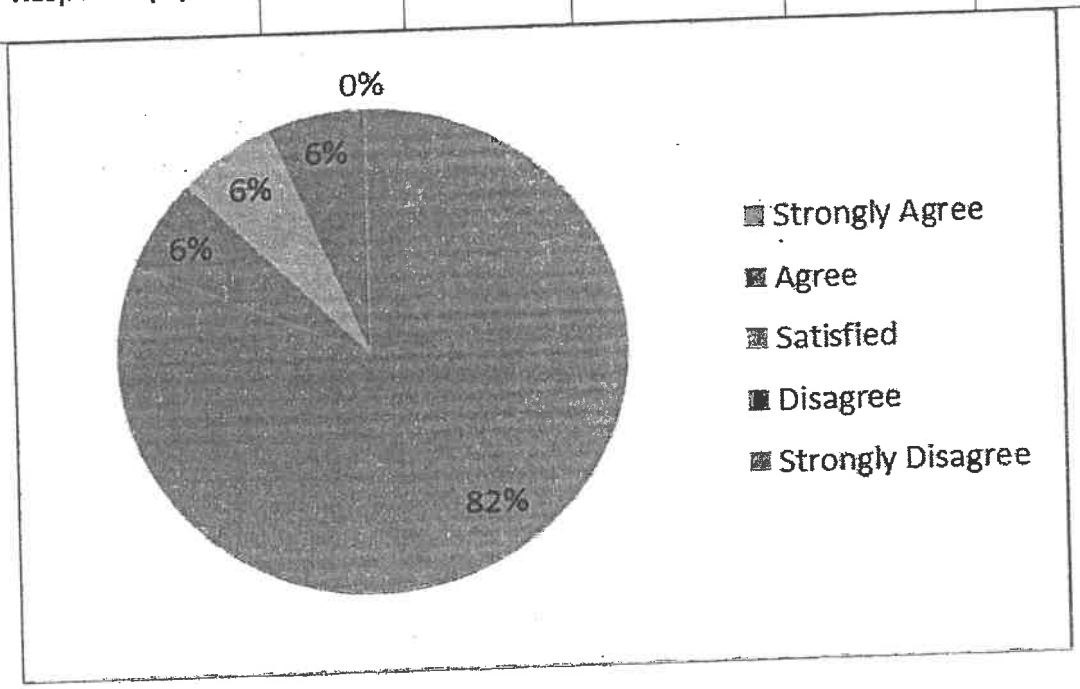
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	81.25	12.50	6.25	0.00	0.00



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	81.25	6.25	6.25	6.25	0.00



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School of Agriculture and Environmental Science(16)						
Total no. of Peer Academicians: 16		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	12.00	2.00	1.00	1.00	0.00
	Percentage	75.00	12.50	6.25	6.25	0.00
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	13.00	1.00	1.00	1.00	0.00
	Percentage	81.25	6.25	6.25	6.25	0.00
The curriculum has adequate scope for multidlsciplinary knowledge and sufficient number of elective courses	No. of Academicians	13.00	1.00	1.00	1.00	0.00
	Percentage	81.25	6.25	6.25	6.25	0.00
Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	14.00	1.00	1.00	0.00	0.00
	Percentage	87.50	6.25	6.25	0.00	0.00
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	11.00	2.00	1.00	1.00	1.00
	Percentage	68.70	12.50	6.25	6.25	6.25
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	14.00	1.00	1.00	0.00	0.00
	Percentage	87.50	6.25	6.25	0.00	0.00
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	11.00	2.00	1.00	1.00	1.00
	Percentage	68.75	12.50	6.25	6.25	6.25
The curriculum is well	No. of	13.00	2.00	1.00	0.00	0.00

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organized and balanced for the programme with proper credit allocation.	Academicians					
	Percentage	81.25	12.50	6.25	0.00	0.00
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	13.00	1.00	1.00	1.00	0.00
	Percentage	81.25	6.25	6.25	6.25	0.00

Analysis of Feedback:

Based on peer feedback, the curriculum has been positively received across multiple dimensions, with most parameters scoring above 90%, indicating strong alignment with program competencies and student development goals. The syllabus is considered appropriate and well-sequenced (93.75%), and the inclusion of multidisciplinary and elective courses is adequate (93.75%). Notably, self-learning opportunities and employability support are highly rated (100%), suggesting an emphasis on student autonomy and career readiness. Areas such as entrepreneurial skill development and courses focused on human values and ethics, though slightly lower (87.45% and 87.5% respectively), still reflect a strong but improvable focus. Overall, the curriculum is seen as well-organized, with a balanced distribution of credits and a robust mix of theoretical and practical content, promoting holistic student development.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

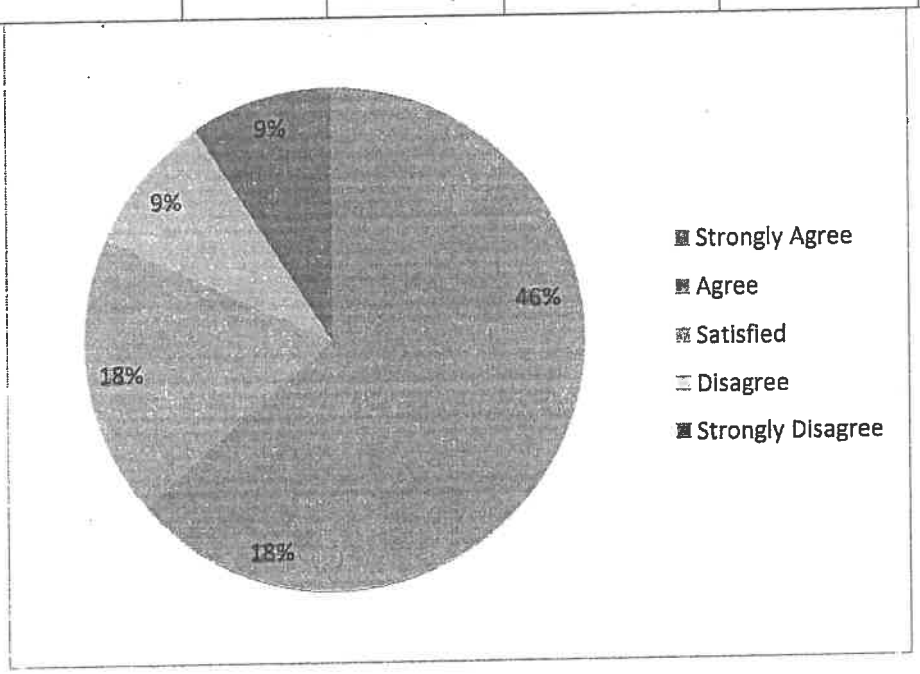
Sr. No.	Suggestions	Action taken	Outcome
1	Strengthen entrepreneurial skill development	Introduced specialized courses on agricultural entrepreneurship, sustainable farming practices, and agri-business management	Enhanced student knowledge on managing agriculture-based startups, leading to more innovative projects
2	Further integrate courses on human values and ethics	Added new modules on ethical farming, environmental sustainability, and corporate social responsibility in agriculture	Improved student understanding of ethics in agriculture, fostering responsible practices
3	Expand self-learning and practical field experiences	Organized more field visits to farms, agro-industrial units, and sustainability projects to complement theoretical knowledge	Increased hands-on learning opportunities, enriching students' real-world understanding of agriculture
4	Improve industry readiness and employability support	Strengthened partnerships with agricultural industries for internships and job placements; introduced career development workshops	Higher employability rates and better preparedness for industry roles in agriculture and environmental sciences

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Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

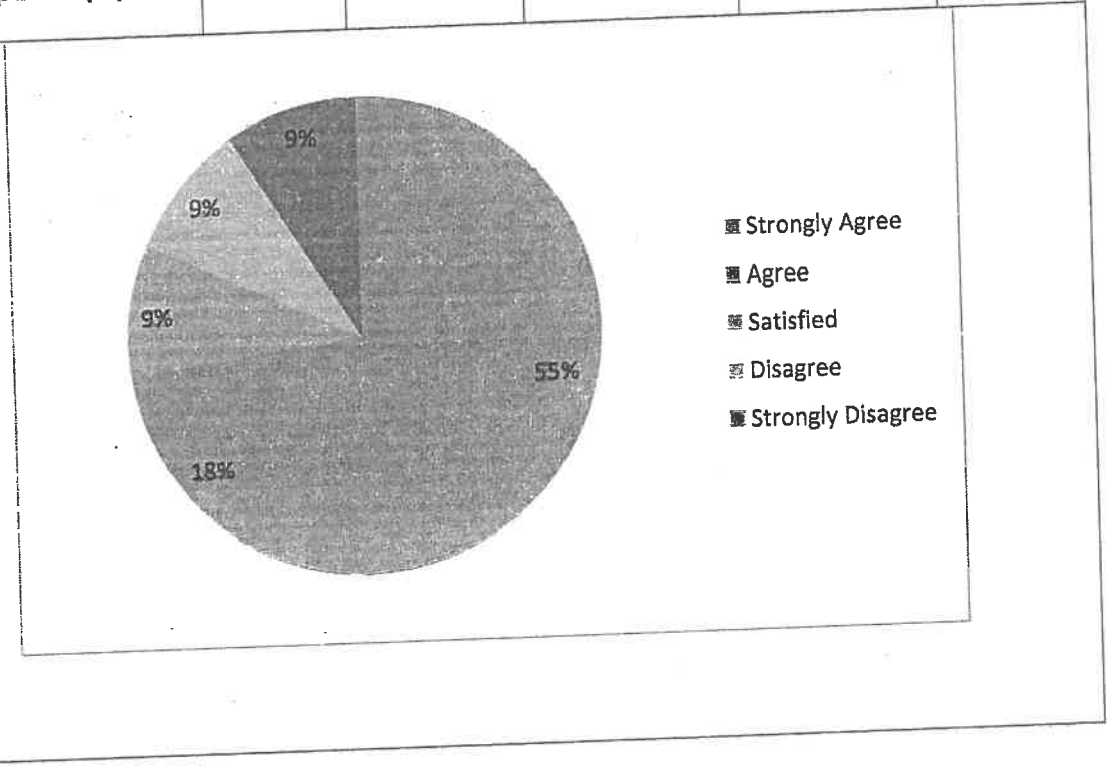
The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	18.18	18.18	9.09	9.09



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Q.2 The courses have adequate balance between theory and application for student's holistic development.

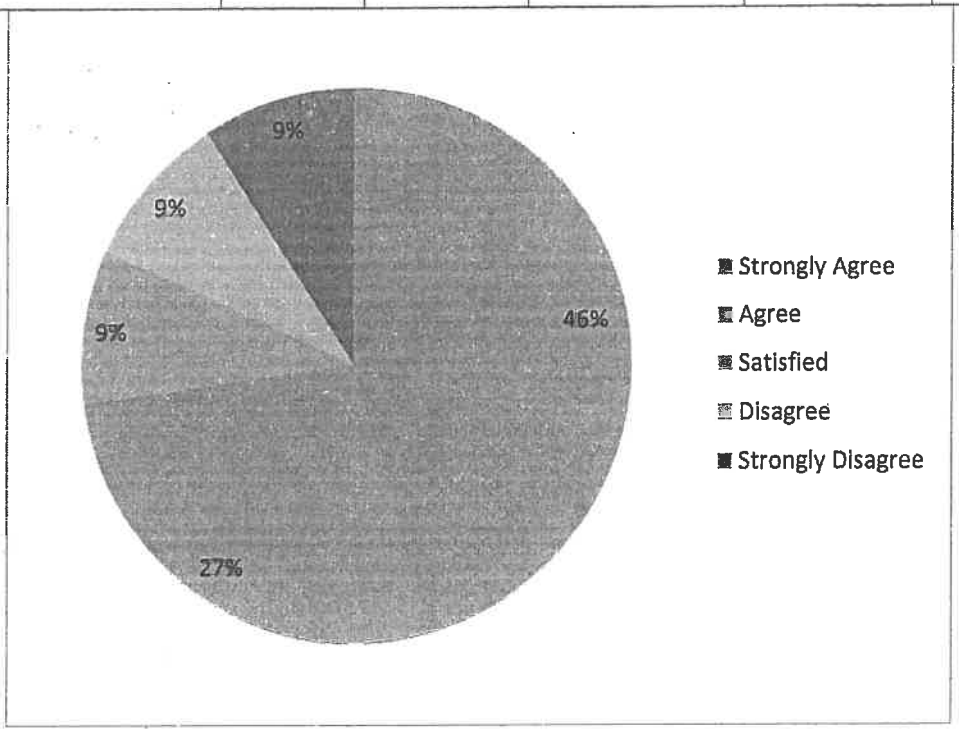
The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	18.18	9.09	9.09	9.09



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

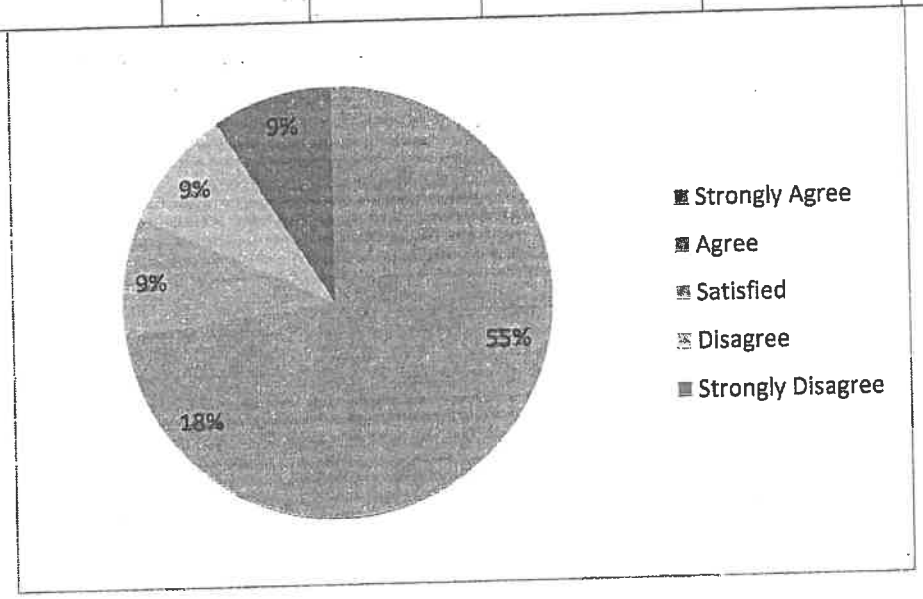
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09



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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

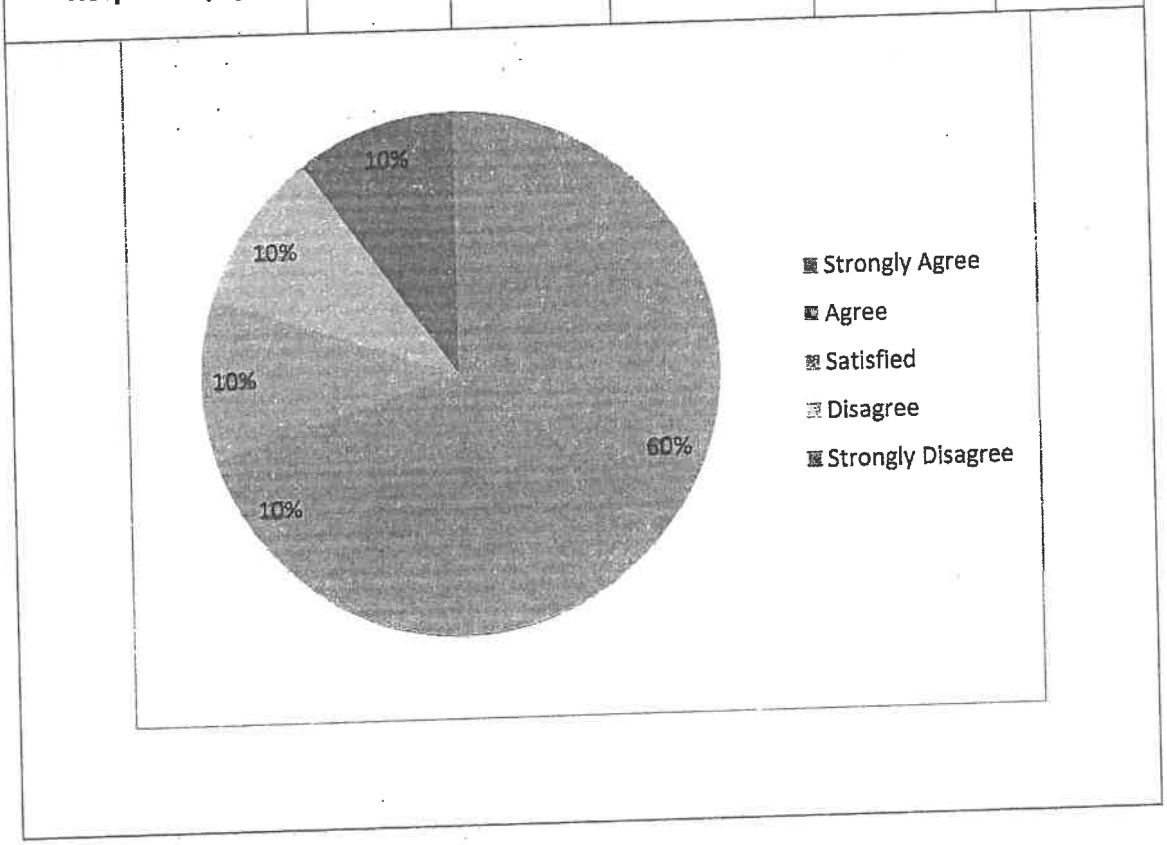
The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	18.18	9.09	9.09	9.09



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

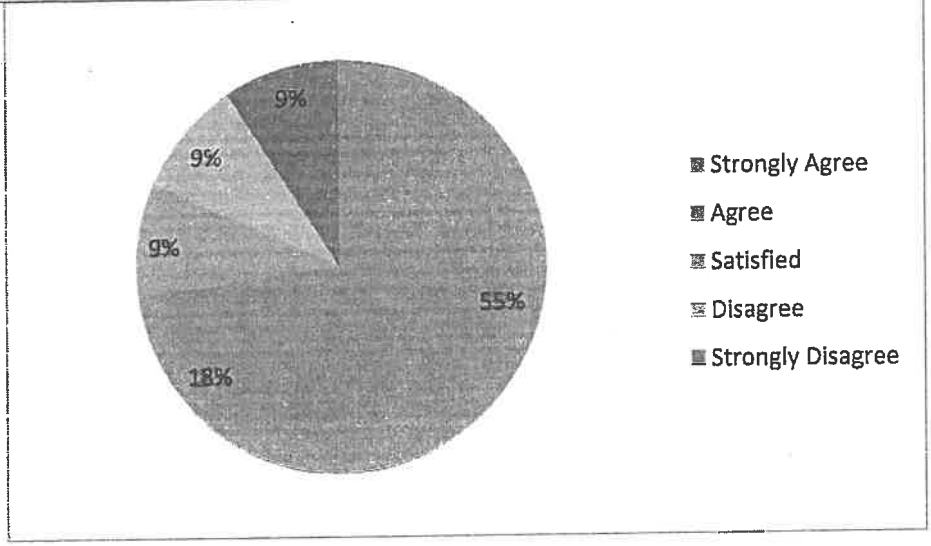
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60.00	10.00	10.00	10.00	10.00



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

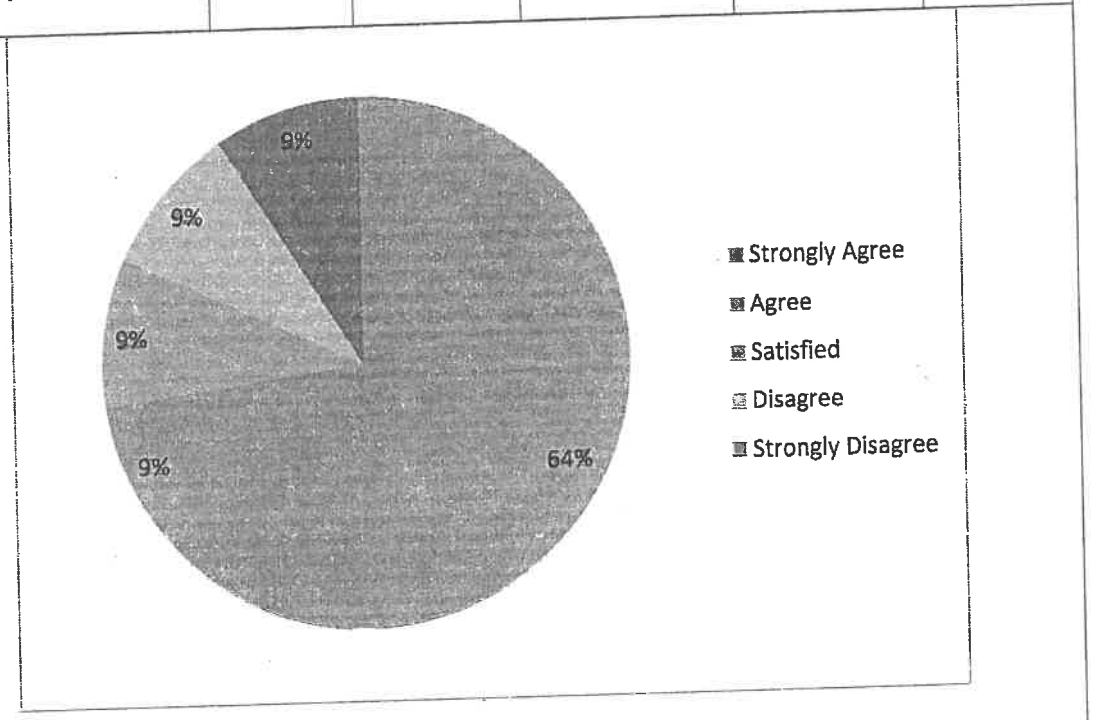
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	18.18	9.09	9.09	9.09



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Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

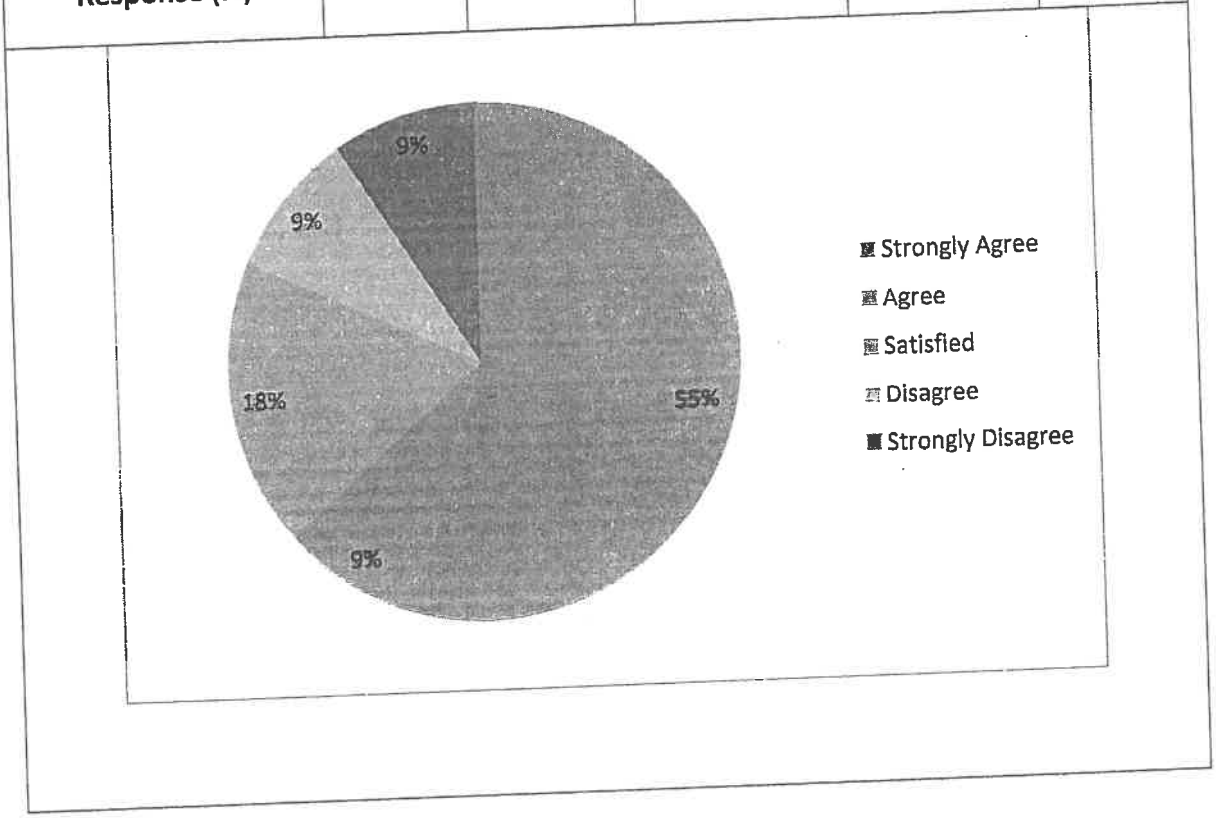
The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09



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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

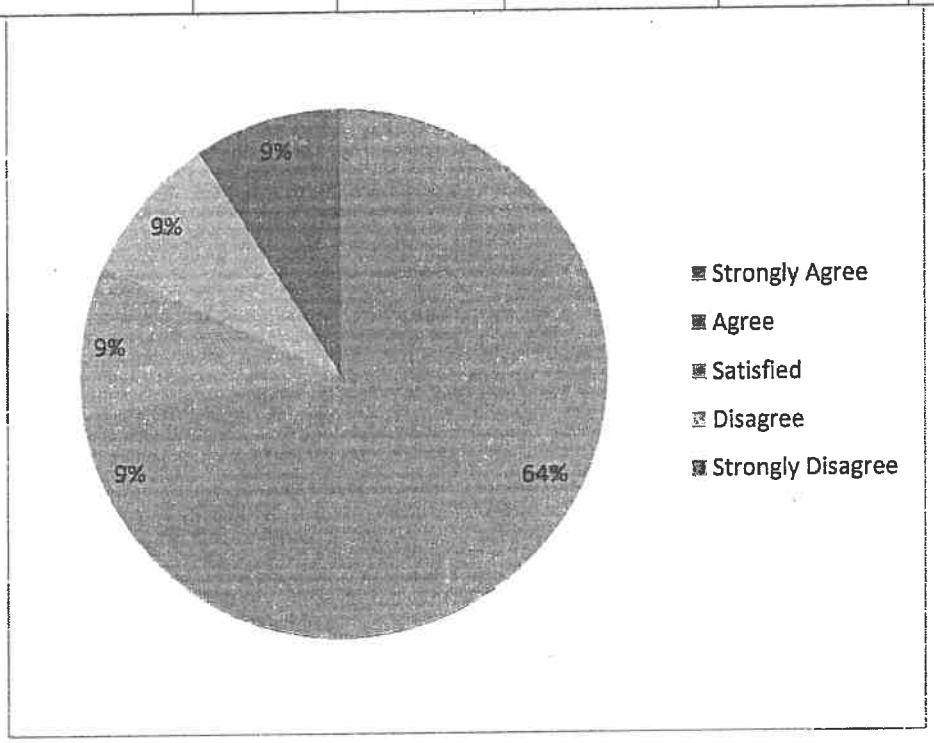
Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	9.09	18.18	9.09	9.09



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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09



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School of Agriculture & Environmental Sciences(11)

Total no. of Teachers : 11		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	5.00	2.00	2.00	1.00	1.00
	Percentage	45.45	18.18	18.18	9.09	9.09
The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	6.00	2.00	1.00	1.00	1.00
	Percentage	54.55	18.18	9.09	9.09	9.09
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	5.00	3.00	1.00	1.00	1.00
	Percentage	45.45	27.27	9.09	9.09	9.09
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	6.00	2.00	1.00	1.00	1.00
	Percentage	54.55	18.18	9.09	9.09	9.09
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	6.00	1.00	1.00	1.00	1.00
	Percentage	60.00	10.00	10.00	10.00	10.00
The curriculum provides	No. of	6.00	2.00	1.00	1.00	1.00

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ample knowledge for increased employability and to promote students for higher education.	Teachers					
	Percentage	54.55	18.18	9.09	9.09	9.09
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	6.00	1.00	2.00	1.00	1.00
	Percentage	54.55	9.09	18.18	9.09	9.09
The existing system for curriculum revision is found to be effective.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09

Analysis of Feedback:

The overall faculty feedback indicates a consistently positive perception of the curriculum, with most parameters scoring 81.82%, reflecting satisfaction across key academic dimensions. The curriculum is viewed as well-structured and balanced with appropriate credit allocation (81.82%), supporting both content delivery and student comprehension.

A strong alignment is also noted between theoretical and practical learning (81.82%), contributing to holistic student development. Courses promoting personality development, ethics, and employability received similar appreciation, indicating a balanced value-based and skill-oriented approach. The slightly lower score of 80.00% for entrepreneurship and industry-readiness suggests some room for enhancing practical exposure and entrepreneurial modules.

Furthermore, teachers affirm the curriculum's role in enhancing problem-solving abilities for societal issues (81.82%) and appreciate the freedom in curricular discussions (81.82%). The curriculum revision system also receives an identical score, signaling general confidence in the review and update mechanisms.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance practical exposure in entrepreneurship and industry-readiness modules.	Introduced additional hands-on workshops, internships, and industry visits. Added a dedicated module on entrepreneurial skills with guest speakers from successful startups.	Increased industry engagement and better student understanding of practical business applications. Positive student feedback on the real-world applicability of the curriculum.
2	Improve the balance of theory and practical components in certain courses.	Revised specific course structures to incorporate more practical assignments, case studies, and fieldwork. Adjusted the credit allocation to ensure more time for hands-on learning.	Enhanced student comprehension and skills application, with improved feedback on the practical relevance of theoretical concepts.
3	Strengthen personality development, ethics, and employability training.	Expanded the personality development curriculum to include communication workshops, ethical decision-making scenarios, and employability skill-building activities.	Positive student response, with noticeable improvement in self-confidence, ethical perspectives, and job-readiness.
4	Continue to support and improve the curriculum revision system.	Maintained regular faculty meetings for curriculum reviews, introduced student feedback surveys to gain insights, and created an online portal for curriculum suggestions.	Ensured the curriculum remains relevant and up-to-date. Increased faculty engagement in the revision process, leading to continuous improvement in course offerings.

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Annexure-3 (Item BOS 16.4)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2020-2021)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102 Fundamentals of Genetics	External Examiner 1. Dr. S. K. Singh, Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		2. Dr.Ashvani Panwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr. Ayush Bahuguna , Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com

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		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890

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			shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor Gochar Mahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, Gochar Mahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in

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7)	BAG-114 Fundamentals of Entomology	Internal Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
9)	BAG-118 Communication Skills and	1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com

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	Personality Development	2. Dr. L. B. Singh Professor , SVBPUAT Meerut	09450155766 dr.lbsingh@gmail.com
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+ 91-9411039192, 8630896418 Email: singhjp2005@gmail.com
		Internal Examiner 1 Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in

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12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1 Dr. Mahemdru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology for Fruit and Plantation Crops	External Examiner 1. Dr. Rakesh Kumar Singh Professor, **(CCSR PG College, Muzaffarnagar)**	9412113662 hahe1624@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com

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		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		2. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		Internal Examiner 1. Dr Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		2. Dr. S. K. Singh (Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		Internal Examiner 1 Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
17)	BAG-216 Agricultural Marketing Trade &	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com

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	Prices		
		2. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		Internal Examiner 1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Professor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
19)	BAG-304 Protected Cultivation and Secondary Agriculture	External Examiner 1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		2. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com

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		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, Gochar Mahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com

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		Mahavidhyalya	
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279

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			deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management, Production & Resource Economics	External Examiner 1. Dr. Adesh Kumar Assistant Professor SVBPUAT, Meerut	09412628586 adeshsingh29@rediffmail.com
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

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Signed by:

(Chairman, BOS)

School of Agricultural Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 18.06.2021

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 28.06.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 16th BOS Meeting held on 29 Dec.2020 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec.. 2021**.
3. Discussion on the Value Added courses offered for students and ratification of the same.
4. Any other matter with the permission of the Chair.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 18.06.2021

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 28.06.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

School of Agriculture & Env. Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 18.06.2021

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 28.06.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,
Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 28/06/2021

Attendance Sheet (17th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Prof.(Dr.) J P Singh	External	
2.	Prof.(Dr.) Rajbir Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	

Chairman

School of Agriculture & Env. Sciences
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H.o.D.

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School of Agriculture & Environmental Sciences

Date: 28.06.2021

Minutes of the Meeting of Board of Studies

17th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 28th June 2021 at 10:00 am onwards. The following members were present in the meeting:

1. Dr. Shivani — Chairperson
   Asstt. Professor & Head
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
2. Prof.(Dr.) J P Singh — External expert
   Gochar Mahavidyalaya
   Rampur Maniharan Saharanpur
3. Prof.(Dr.) Rajbir Singh — External Expert
   Gochar Mahavidyalaya
   Rampur Maniharan Saharanpur
4. Dr. Vikas — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
5. Dr. Mohd. Vaseem — Member
   Asstt. Professor
   School of Business Studies & Entrepreneurship
   Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 17.1: Approval of the Minutes of the 16th BOS Meeting held on 29 Dec.2020

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Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 17.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec. 2021**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 17.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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Annexure- 1 (Item BOS 17.1)

School of Agriculture & Environmental Sciences

Date: 29.12.2020

Minutes of the Meeting of Board of Studies

16th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 29th Dec. 2020 (at 10:00 am onwards) online through Google meet.

The following members were present in the meeting:

6.	Dr. Jai Prakash Mishra Professor & Dean School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
7.	Prof.(Dr.) J.P. Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 16.1: Approval of the Minutes of the 15th BOS Meeting held on 26 June 2020 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 16.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 16.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 16.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June. 2021**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 16.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academies)

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Annexure- 2 (Item BOS 17.2)

SHOBHIT UNIVERSITY GANGOH

SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2021-2022)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
		2. Dr. Sarita	9634585160

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		Sharma	sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor, GMV Rampur	9675000234 amit.tomar371@gmail.com
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Gunjan Agarwal	7533857468

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			gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Vishvash	928609396 vishvash.chand@shobhituniver

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		Chand	sity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Pushpendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Snigdha Tiwari	9457907517

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		Associate Professor SUM	singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	969041235080905063 71 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Crop Production Technology –	External Examiner 1. Dr.	8923971354 singhveer@gmail.com

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	I *(Kharif Crops)* (BAG-201)	Dharmveer Singh Associate Professor GMV Rampur	
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar Assistant	9675000234 amit.kumar@gmail.com

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		Professor GMV Rampur	
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics (BAG-207)	External Examiner 1. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@ shobhituniversity.ac.in
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum University	9557471931 asheeshmalik.9@gmail.com

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		Roorkee	
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and Disaster Management	External Examiner 1. Dr. Shiva Associate	8937877339 shiva@shobhituniversity.ac.in

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	(BAG-213)	Professor SUM	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfarnagar	9639001077 sandeepkail@yahoo.com
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafarnagar	9837104593 drgrsingh@gmail.com

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		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assistant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.co

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			m
		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr.Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University Roorkee	9557471931 asheeshmalik.9@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-	External Examiner 1. Mr Asheesh Malik Assistant Professor Motherhood University	9557471931 asheeshmalik.9@gmail.com

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	309)	2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. Kamlesh Shukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. Deepa Saini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in

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8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsing2006@gmail.com

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		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Neeraj Kumar	9690412350 neerajmandhar123@gmail.com

Signed by:

School of Agriculture & Basic Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 10.12.2021

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 22.12.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 17th BOS Meeting held on 28 June 2021 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report.
3. Analysis of the feedback on curriculum from stakeholders.
4. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2022.**
5. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University, Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH ★ H.o.D. ★

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 10.12.2021

To
Prof. (Dr.) J. P. Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 22.12.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

With regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences * SHOBHIT UNIVERSITY * H.O.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 10.12.2021

To
Prof.(Dr.) Rajbir Singh
Gochar Mahavidyalaya
Rampur Maniharan, Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 22.12.2021
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

SHOBHIT UNIVERSITY GANGOH (U.P.) School of Agriculture H.O.D.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 22/12/2021

Attendance Sheet (18th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Prof.(Dr.) J P Singh	External	
2.	Prof.(Dr.) Rajbir Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	

Chairman

School of Agriculture & Environmental Sciences * SHOBHIT UNIVERSITY GANGOH * H.o.D.

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School of Agriculture & Environmental Sciences

Date: 22.12.2021

Minutes of the Meeting of Board of Studies

18th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 22th Dec. 2021 at 10:00 am onwards. The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Prof.(Dr.) J P Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
3.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Vikas Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Dr. Mohd. Vaseem Asstt. Professor School of Business Studies & Entrepreneurship Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 18.1: Approval of the Minutes of the 17th BOS Meeting held on 28 June 2021 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 18.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 18.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 18.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2022.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 18.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academies)

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Annexure- 1 (Item BOS 18.1)
School of Agriculture & Environmental Sciences

Date: 28.06.2021

Minutes of the Meeting of Board of Studies

17th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 28th June 2021 at 10:00 am onwards. The following members were present in the meeting:

6.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
7.	Prof.(Dr.) J P Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Vikas Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Dr. Mohd. Vaseem Asstt. Professor School of Business Studies & Entrepreneurship Shobhit University Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies;

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 17.1: Approval of the Minutes of the 16th BOS Meeting held on 29 Dec.2020 Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 17.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec.. 2021**. The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 17.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academics)

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EDUCATION EMPOWERS

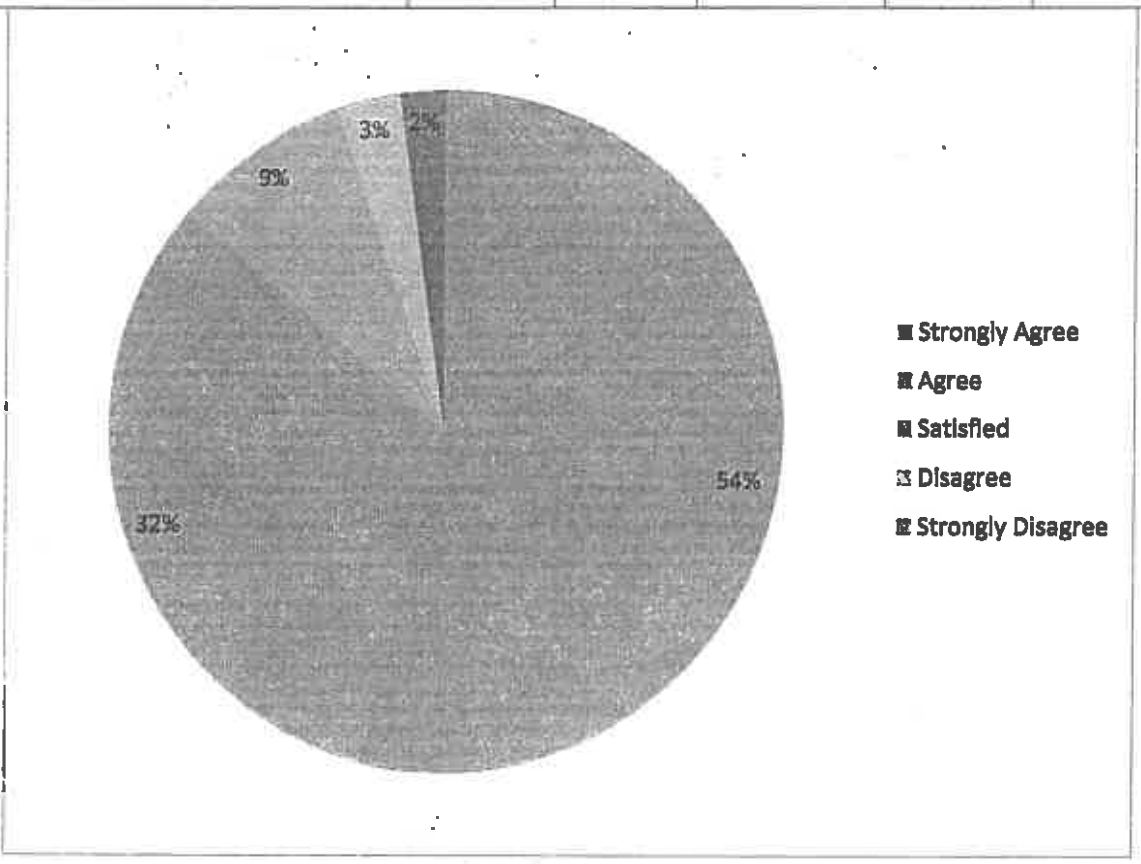
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Annexure- 2 (Item BOS 18.2 & 18.3)

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

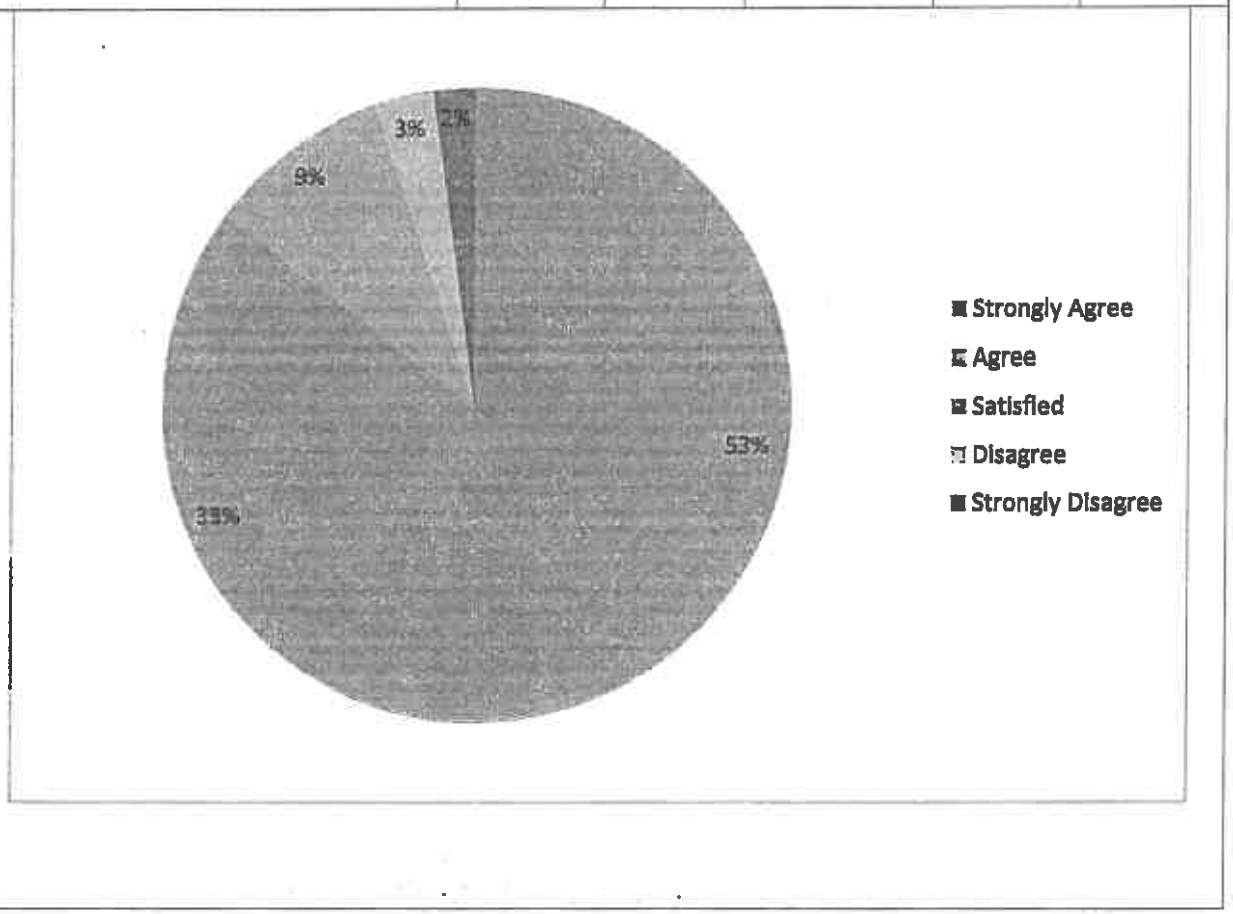
Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.91304	32.17391	8.695652	3.043478	2.173913



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Q.2. How do you rate the course outcomes and relevance to the course content?

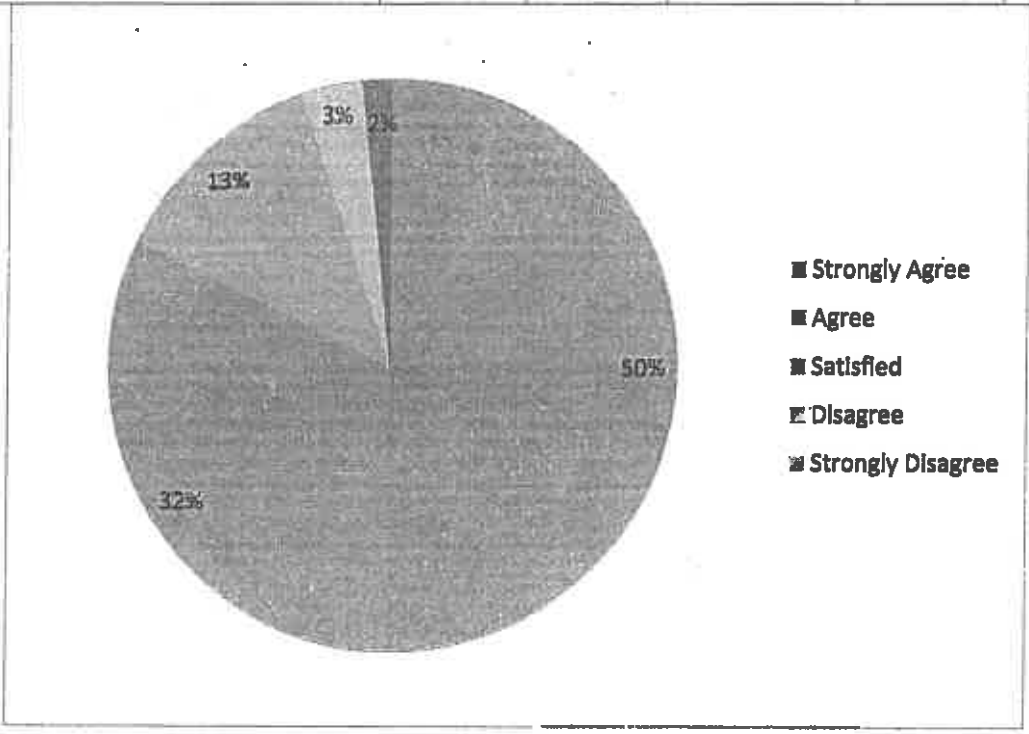
Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.6087	32.6087	9.565217	3.043478	2.173913



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Q.3. How do you rate the sequence of units in the courses?

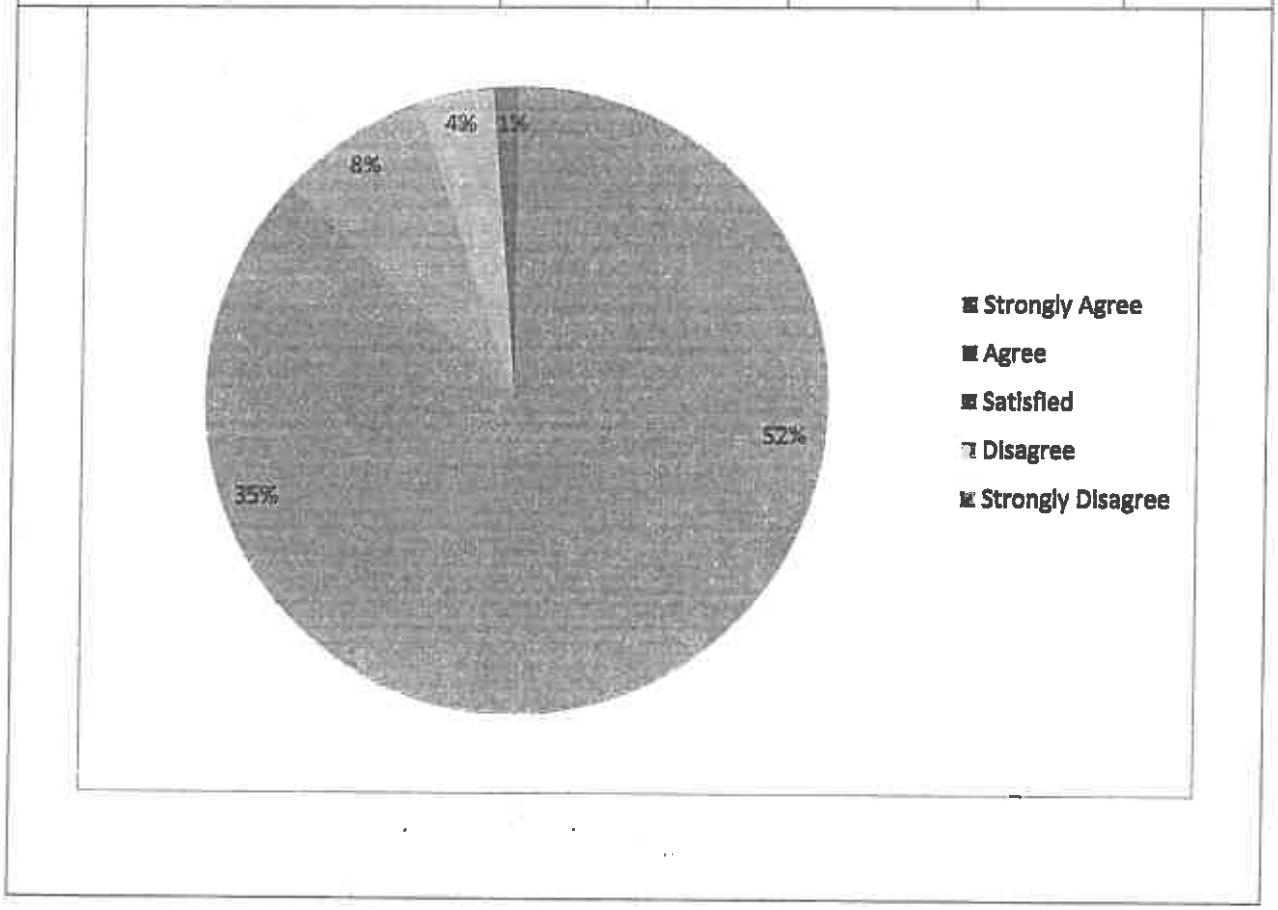
Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	32.17391	12.6087	3.478261	1.73913



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Q.4. How do you rate the credits allotted to individual courses?

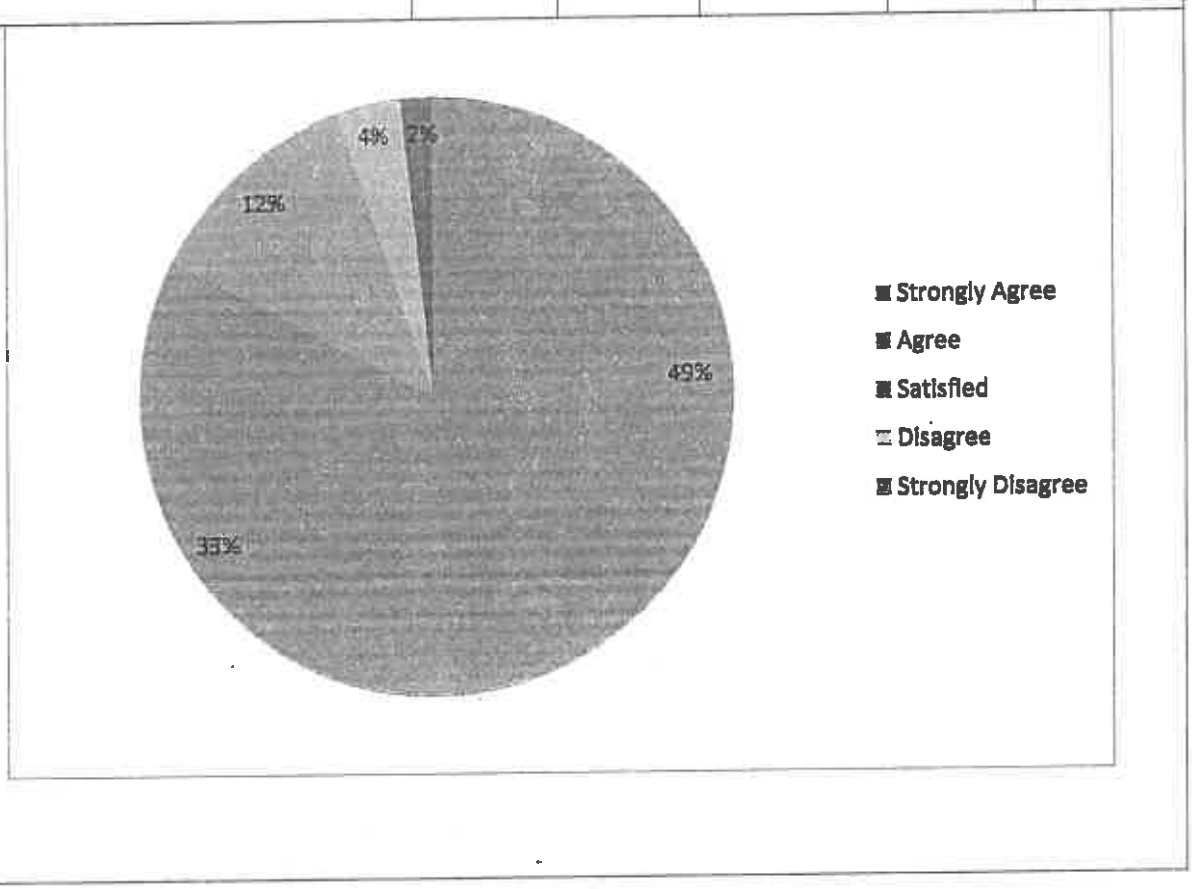
Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.17391	34.78261	7.826087	3.913043	1.304348



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Q.5. Does the curriculum focus on employability/career orientation?

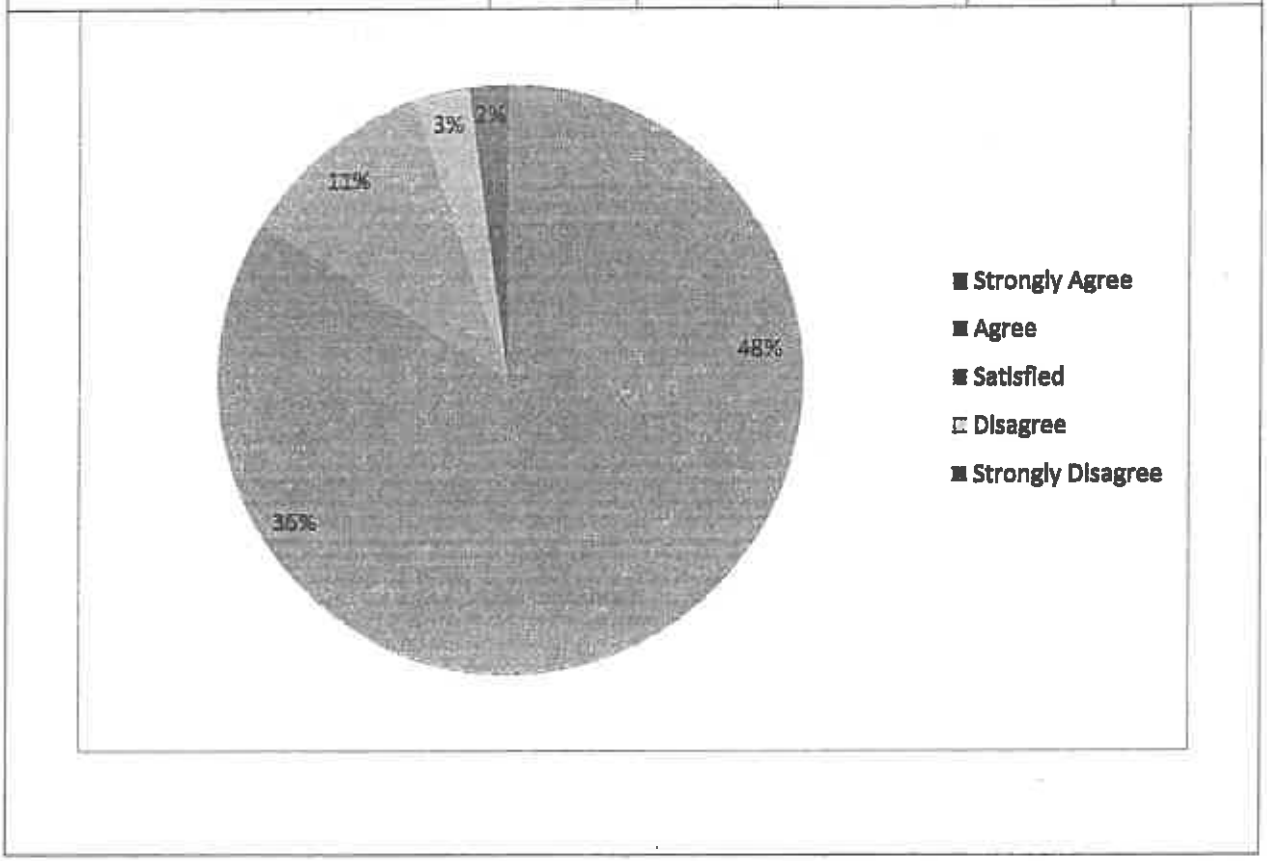
Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.13043	33.47826	12.17391	3.478261	1.73913



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Q.6. Does the curriculum focus on skill development/entrepreneurship?

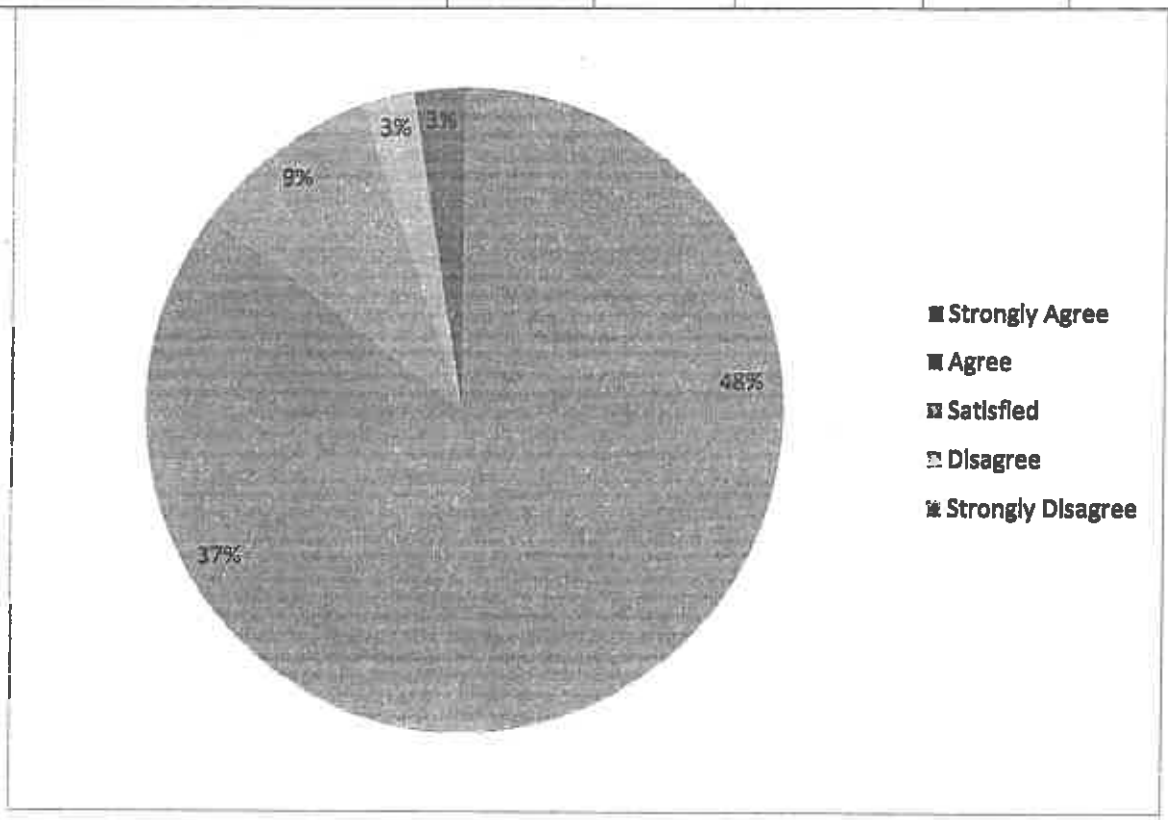
Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.82609	36.08696	10.86957	3.043478	2.173913



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Q.7. Does the curriculum have satisfactory number of elective courses?

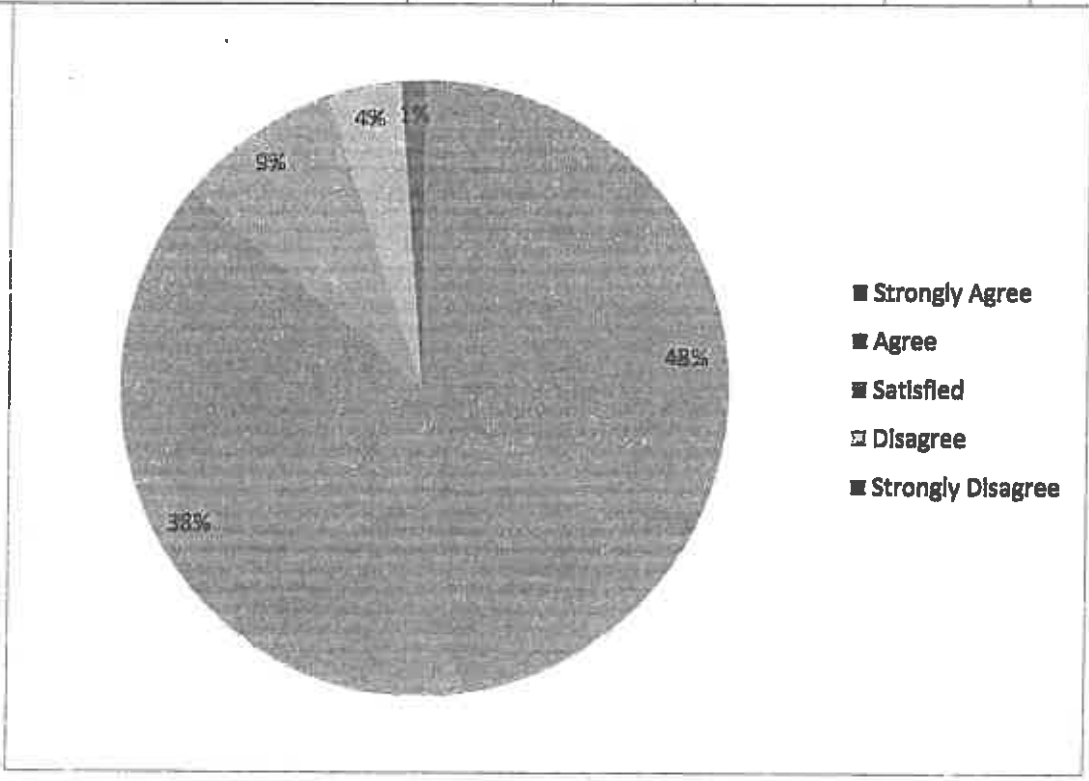
Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.26087	36.95652	9.565217	2.608696	2.608696



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Q.8. Does the curriculum focus on life skill or help in value addition?

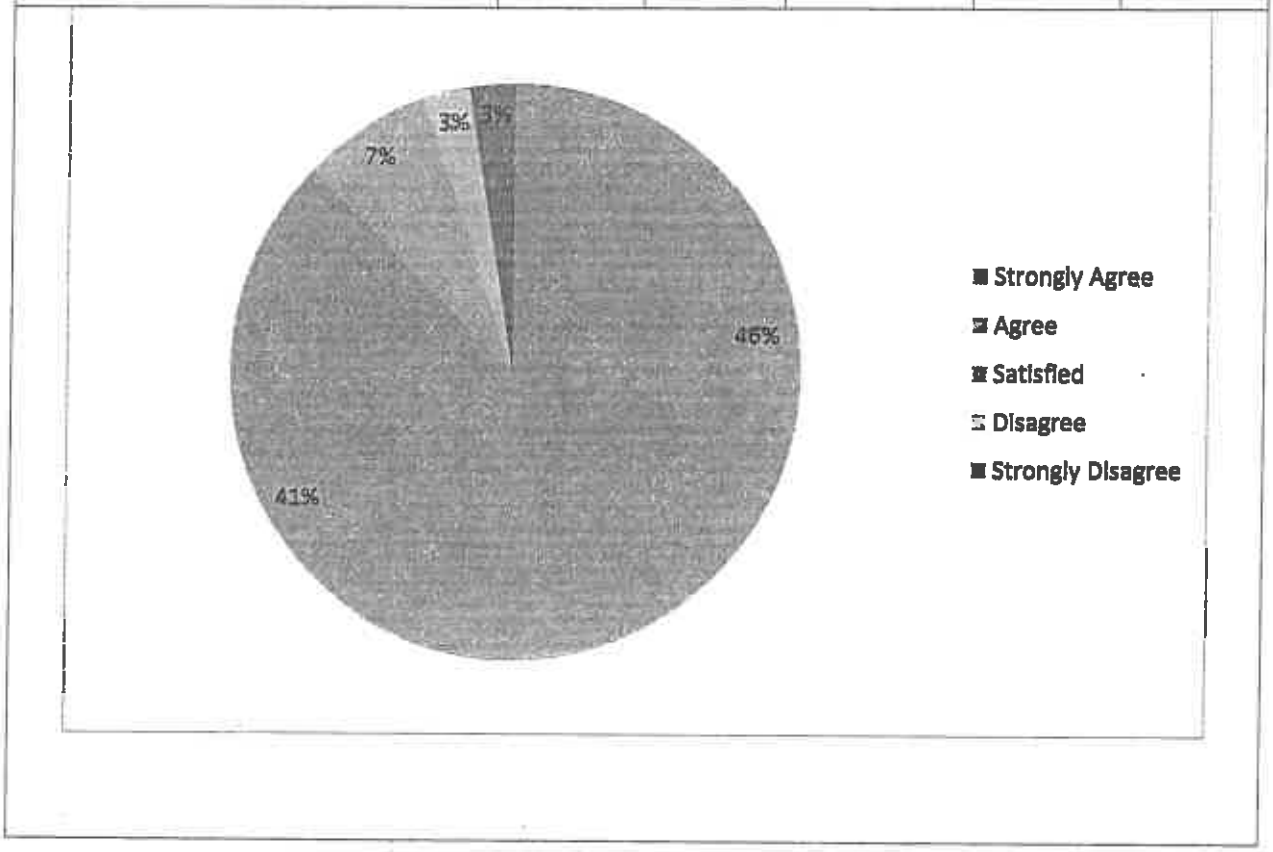
Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.82609	38.26087	8.695652	3.913043	1.304348



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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

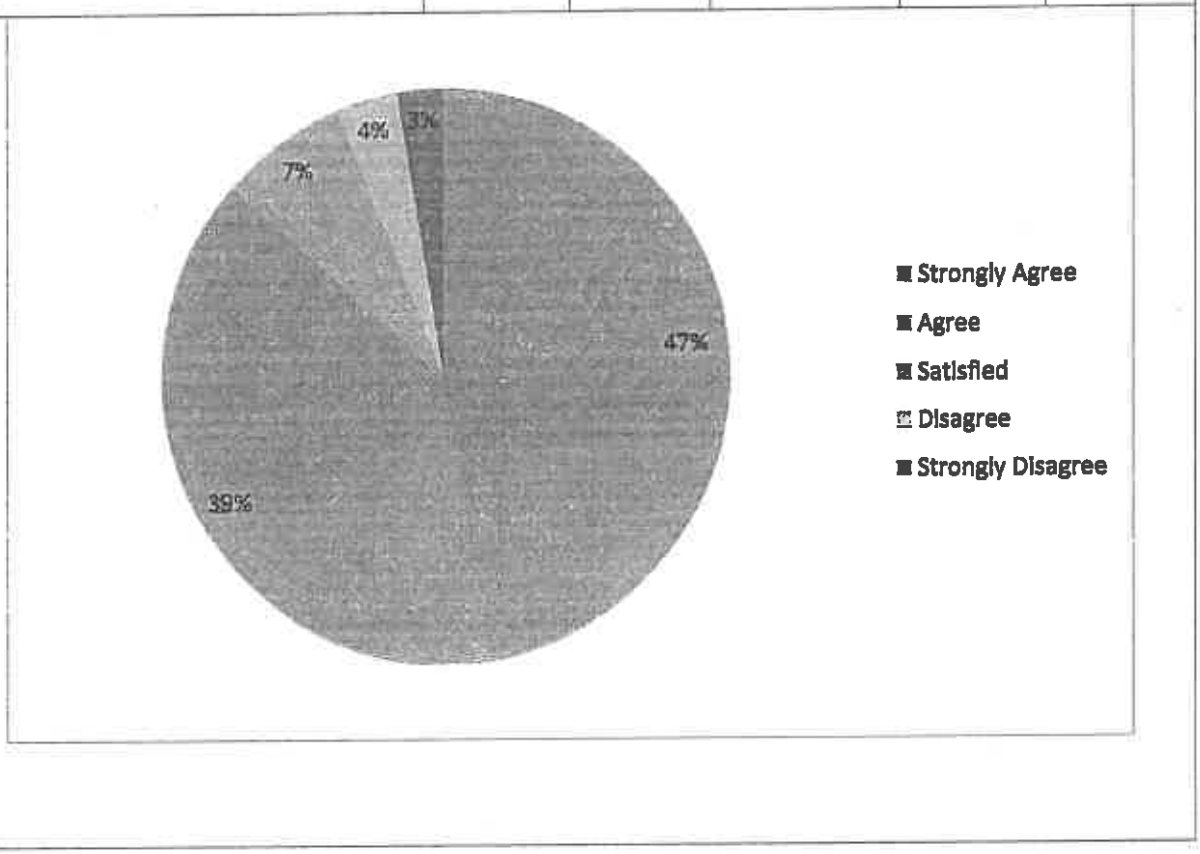
Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	46.52174	40.86957	7.391304	2.608696	2.608696



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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.3913	39.13043	7.391304	3.478261	2.608696



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School of Agriculture & Environment Sciences (230)						
Question	Details	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	124	74	20	7	5
	Percentage	53.91304348	32.17391304	8.695652174	3.043478261	2.173913043
How do you rate the course outcomes and relevance to the course content?	No of Students	121	75	22	7	5
	Percentage	52.60869565	32.60869565	9.565217391	3.043478261	2.173913043
How do you rate the sequence of units in the courses?	No of Students	115	74	29	8	4
	Percentage	50	32.17391304	12.60869565	3.47826087	1.739130435
How do you rate the credits allotted to individual courses?	No of Students	120	80	18	9	3
	Percentage	52.17391304	34.7826087	7.826086957	3.913043478	1.304347826
Does the curriculum focus on employability/career orientation?	No of Students	113	77	28	8	4
	Percentage	49.13043478	33.47826087	12.17391304	3.47826087	1.739130435
Does the curriculum focus on skill development/entrepreneurship?	No of Students	110	83	25	7	5
	Percentage	47.82608696	36.08695652	10.86956522	3.043478261	2.173913043
Does the curriculum have satisfactory number of elective courses?	No of Students	111	85	22	6	6
	Percentage	48.26086957	36.95652174	9.565217391	2.608695652	2.608695652
Does the curriculum focus on life skill or help in value addition?	No of Students	110	88	20	9	3
	Percentage	47.82608696	38.26086957	8.695652174	3.913043478	1.304347826
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	107	94	17	6	6
	Percentage	46.52173913	40.86956522	7.391304348	2.608695652	2.608695652
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	109	90	17	8	6
	Percentage	47.39130435	39.13043478	7.391304348	3.47826087	2.608695652

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Analysis of Feedback:

The student feedback for the School of Agriculture & Environment Sciences reflects a broadly positive perception of the curriculum, with key strengths in subject depth, course structure, and practical alignment. Over half of the students (53.91%, 124 students) strongly agreed that the curriculum has adequate depth and helps in concept clarity, with another 32.17% agreeing. Similar satisfaction was noted in course outcomes and relevance, with 52.61% strongly agreeing and 32.61% agreeing, indicating a strong connection between course content and learning objectives.

The sequence of units in courses was also well received, with 50% of students strongly agreeing and 32.17% agreeing. Credit allocation drew favorable responses as well, with 52.17% strongly agreeing and 34.78% agreeing. The curriculum's focus on employability and career orientation saw slightly lower—but still positive—approval, with 49.13% strongly agreeing and 33.48% agreeing.

Skill development and entrepreneurship were viewed positively by 47.83% of students strongly agreeing and 36.09% agreeing, while the availability of elective courses received good feedback with 48.26% strongly agreeing and 36.96% agreeing. A majority also acknowledged the value addition and life skills component, with 47.83% strongly agreeing and 38.26% agreeing.

Practical integration, including real-life exposure and lab linkage, was affirmed by 46.52% strongly agreeing and 40.87% agreeing. Lastly, multidisciplinary learning was recognized positively, with 47.39% of students strongly agreeing and 39.13% agreeing. Overall, the curriculum is seen as comprehensive and well-structured, though there remains scope to further enhance employability integration and practical exposure.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

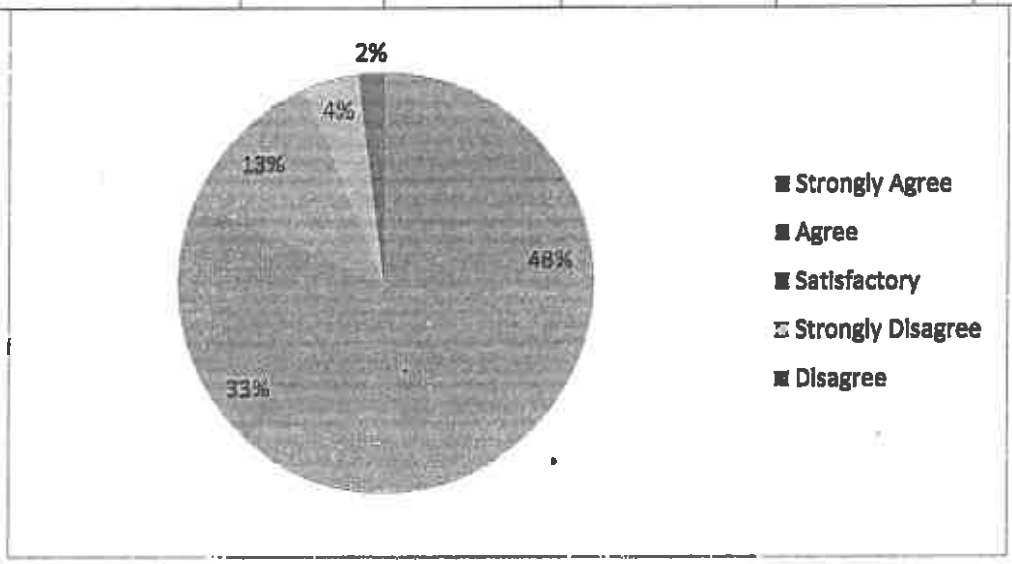
Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance practical exposure and real-life application through labs and fieldwork.	Increased frequency of field visits, industry tie-ups, and hands-on training in labs and farms.	Students demonstrated improved practical skills and stronger understanding of real-world applications.
2	Strengthen career-oriented components within the curriculum.	Introduced career guidance sessions, resume-building workshops, and campus placement drives.	Students reported higher confidence in career planning and job readiness.
3	Expand skill development and entrepreneurship training.	Organized entrepreneurship bootcamps, skill-based electives, and mentorship from agri-entrepreneurs.	Greater student interest in startup ventures and innovation in agriculture and environmental sectors.
4	Continuously review and update elective courses for relevance.	Curriculum review committee formed to assess elective offerings based on student and industry feedback.	Elective options became more diverse and aligned with emerging trends and career paths.

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Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The courses based on state of art trends and recent developments?

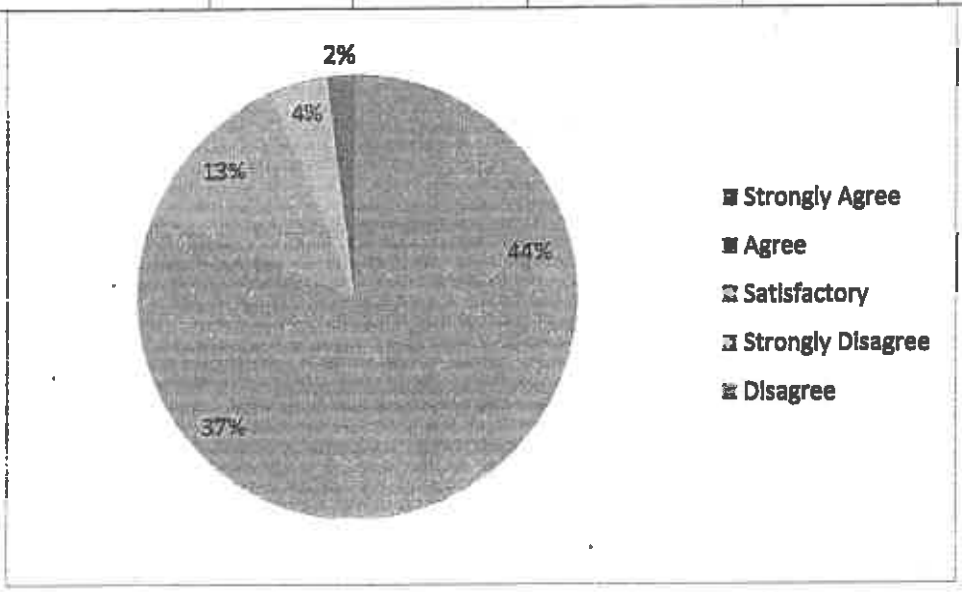
The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	47.92	33.33	12.50	4.17	2.08



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Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

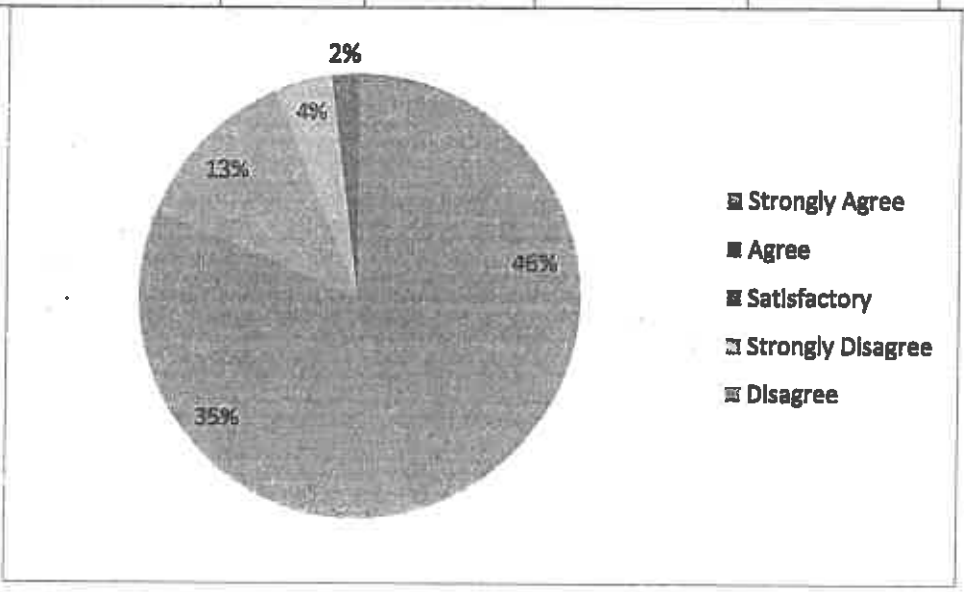
The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	37.50	12.50	4.17	2.08



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Q.3 The courses found to be productive in competing professionally at national/international level?

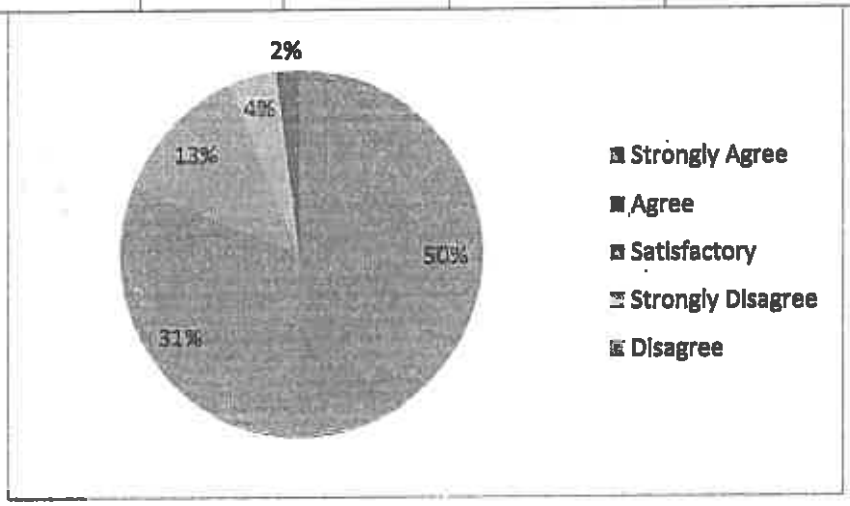
The courses found to be productive in competing professionally at national/international level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	45.83	35.42	12.50	4.17	2.08



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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

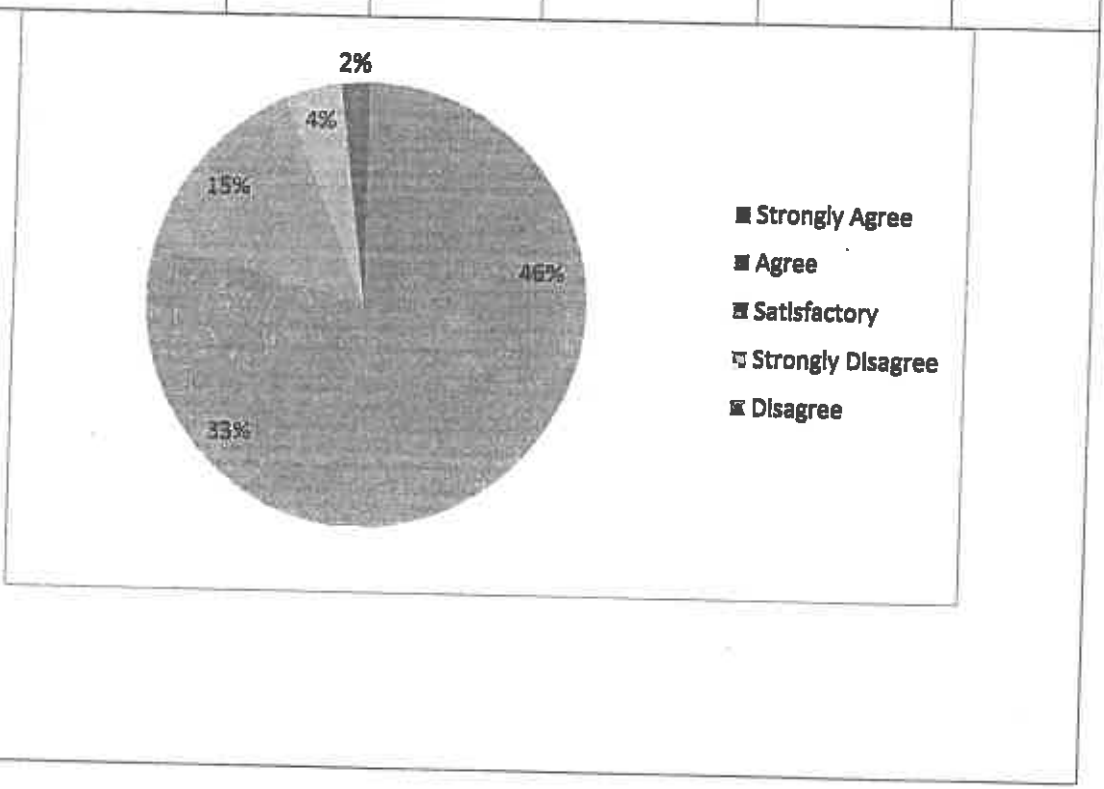
The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	50.00	31.25	12.50	4.17	2.08



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Q.5 Theprogramme helped to understand the impact of domain knowledge in social and global context?

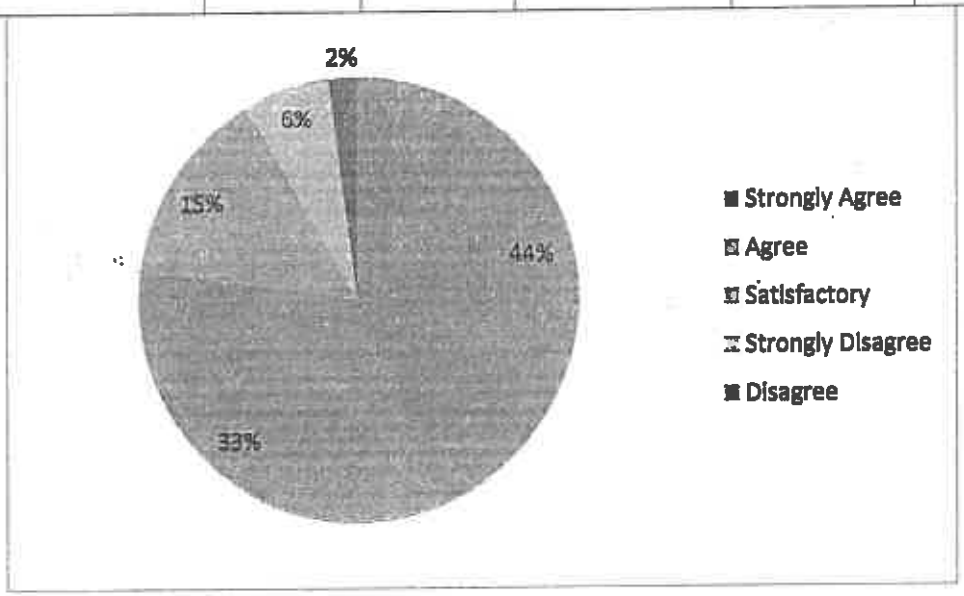
The programme helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	45.83	33.33	14.58	4.17	2.08



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Q.6 Theprogramme provided awareness on recent advancements and innovations?

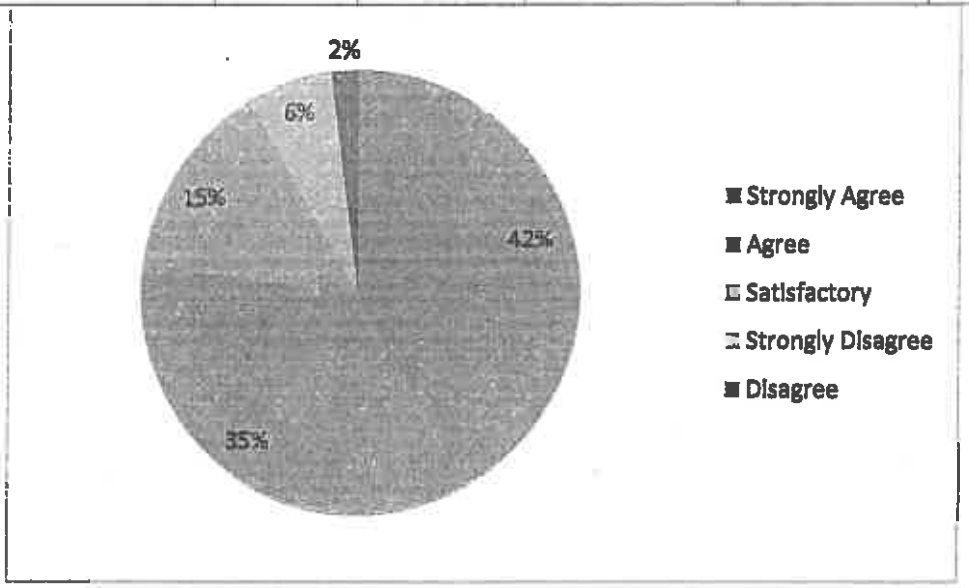
The programme provided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	33.33	14.58	6.25	2.08



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Q.7 Theprogramme improved critical thinking ability and problem-solving aptitude.

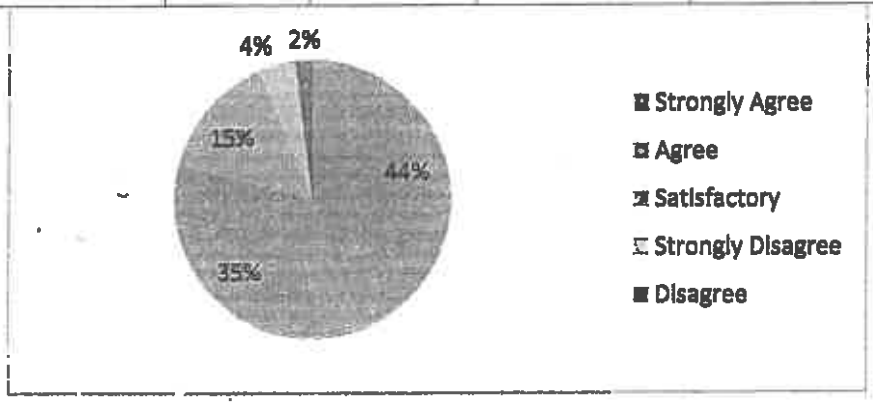
The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.67	35.42	14.58	6.25	2.08



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Q.8 The programed helped to take independent decisions and perform managerial & administerial functions diligently?

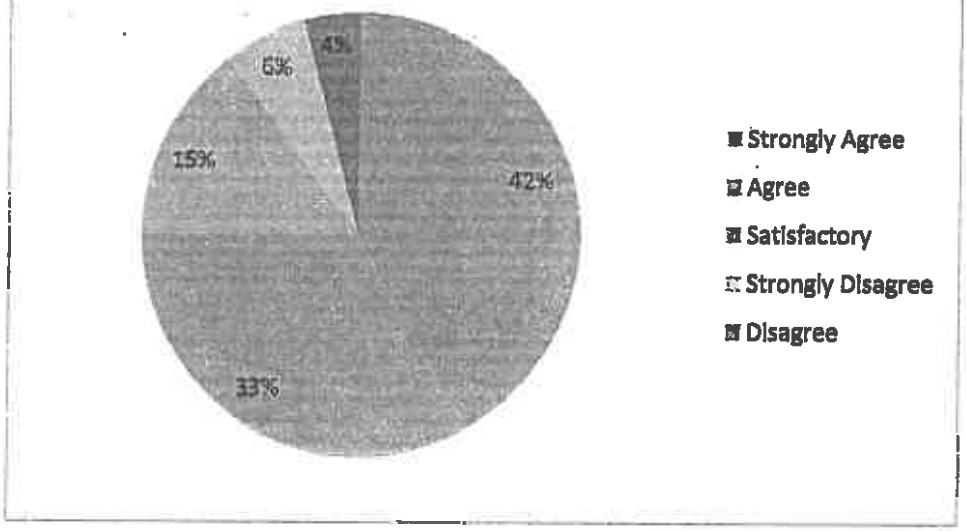
The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	43.75	35.42	14.58	4.17	2.08



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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.67	33.33	14.58	6.25	4.17



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	School of Agriculture and Environmental Science (48)						
Sr.No.	Questions		Strongly Agree	Agree	Satisfactory	Strongly Disagree	Disagree
1	The courses based on state of art trends and recent developments?	No of Alumni	23	16	6	2	1
		Percentage	47.92	33.33	12.50	4.17	2.08
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	21	18	6	2	1
		Percentage	43.75	37.50	12.50	4.17	2.08
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	22	17	6	2	1
		Percentage	45.83	35.42	12.50	4.17	2.08
4	The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?	No of Alumni	24	15	6	2	1
		Percentage	50.00	31.25	12.50	4.17	2.08
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	22	16	7	2	1
		Percentage	45.83	33.33	14.58	4.17	2.08
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	21	16	7	3	1
		Percentage	43.75	33.33	14.58	6.25	2.08
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	20	17	7	3	1
		Percentage	41.67	35.42	14.58	6.25	2.08
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	21	17	7	2	1
		Percentage	43.75	35.42	14.58	4.17	2.08
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	20	16	7	3	2
		Percentage	41.67	33.33	14.58	6.25	4.17

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Analysis of the Feedback

The alumni feedback on the curriculum highlights both strengths and areas for improvement. On the positive side, 93.75% of alumni found the program highly effective in developing skills and knowledge within their respective domains, motivating students towards nation-building by instilling ethical and professional values, raising awareness of recent advancements and innovations, and enhancing critical thinking, problem-solving, and managerial abilities. These areas were consistently rated highly, reflecting the program's success in preparing students for professional and ethical challenges. However, there were notable concerns regarding the curriculum's alignment with contemporary trends and its ability to prepare students for national and international competition, with only 45% of alumni feeling that the courses were based on state-of-the-art trends or helped them understand the global and social impact of their domain knowledge. Additionally, the low rating of 45% for the program's impact on research and higher studies preparation suggests that the curriculum may require further development to support advanced academic pursuits. Overall, while the curriculum excels in foundational and ethical education, it appears to fall short in areas related to modern industry trends, global competitiveness, and research preparation.

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Action Taken Report

(School of Agriculture and Environmental Science)

Sr. No.	Suggestions	Action Taken	Outcome
1	Update curriculum to reflect contemporary trends and industry practices	Revised curriculum in consultation with industry experts and included modules on precision farming, sustainable practices, and agri-tech	Alumni satisfaction with curriculum relevance increased in 2022–23 feedback (up by 25%)
2	Enhance global and social impact awareness in course content	Introduced elective courses such as "Global Environmental Issues" and "Climate-Resilient Agriculture"; included international case studies	Improved student understanding of global agricultural challenges; increased enrollment in elective courses
3	Strengthen research and higher education readiness	Launched final-year capstone research projects; conducted workshops on research writing, funding opportunities, and competitive exams	More students enrolled in postgraduate and research programs; research paper submissions increased by 30%
4	Improve preparation for national/international level competition	Organized training for competitive exams like ICAR, GRE, and environmental fellowships; invited guest lectures from global experts	Student participation in national-level quizzes and international seminars grew significantly in 2022–23

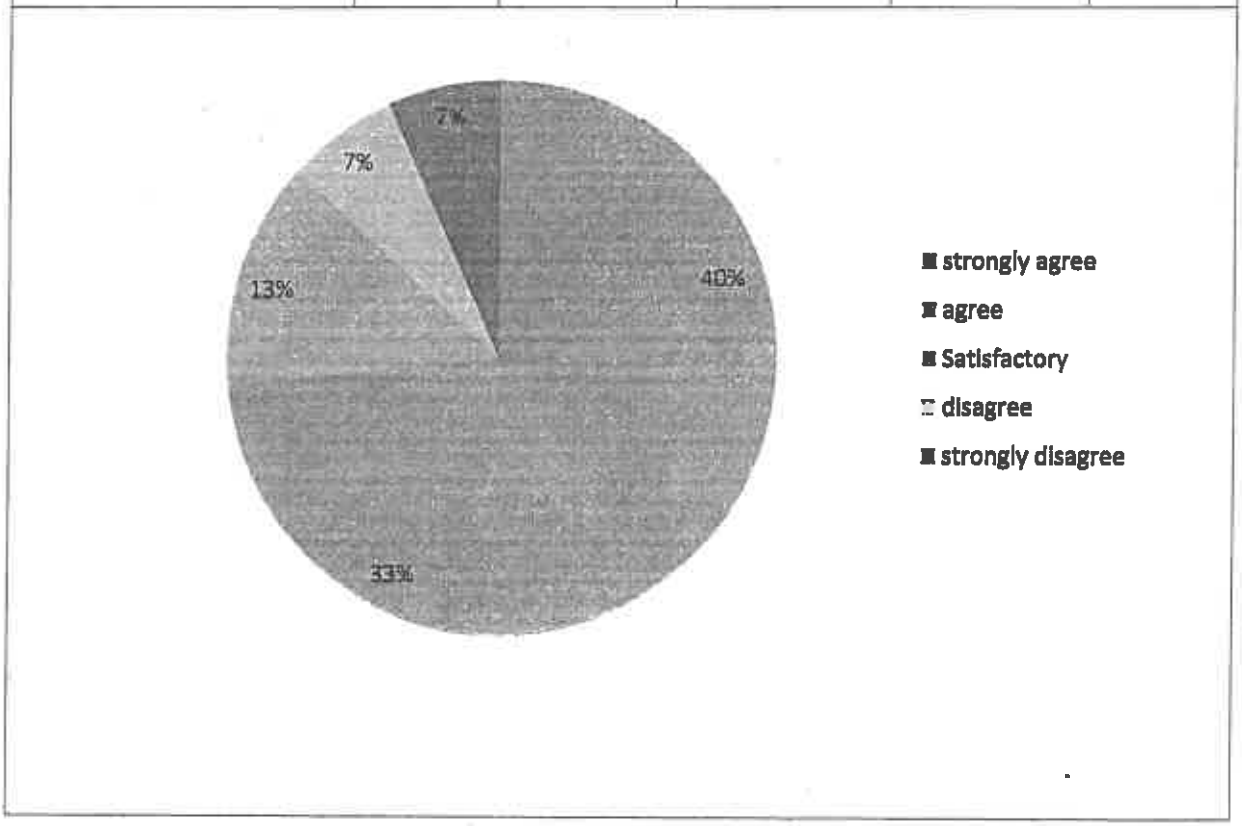
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Analysis of Employer's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum assists the students to acquire necessary entry level skills in industrial sector.

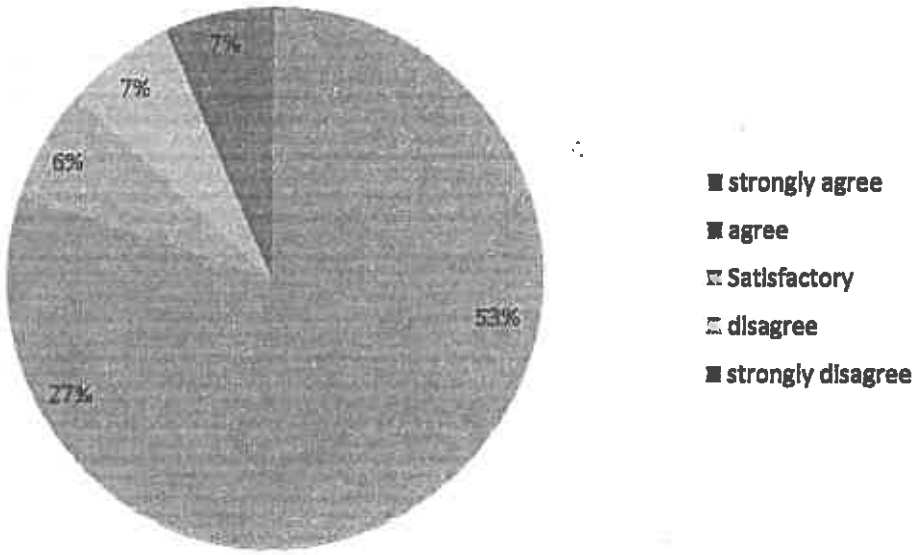
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	33.33	13.33	6.67	6.67



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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

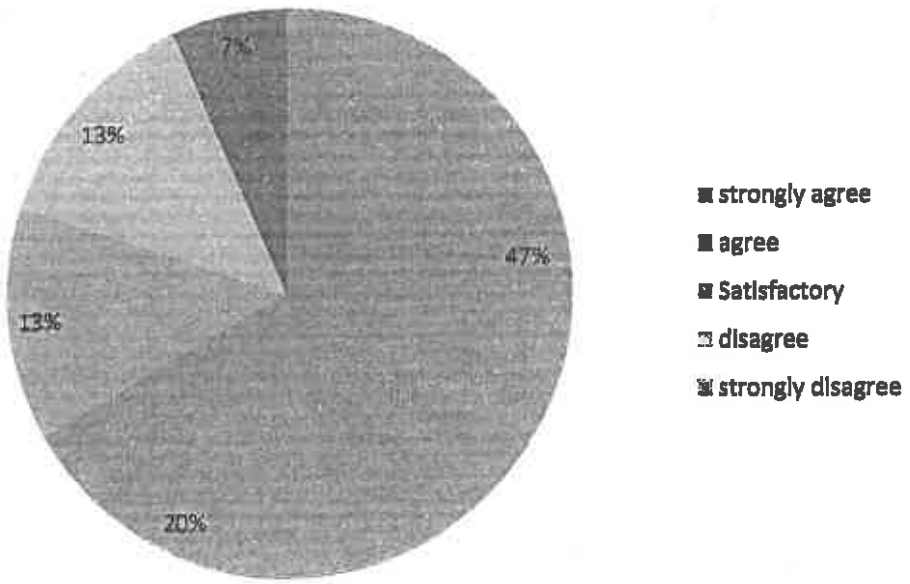
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.33	26.67	6.67	6.67	6.67



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

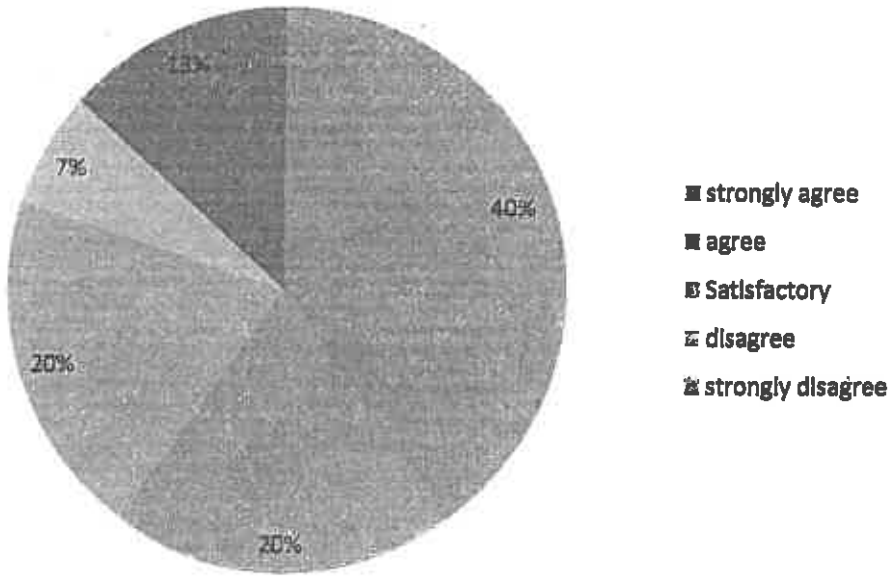
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	46.67	20.00	13.33	13.33	6.67



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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

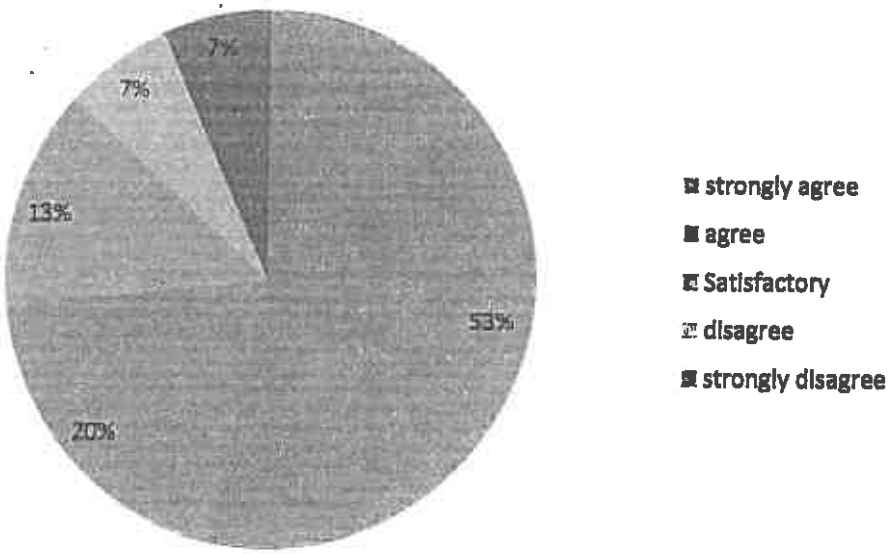
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	20.00	20.00	6.67	13.33



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

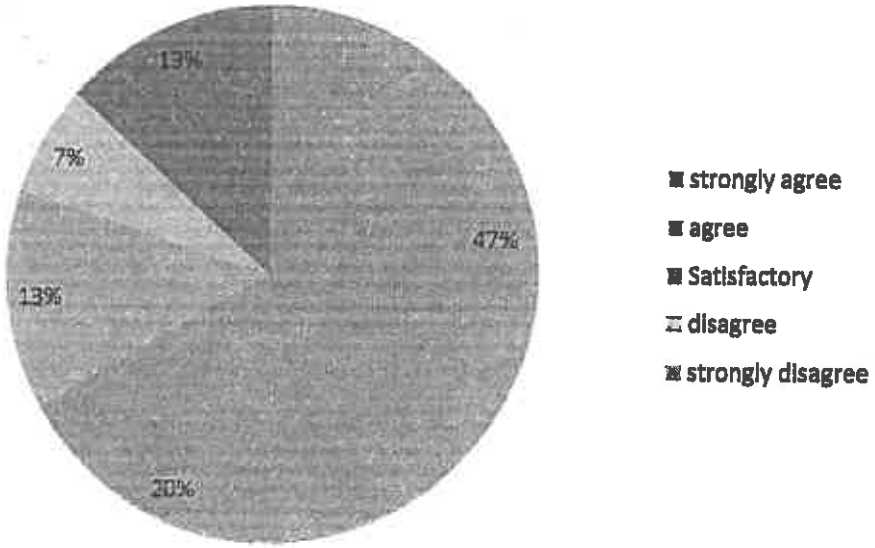
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.33	20.00	13.33	6.67	6.67



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

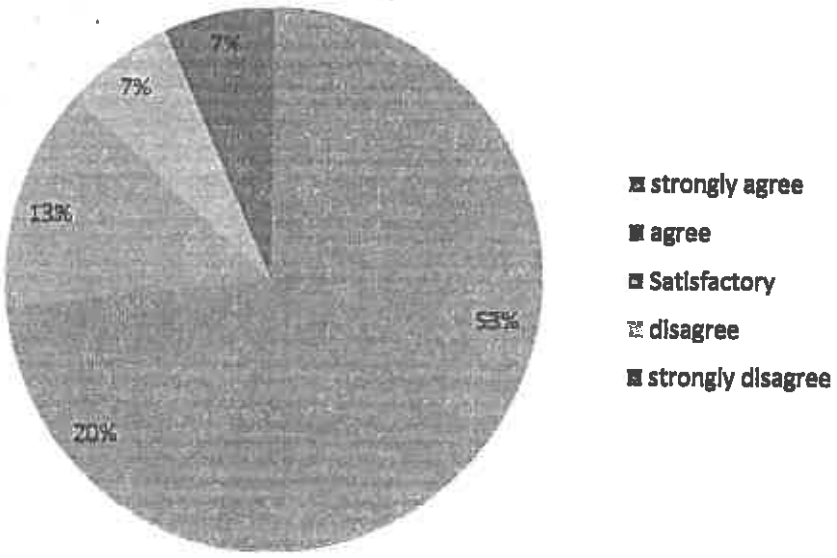
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	46.67	20.00	13.33	6.67	13.33



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

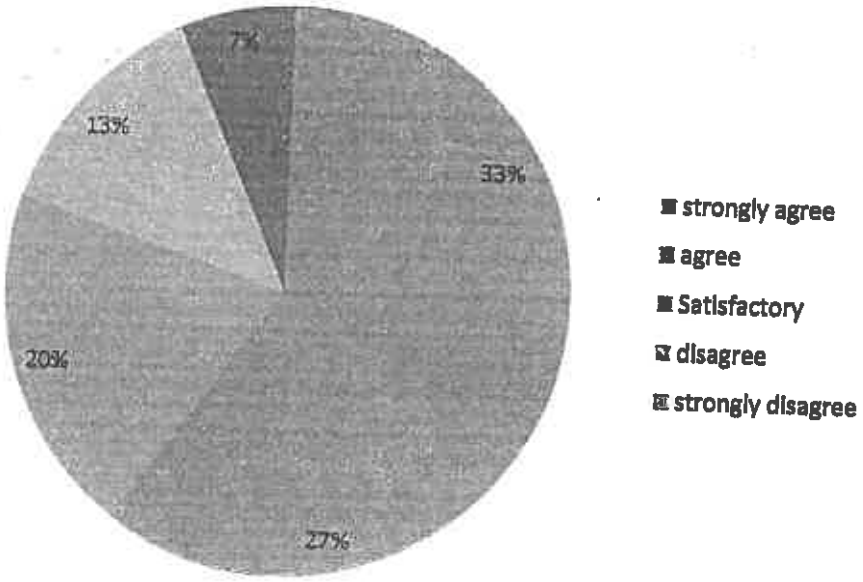
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.33	20.00	13.33	6.67	6.67



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

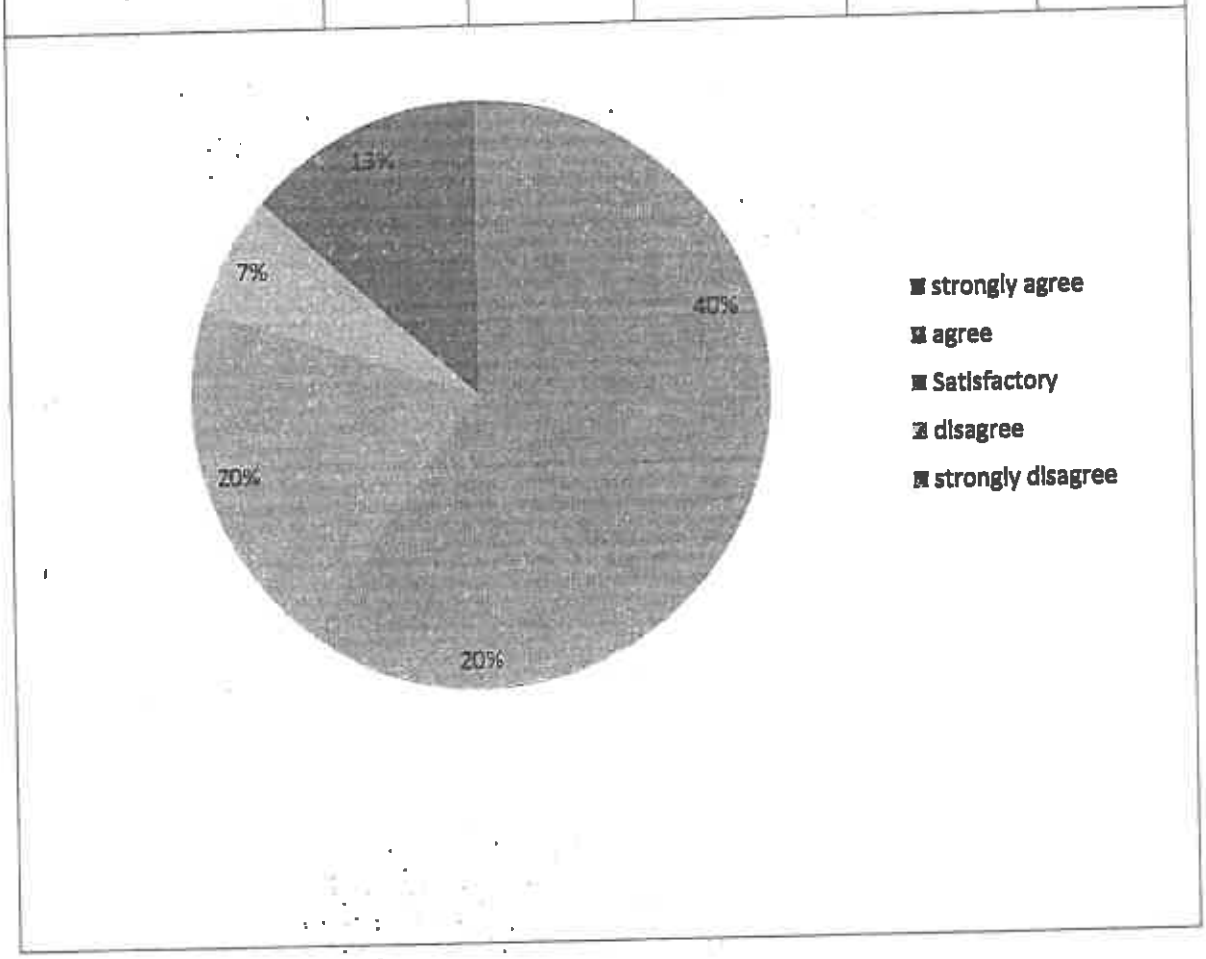
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	33.33	26.67	20.00	13.33	6.67



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	40.00	20.00	20.00	6.67	13.33



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School of Agriculture and Environmental (15)

Total no. of Employer: 15		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Employer	6	5	2	1	1
	Percentage	40.00	33.33	13.33	6.67	6.67
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Employer	8	4	1	1	1
	Percentage	53.32	26.67	6.67	6.67	6.67
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses	No. of Employer	7	3	2	2	1
	Percentage	46.67	20.00	13.33	13.33	6.67
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.	No. of Employer	6	3	3	1	2
	Percentage	40.00	20.00	20.00	6.67	13.33
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Employer	8	3	2	1	1
	Percentage	53.33	20.00	13.33	6.67	6.67
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Employer	7	3	2	1	2
	Percentage	46.67	20.00	13.33	6.67	13.33
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Employer	8	3	2	1	1
	Percentage	53.33	20.00	13.33	6.67	6.67

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The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Employer	5	4	3	2	1
	Percentage	33.33	26.67	20.00	13.33	6.67
The courses have adequate balance between theory and application for a student's holistic development.	No. of Employer	6	3	3	1	2
	Percentage	40.00	20.00	20.00	6.67	13.33

Analysis of Feedback:

The employer feedback analysis on the curriculum reflects a generally strong and positive response, with several key areas receiving high marks. The curriculum is highly regarded for its ability to equip students with the necessary entry-level skills for the industrial sector (86.66%) and for fostering lifelong learning and the development of skills for new technologies and tools (86.66%). It also offers good opportunities for multidisciplinary knowledge, though slightly lower at 80%, which reflects a potential area for improvement in terms of elective courses and breadth of topics covered. The curriculum effectively helps students work both independently and in teams with adaptability (80%), and it offers sufficient opportunities for enhancing entrepreneurial skills and industry readiness (86.66%).

While the curriculum does provide valuable knowledge for boosting employability and encouraging higher education, this aspect received a slightly lower rating of 80%, indicating that it might benefit from further alignment with industry needs. The curriculum's focus on personality development through courses on human values and professional ethics is well appreciated (86.66%), contributing positively to students' overall growth. Additionally, the program is seen as well-organized and balanced, though credit allocation and the balance between theory and practical application were rated at 80%, suggesting there is room for strengthening the real-world applicability of the content. Overall, the curriculum is seen as solid and industry-relevant, with a few areas where minor adjustments could enhance its impact.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Broaden the scope of elective and interdisciplinary courses	Introduced new electives in climate-smart agriculture, agribusiness, and environmental biotechnology	Enhanced student exposure to emerging fields and improved adaptability to cross-sector roles
2	Strengthen industry integration for better employability	Established MoUs with agri-tech firms for internships, industry lectures, and joint projects	Improved job readiness and increased placement opportunities
3	Increase practical exposure and field application of theoretical concepts	Added more fieldwork, on-campus research projects, and live demonstrations on sustainable practices	Improved student engagement and ability to apply knowledge in real agricultural settings
4	Reinforce entrepreneurial and innovation-based learning	Launched Agri-Incubation Centre and entrepreneurship workshops in collaboration with rural enterprises	Students developed business ideas and showcased projects in agri-startup competitions

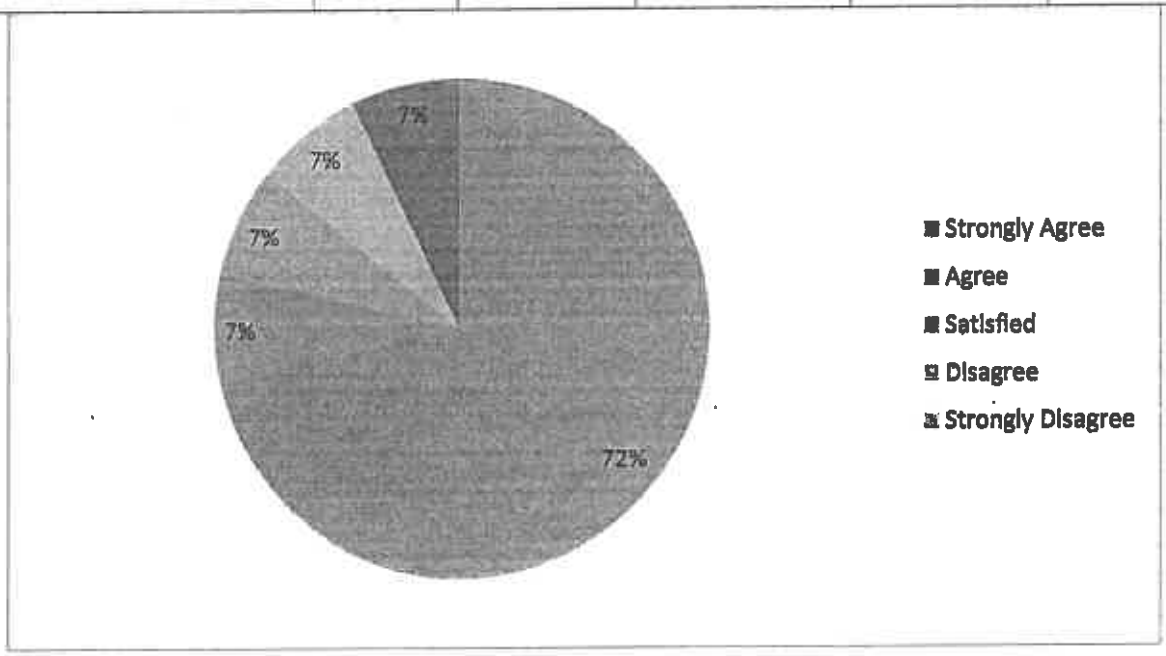
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Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

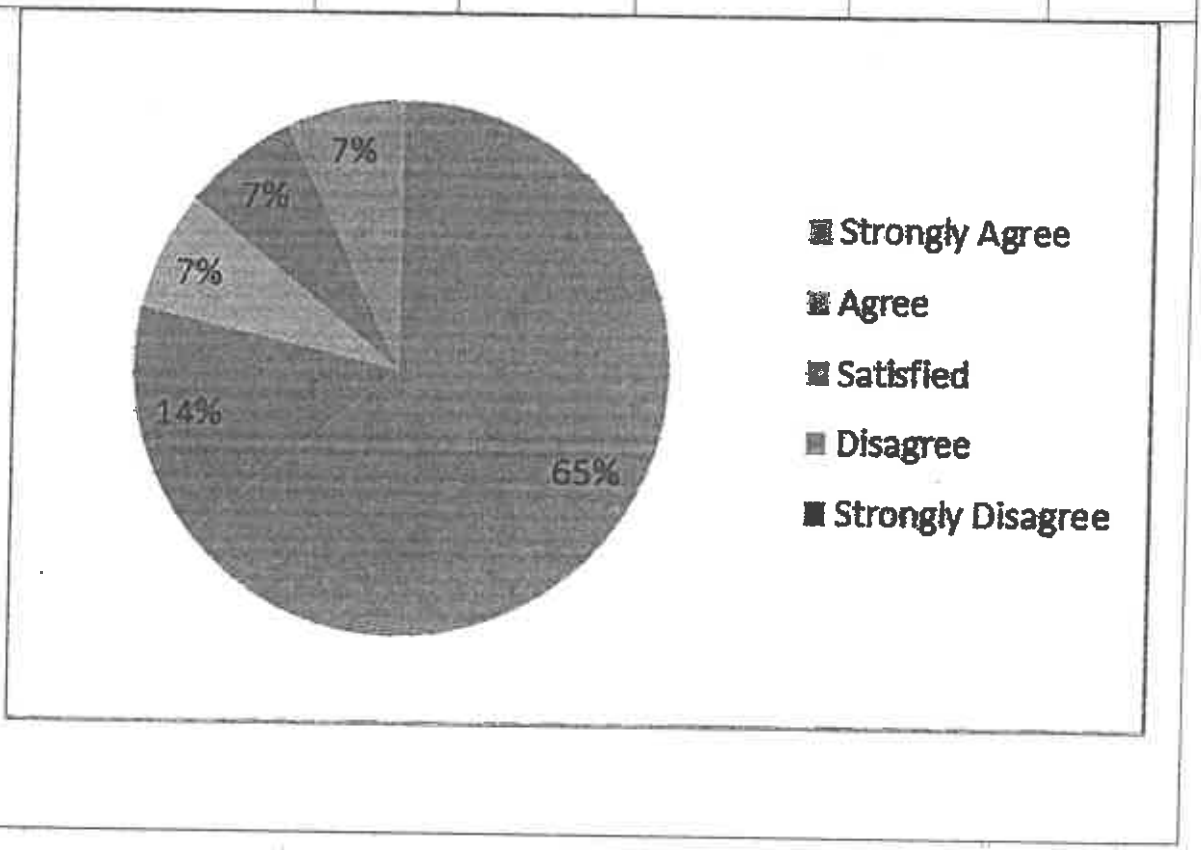
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	71.42	7.14	7.14	7.14	7.14



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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

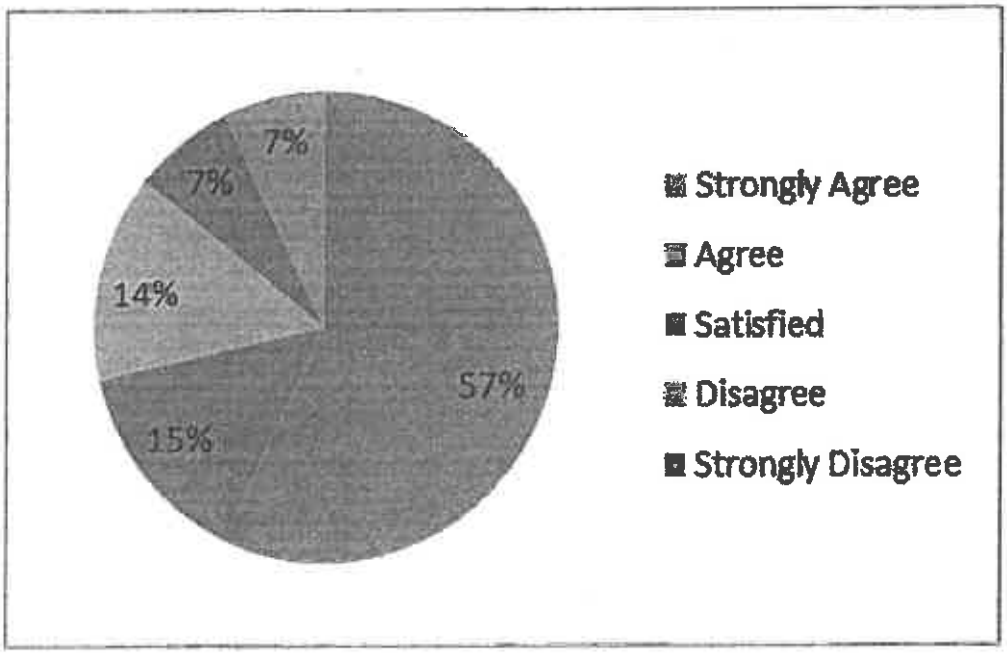
The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	64.2	14.28	7.14	7.14	7.14



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

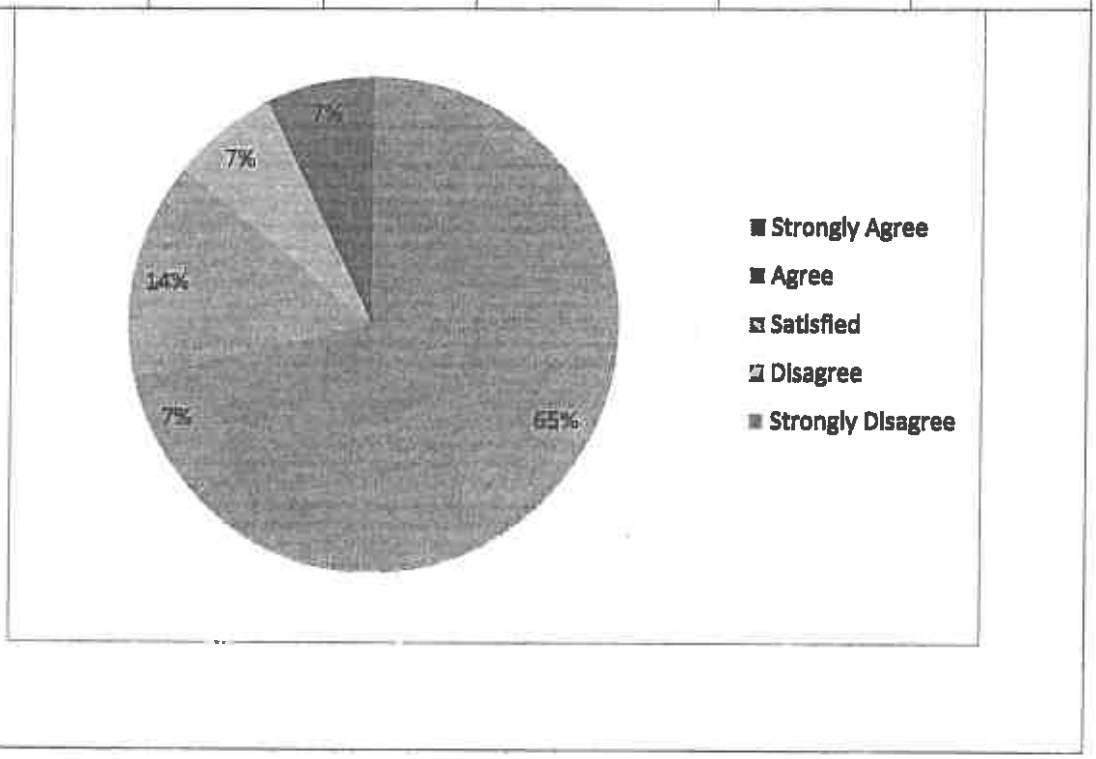
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.14	14.28	14.28	7.14	7.14



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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

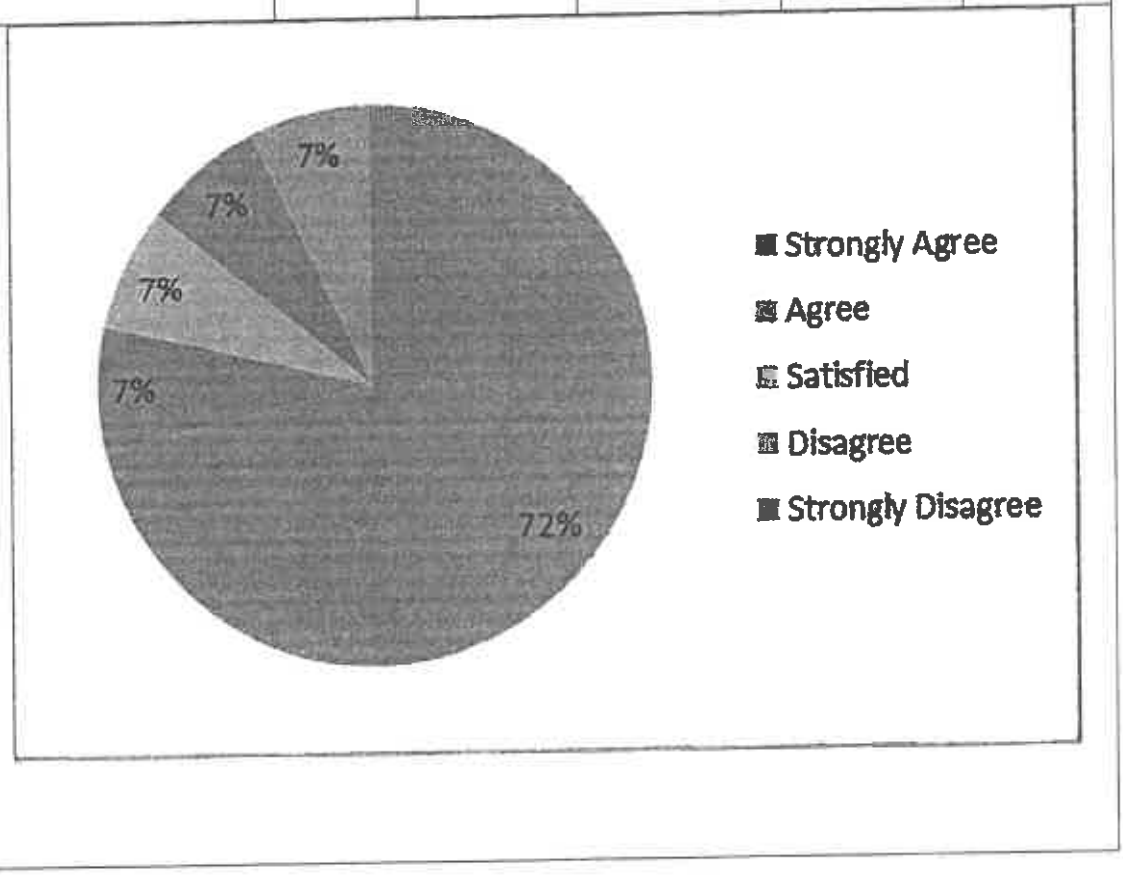
Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	64.20	7.14	14.28	7.14	7.14



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

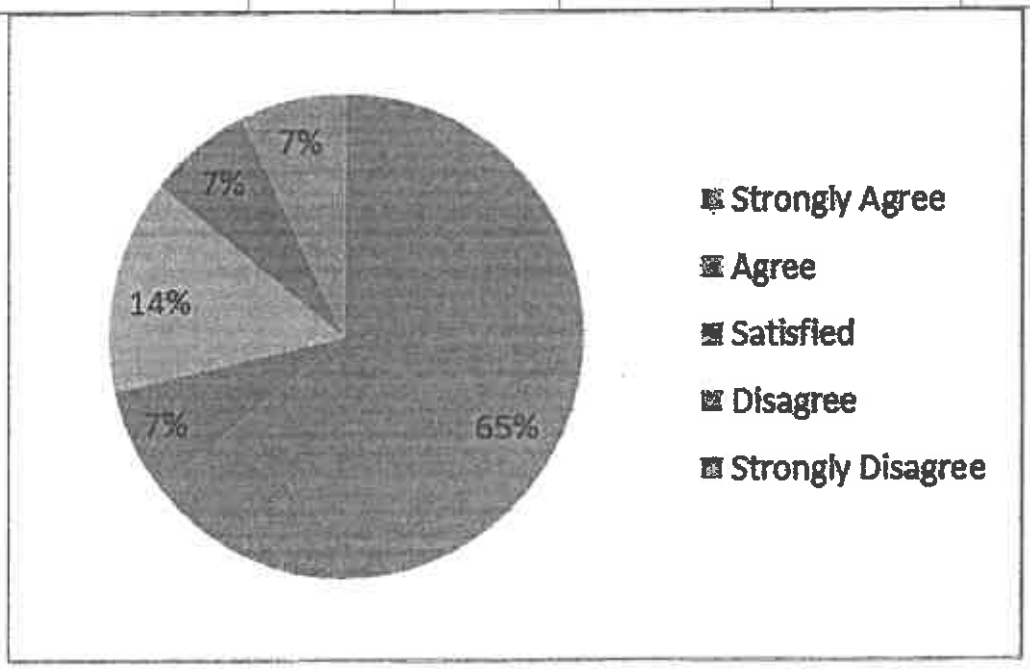
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	71.42	7.14	7.14	7.14	7.14



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Q.6. The curriculum provides ample knowledge for increased employability and to promote students for higher education.

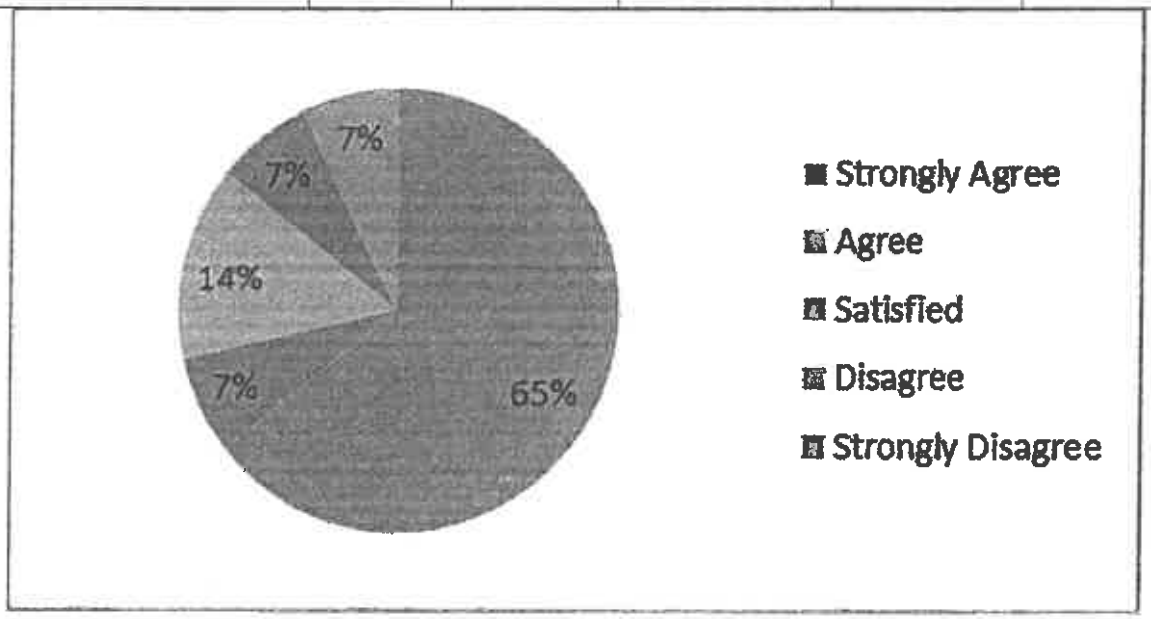
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	64.2	7.14	14.28	7.14	7.14



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Q.7. The curriculum has focus on personality development by presence of courses on human values and professional ethics

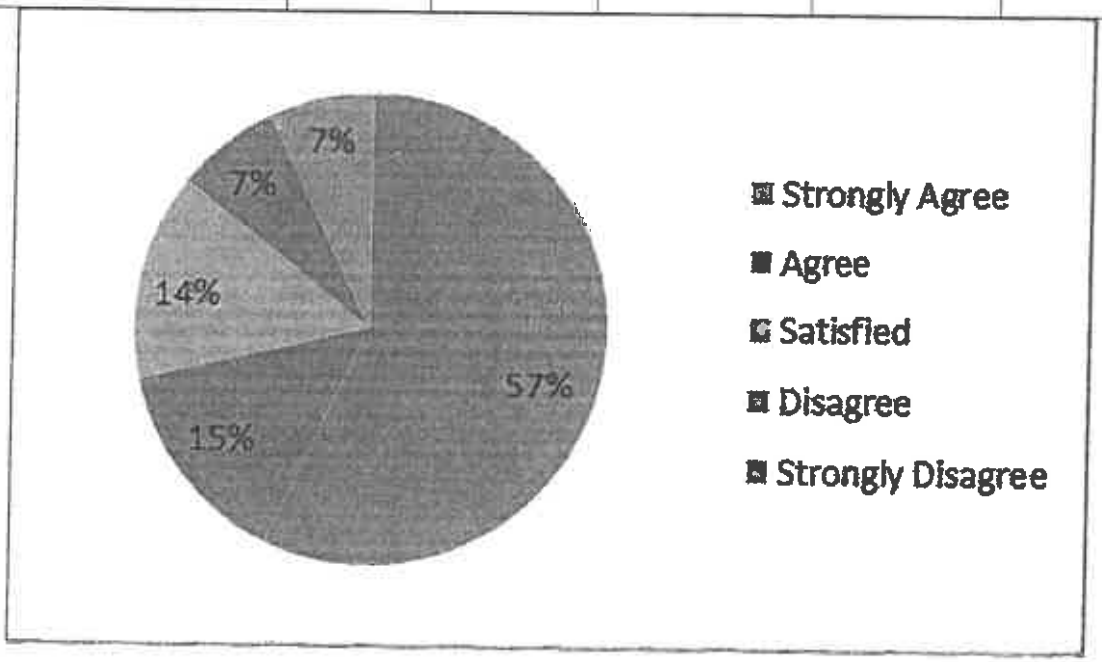
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	64.2	7.14	14.28	7.14	7.14



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

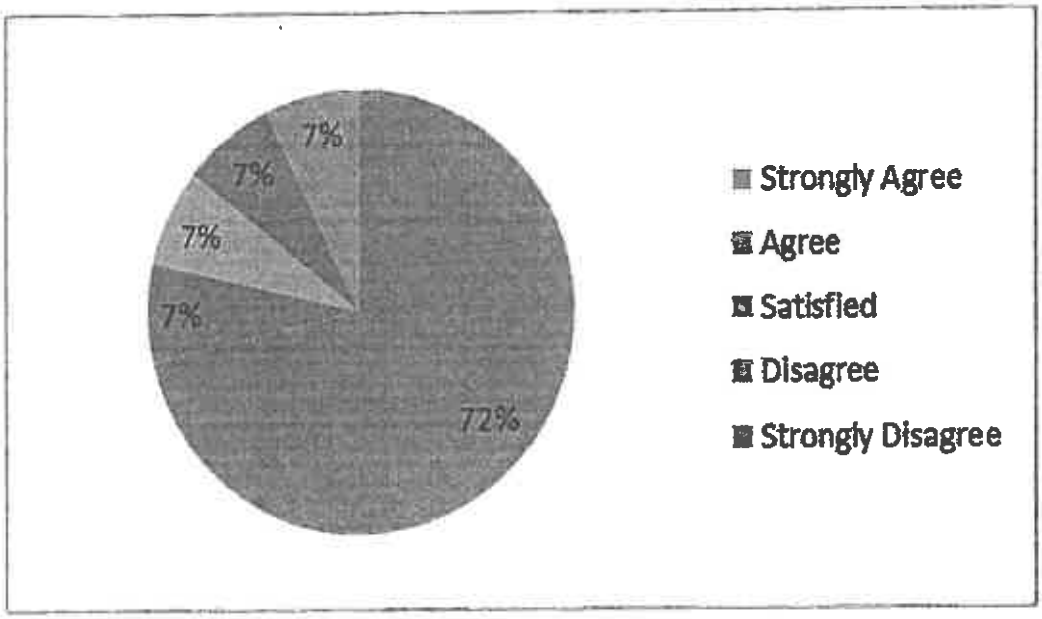
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.14	14.28	14.28	7.14	7.14



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	71.42	7.14	7.14	7.14	7.14



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School of Agriculture and Environmental Science(14)						
Total no. of Peer Academicians: 14		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	10.00	1.00	1.00	1.00	1.00
	Percentage	71.42	7.14	7.14	7.14	7.14
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	9.00	2.00	1.00	1.00	1.00
	Percentage	64.2	14.28	7.14	7.14	7.14
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses	No. of Academicians	8.00	2.00	2.00	1.00	1.00
	Percentage	57.14	14.28	14.28	7.14	7.14
Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	9.00	1.00	2.00	1.00	1.00
	Percentage	64.20	7.14	14.28	7.14	7.14
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	10	1	1	1	1
	Percentage	71.42	7.14	7.14	7.14	7.14
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	9.00	1.00	2.00	1.00	1.00
	Percentage	64.2	7.14	14.28	7.14	7.14
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	9	1	2	1	1
	Percentage	64.2	7.14	14.28	7.14	7.14
The curriculum is well	No. of	8	2	2	1	1

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organized and balanced for the programme with proper credit allocation.	Academicians					
	Percentage	57.14	14.28	14.28	7.14	7.14
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	10	1	1	1	1
	Percentage	71.42	7.14	7.14	7.14	7.14

Analysis of Feedback:

The peer feedback on the curriculum indicates a generally positive evaluation, with most aspects scoring in the mid-85% range, reflecting a well-rounded and structured program. The syllabus aligns well with the competencies expected from the program, and the sequence and organization of courses are seen as effective. There is strong recognition of the curriculum's multidisciplinary scope, the inclusion of a sufficient number of electives, and the emphasis on extra learning opportunities. Additionally, the curriculum provides solid support for improving entrepreneurial skills, industry readiness, employability, and higher education prospects. The focus on personality development, including courses on human values and ethics, is also acknowledged, though it scored similarly to the other areas, indicating a consistent but perhaps improvable approach. The balance between theory and application is well-regarded, ensuring a holistic student development experience. Overall, the curriculum is well-organized and balanced, though there may be room for slight enhancements to further enrich specific areas.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

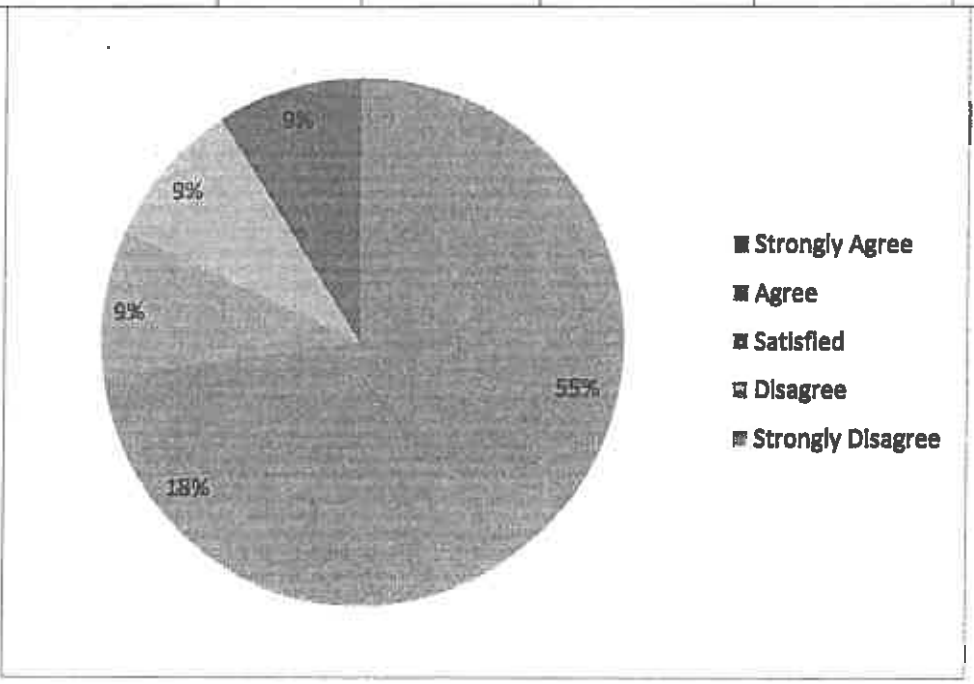
Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance focus on personality development and ethics education	Integrated more case-based discussions and field experiences into Human Values and Ethics courses, with a focus on agricultural ethics	Increased student engagement and reflection on ethical practices; positive feedback on the real-world applicability of ethics in agriculture
2	Expand multidisciplinary learning opportunities and elective courses	Added new electives in areas like Sustainable Agriculture, Environmental Policy, and Climate Change Adaptation; encouraged interdisciplinary collaborations	Broadened student exposure to diverse areas within agriculture and environmental sciences; increased elective course enrollment and cross-departmental learning
3	Strengthen self-learning opportunities and extra learning resources	Launched a dedicated online platform with access to research materials, case studies, and self-paced learning modules	Higher student participation in self-directed learning; improved independent research and study habits among students
4	Continue promoting entrepreneurial skills, industry readiness, and employability support	Partnered with agricultural startups and local farms for internships; hosted career development workshops and networking events	Improved industry connections and job placements; students reported higher satisfaction with career readiness and hands-on experiences

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Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

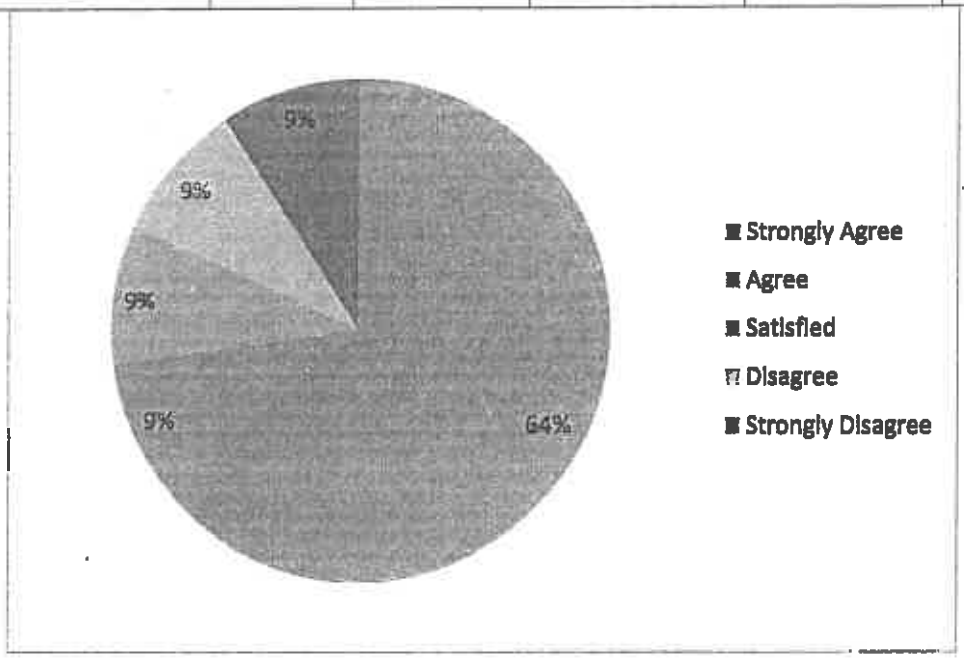
The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	18.18	9.09	9.09	9.09



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Q.2 The courses have adequate balance between theory and application for student's holistic development.

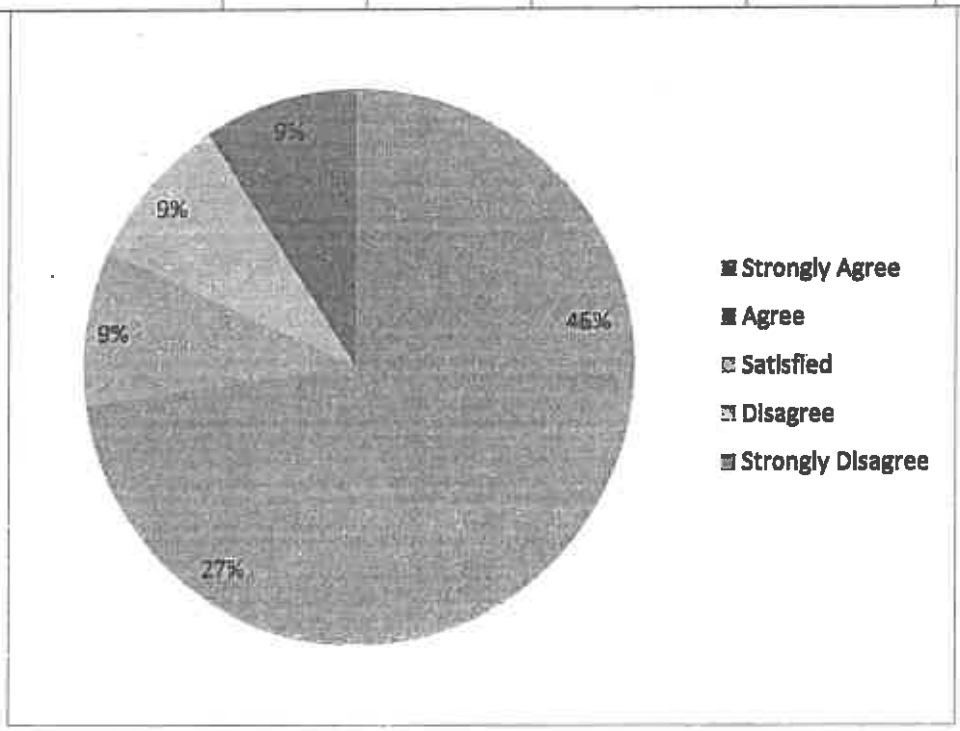
The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

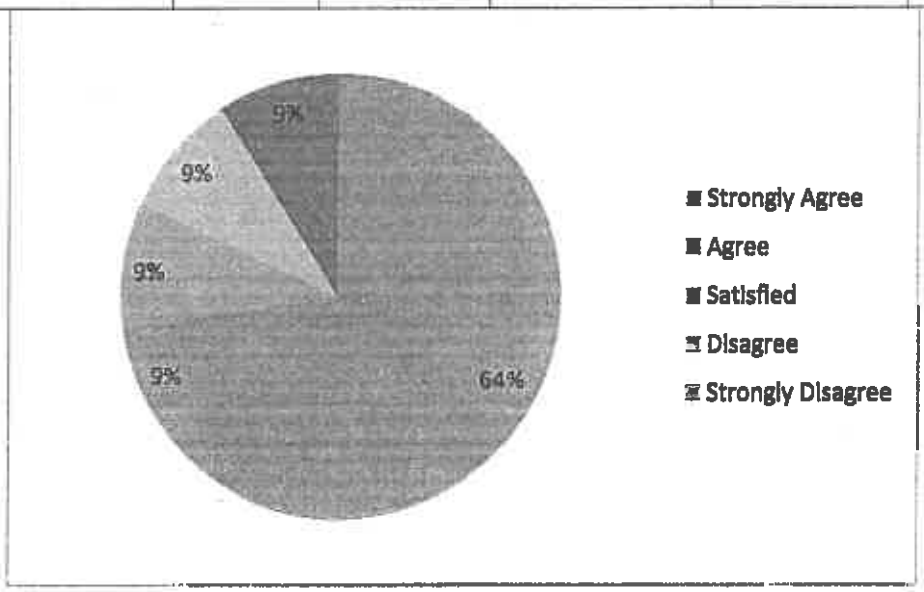
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09



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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

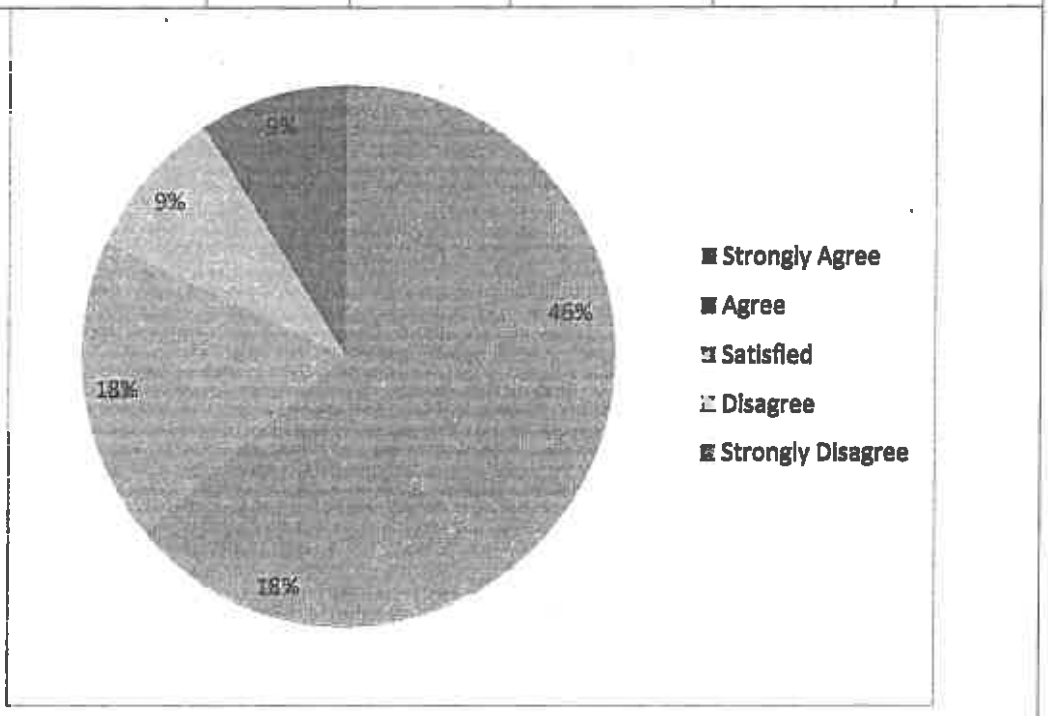
The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

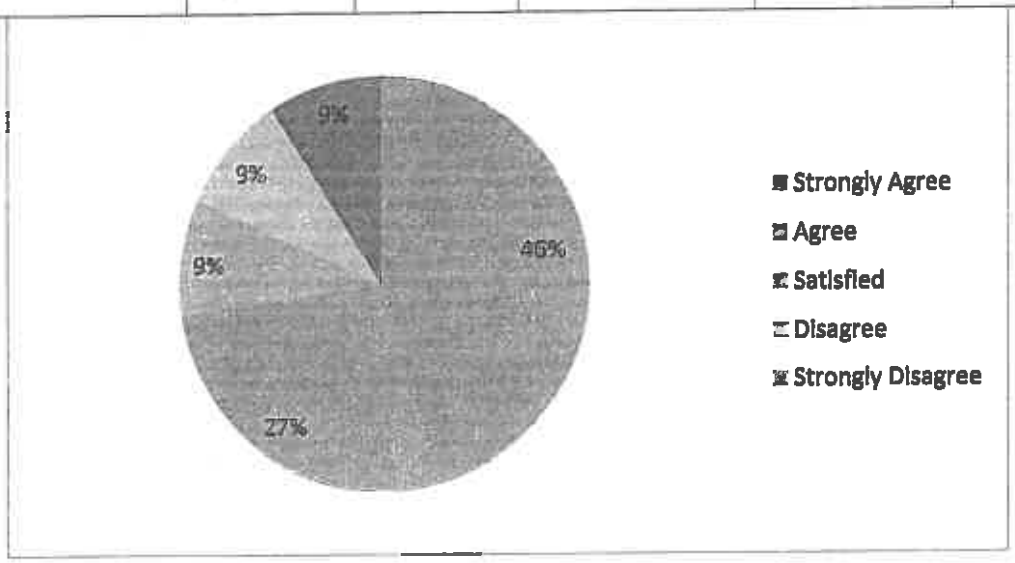
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	18.18	18.18	9.09	9.09



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

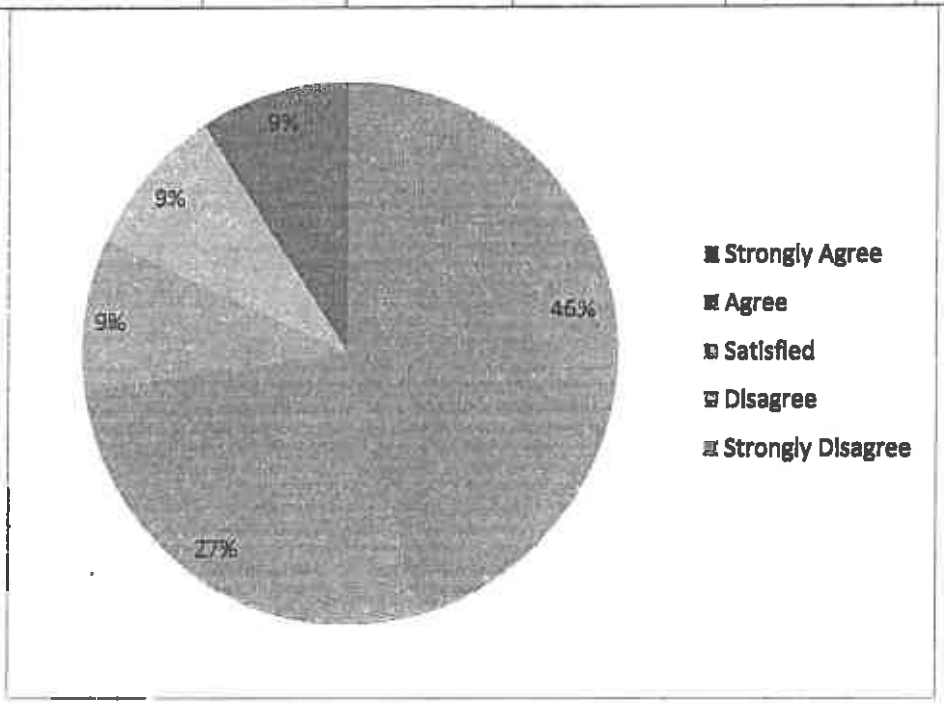
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09



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Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

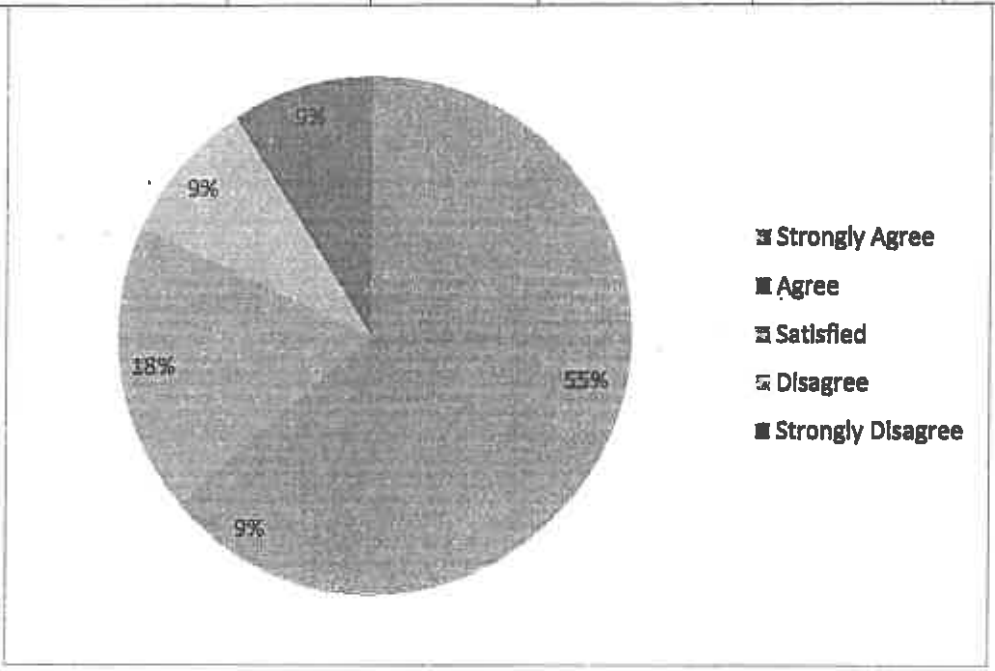
The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09



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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

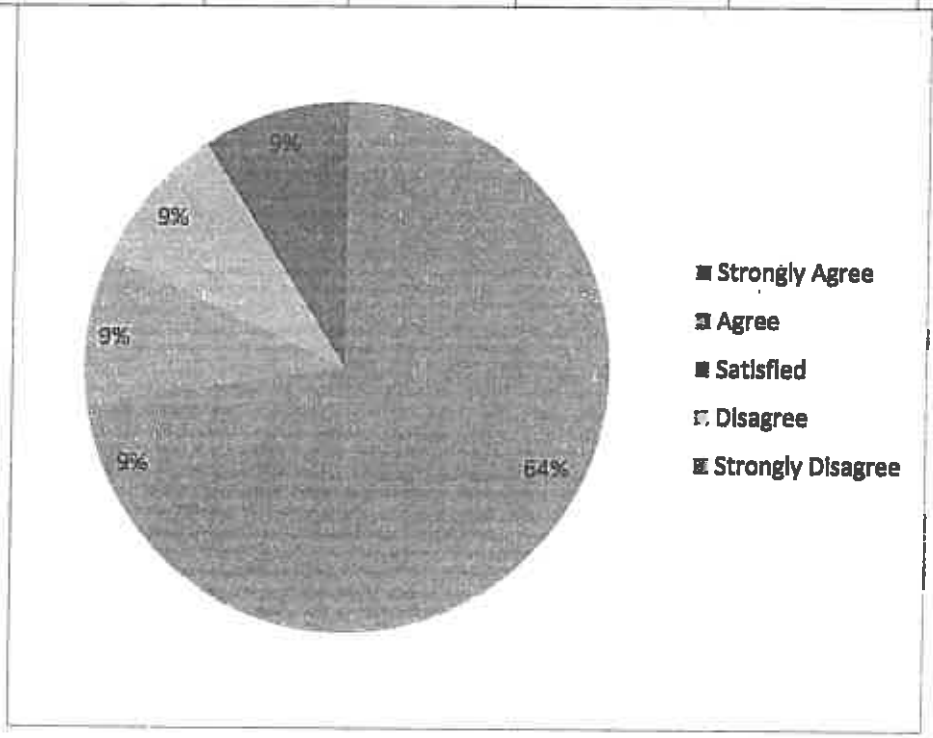
Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	9.09	18.18	9.09	9.09



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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09



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School of Agriculture & Environmental Sciences(11)

Total no. of Teachers : 11		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	6.00	2.00	1.00	1.00	1.00
	Percentage	54.55	18.18	9.09	9.09	9.09
The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	5.00	3.00	1.00	1.00	1.00
	Percentage	45.45	27.27	9.09	9.09	9.09
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	6.00	2.00	1.00	1.00	1.00
	Percentage	54.55	18.18	9.09	9.09	9.09
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
The curriculum provides	No. of	5.00	2.00	2.00	1.00	1.00

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ample knowledge for increased employability and to promote students for higher education.	Teachers					
	Percentage	45.45	18.18	18.18	9.09	9.09
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	5.00	3.00	1.00	1.00	1.00
	Percentage	45.45	27.27	9.09	9.09	9.09
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	6.00	1.00	2.00	1.00	1.00
	Percentage	54.55	9.09	18.18	9.09	9.09
The existing system for curriculum revision is found to be effective.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09

Analysis of Feedback:

Based on the teacher feedback, the curriculum has received a uniform satisfaction rating of 81.82% across all key parameters. Specifically, 81.82% of teachers agree that the curriculum is well organized and balanced with appropriate credit allocation, indicating a solid structural foundation. The same percentage (81.82%) also agree that there is an effective balance between theory and practical application, which supports the holistic development of students. Furthermore, 81.82% of respondents acknowledge that the curriculum has sufficient scope for multidisciplinary learning and offers a satisfactory range of elective courses.

An equal 81.82% of faculty members affirm that the inclusion of human values and professional ethics aids in personality development, while the curriculum's ability to build entrepreneurial skills and industry readiness also scores 81.82%. Additionally, the same percentage supports the curriculum's capacity to enhance employability and encourage students towards higher education goals.

In terms of societal relevance, 81.82% of teachers believe that the curriculum helps in improving problem-solving skills linked to both local and global challenges. Importantly, 81.82% feel they have adequate freedom to contribute their views in the design and development of the curriculum, and an equal number agree that the current system for curriculum revision is effective and responsive.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action taken	Outcome
1	Strengthen the integration of theory and practical application.	Increased the number of field-based practical sessions, lab work, and real-world project assignments related to agriculture and environmental sciences. Introduced collaborations with local farms, research centers, and environmental agencies for student engagement.	Students reported a more comprehensive understanding of concepts through hands-on learning. Faculty observed enhanced problem-solving skills and better retention of theoretical knowledge in practical contexts.
2	Expand the scope for multidisciplinary learning and electives.	Expanded elective courses to include topics such as sustainable agriculture, environmental law, and climate change mitigation. Introduced inter-departmental electives in collaboration with departments such as Environmental Science and Forestry.	Students appreciated the added flexibility and breadth of knowledge in related fields. The expanded electives allowed students to tailor their learning to various interdisciplinary areas, fostering a broader skill set.
3	Enhance entrepreneurial skills and industry readiness.	Developed a new course on agricultural entrepreneurship, focusing on agri-business, farm management, and sustainable agriculture technologies. Partnered with industry leaders to offer internships and mentorship opportunities.	Students gained a stronger entrepreneurial mindset and practical exposure to agri-business. Several students expressed interest in starting their own ventures or joining innovative agribusinesses after graduation.

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4	Strengthen the curriculum revision system to keep pace with emerging trends.	Established a regular feedback loop from students, faculty, and industry professionals. Introduced annual curriculum reviews, ensuring the integration of the latest research, technologies, and industry trends into course content.	The curriculum became more aligned with emerging trends in agriculture and environmental sciences, leading to a more relevant and future-ready academic program. Faculty and students reported higher satisfaction with the responsiveness of the curriculum.

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Annexure- 3 (Item BOS 18.4)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2021-2022)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102 Fundamentals of Geneties	External Examiner 1. Dr. S. K. Singh, Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr.AshvaniPanwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr.AyushBahuguna , Assistant Professor, (CCSR PG College, Muzaffarnagar)	7668586615 ayushbahuguna1995@gmail.com

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		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor (CCSR PG College, Muzaffarnagar)	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor (CCSR PG College, Muzaffarnagar)	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in

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		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
7)	BAG-114 Fundamentals	Internal Examiner	Cell No.+ 91-9412680870

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	of Entomology	1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor (CCSR PG College, Muzaffarnagar	+91-7988338378 rabeesh4700@gmail.com
		1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
9)	BAG-118 Communication Skills and Personality	1. Dr. Rabeesh Kumar Verma Assistant Professor (CCSR PG College, Muzaffarnagar	+91-7988338378 rabeesh4700@gmail.com
		2. Dr. L. B. Singh Professor ,	09450155766 dr.lbsingh@gmail.com

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	Development	SVBPUAT Meerut	
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+ 91-9411039192, 8630896418 Email: singhjp2005@gmail.com
		Internal Examiner 1 Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in

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12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1 Dr. Mahemdru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor (CCSR PG College, Muzaffarnagar)	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology for Fruit and Plantation Crops	External Examiner 1. Dr. Rakesh Kumar Singh Professor, (CCSR PG College, Muzaffarnagar)	9412113662 hahe1624@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com

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		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		Internal Examiner 1. Dr Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		2. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		Internal Examiner 1 Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
17)	BAG-216 Agricultural Marketing Trade &	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com

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	Prices		
		2. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		Internal Examiner 1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Professor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
19)	BAG-304 Protected Cultivation and Secondary Agriculture	External Examiner 1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		2. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com

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		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com

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		Mahavidhyalya	
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279

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			deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management, Production & Resource Economics	External Examiner 1. Dr. Adesh Kumar Assistant Professor SVBPUAT, Meerut	09412628586 adeshsingh29@rediffmail.com
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

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Signed by:

(Chairman, BOS)

(Dean Academies)

(Vice Chancellor)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 13.06.2022

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 23.06.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 18th BOS Meeting held on 22 Dec. 2021 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. **Approval of modification in the syllabus of B.Sc. Ag. Hons. 1st semester.**
3. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec. 2022.**
4. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences * SHOBHIT UNIVERSITY GANGOH (U.P.) * H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 13.06.2022

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 23.06.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH ★ H.o.D. ★

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 13.06.2022

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 23.06.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture * H.o.D. *

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 23.06.2022

Attendance Sheet (19th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C. S. Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	Vaseem

Chairman

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 23.06.2022

Minutes of the Meeting of Board of Studies

19th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 23rd June 2022 at 10:00 am onwards. The following members were present in the meeting:

1. Dr. Shivani — Chairperson
   Asstt. Professor & Head
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
2. Dr. D. V. Singh — External expert
   Principal
   Vidyadeep Degree College
   Bilaspur Saharanpur
3. Dr. C. S. Singh — External Expert
   Associate Professor
   Gochar Mahavidyalaya
   Rampur Maniharan Saharanpur
4. Dr. Vikas Kumar — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
5. Dr. Mohd. Vaseem — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 19.1: Approval of the Minutes of the 18th BOS Meeting held on 22 Dec. 2021
Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 19.2: Approval of modification in the syllabus of B.Sc. Ag. Hons. 1st semester {Annexure-2}

- **BOS members approved the changes in syllabus of BAG-103 & BAG-111.**

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Item BOS 19.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec. 2022** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 19.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Rural Sciences SHOBHIT UNIVERSITY GANGOH H.o.D.

(Chairman, BOS)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academics)

(Vice Chancellor)

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Annexure- 1 (Item BOS 19.1)

School of Agriculture & Environmental Sciences

Date: 22.12.2021

Minutes of the Meeting of Board of Studies

18th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 22th Dec. 2021 at 10:00 am onwards. The following members were present in the meeting:

6.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
7.	Prof.(Dr.) J P Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External expert
8.	Prof.(Dr.) Rajbir Singh Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Vikas Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Dr. Mohd. Vaseem Asstt. Professor School of Business Studies & Entrepreneurship Shobhit University Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 18.1: Approval of the Minutes of the 17th BOS Meeting held on 28 June 2021
Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 18.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 18.3: Analysis of the feedback on curriculum from stakeholders:

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- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 18.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2022.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 18.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR (Academics)
Saharanpur (U.P.)

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Annexure- 2 (Item BOS 19.2)

Shobhit University, Gangoh

(Established by UP Shobhit University Act No. 3, 2012)

School of Agriculture And Environmental Sciences

Ordinances, Regulations & Syllabus

For

Bachelor of Science in Agriculture (B.Sc.) Four Year Programme
Semester Pattern
(w.e.f. session 2013-14)

Approved and adopted in the year 2023 (22nd Meeting of the Board of Studies)

Shobhit University
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Programme Educational Objectives (PEOs)

PEO 1 Foundational Knowledge: Graduates will possess a strong understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural economics, enabling them to address challenges in the agricultural sector.

PEO 2 Practical Skills: Graduates will develop practical skills in modern agricultural practices, including crop production, pest management, and sustainable farming techniques, allowing them to effectively contribute to agricultural productivity.

PEO 3 Research and Innovation: Graduates will be equipped to engage in research and innovation, utilizing scientific methods to solve agricultural problems and contribute to advancements in the field.

PEO 4 Sustainability and Environmental Stewardship: Graduates will understand the principles of sustainable agriculture and environmental conservation, promoting practices that ensure food security while preserving natural resources.

PEO 5 Communication and Leadership: Graduates will possess effective communication and leadership skills, enabling them to work collaboratively in diverse teams and to advocate for agricultural development and policy changes.

PEO 6 Lifelong Learning: Graduates will be prepared for lifelong learning and professional development, adapting to emerging trends and technologies in agriculture to remain relevant in their careers.

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Programme Specific Objectives (PSO's)

PSO 1 To impart a strong foundation in agricultural science, including plant biology, soil science, and animal husbandry.

PSO 2 To develop practical skills through hands-on training in farming techniques, crop management, and animal care.

PSO 3 To encourage students to engage in research and innovation to address contemporary agricultural challenges, such as food security and sustainable farming.

PSO 4 To promote sustainable agricultural practices that protect the environment and enhance productivity.

PSO5 To familiarize students with the latest agricultural technologies, including precision farming, biotechnology, and data analytics.

PSO6 To provide insights into agricultural economics, marketing, and policy, enabling students to make informed decisions in the agricultural sector.

PSO7 To develop critical thinking and problem-solving skills necessary for effective decision-making in agriculture.

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Programme Outcome Objectives (POO's)

POO 1 Knowledge Application: Demonstrate a comprehensive understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural engineering.

POO 2 Research Skills: Conduct research using scientific methods, including data collection, analysis, and interpretation, to solve agricultural problems.

POO 3 Sustainable Practices: Promote sustainable agricultural practices that enhance productivity while preserving environmental health and biodiversity.

POO 4 Technical Proficiency: Utilize modern agricultural technologies and tools for efficient farming practices, including precision agriculture and biotechnology.

POO 5 Critical Thinking: Analyze and evaluate agricultural policies, practices, and issues critically, fostering informed decision-making.

POO 6 Communication Skills: Communicate effectively, both verbally and in writing, to diverse audiences, including farmers, policymakers, and the general public.

POO 7 Teamwork and Leadership: Work collaboratively in teams, demonstrating leadership skills in agricultural projects and initiatives.

POO 8 Economic Understanding: Understand the economic principles related to agricultural production, marketing, and management.

POO 9 Ethics and Responsibility: Uphold ethical standards in agricultural practices, considering social responsibilities and the impact on communities.

POO 10 Lifelong Learning: Foster a commitment to continuous learning and professional development in the agricultural sector.

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Course Structure

Ordinance and Regulations

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B.Sc. Ag. Hons. I Semester Syllabus

Core Course (CC-1)

BAG-103: Fundamentals of Plant Biochemistry and Biotechnology

CO: COURSE OBJECTIVE

CO-1 Understand Plant Biochemical Processes: Develop a foundational understanding of the biochemical processes and pathways that drive plant growth, development, and metabolism.

CO-2 Explore Plant Metabolism: Analyze the roles of primary and secondary metabolites in plants, including their synthesis, regulation, and functional significance.

CO-3 Study Enzymatic Mechanisms: Learn the principles of enzymatic reactions and their applications in regulating plant physiological and biochemical processes.

CO-4 Integrate Biochemistry and Biotechnology: Explore the intersection of plant biochemistry with modern biotechnological tools for crop improvement, disease resistance, and sustainable agriculture.

CO-5 Apply Molecular Biology Tools: Gain proficiency in molecular techniques such as gene cloning, CRISPR, and recombinant DNA technology for studying and manipulating plant systems.

CO-6 Evaluate Plant Stress Responses: Understand biochemical mechanisms plants use to respond and adapt to biotic and abiotic stresses, and how these can be managed through biotechnology.

CO-7 Promote Sustainable Practices: Apply biotechnological advances to improve agricultural productivity, reduce environmental impact, and address global challenges like food security and climate change.

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COURSE CONTENTS

Unit- I:

Importance of Biochemistry. Properties of Water, pH and Buffer. Carbohydrate: Importance and classification. Structures of Monosaccharides, Reducing and oxidizing properties of Monosaccharides, Mutarotation; Structure of Disaccharides and Poly saccharides. Lipid: Importance and classification; Structures and properties of fatty acids, storage lipids and membrane lipids.

Unit- II:

Proteins: Importance of proteins and classification; Structures, titration and zwitterions natureof amino acids; Structural organization of proteins. Enzymes: General properties; Classification; Mechanism of action; Michaelis&Menten and Line Weaver Burk equation & plots; Introduction to allosteric enzymes. Nucleic acids: Importance and classification; Structure of Nucleotides, A, B & Z DNA; RNA: Types and Secondary & Tertiary structure.

Unit- III:

Metabolism of carbohydrates: Glycolysis, TCA cycle, Glyoxylate cycle, Electron transport chain. Metabolism of lipids: Beta oxidation, Biosynthesis of fatty acids.

Unit- IV:

Concepts and applications of plant biotechnology: Scope, organ culture, embryo culture, cell suspension culture, callus culture, anther culture, pollen culture and ovule culture and their applications; Micro-propagation methods; organogenesis and embryogenesis, Synthetic seeds and their significance; Embryo rescue and its significance; somatic hybridization and cybrids; Somaclonal variation and its use in crop improvement; cryo-preservation.

Unit- V:

Introduction to recombinant DNA methods: physical (Gene gun method), chemical (PEG mediated) and Agrobacterium mediated gene transfer methods; Transgenics and its importance in crop improvement; PCR techniques and its applications; RFLP, RAPD, SSR; Marker Assisted breeding in crop improvement; Biotechnology regulations.

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Practical:

Preparation of solution, pH & buffers, Qualitative tests of carbohydrates and amino acids. Quantitative estimation of glucose/ proteins. Titration methods for estimation of amino acids/lipids, Effect of pH, temperature and substrate concentration on enzyme action, Paper chromatography/ TLC demonstration for separation of amino acids/ Monosaccharides. Sterilization techniques. Composition of various tissue culture media and preparation of stock solutions for MS nutrient medium. Callus induction from various explants. Micro-propagation, hardening and acclimatization. Demonstration on isolation of DNA. Demonstration of gel electrophoresis techniques and DNA finger printing.

Suggested Readings

- Fundamentals of Plant Biochemistry and Biotechnology"
  Authors: Gopal Shukla and R.K. Trivedi
- "Plant Biochemistry and Biotechnology"
  Author: H.N. Murthy
- "Plant Biochemistry"
  Authors: P.M. Dey and J.B. Harborne
- "Plant Biotechnology and Genetics: Principles, Techniques and Applications"
  Author: C. Neal Stewart Jr.

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B.Sc. Ag. Hons. I Semester Syllabus

Core Course (CC-1)

BAG-111: Fundamentals of Agronomy

CO: COURSE OBJECTIVE

CO-1 Understanding Crop Growth and Development: Learn about the life cycle of crops and factors influencing their growth. Study the physiological and morphological characteristics of crops.

CO-2 Basics of Soil Science: Understand soil properties, classification, and its role in crop production. Learn about soil fertility, nutrient management, and amendments.

CO-3 Crop Management Practices: Gain knowledge about crop planting methods, spacing, and cropping systems. Understand weed control, irrigation, and pest management practices.

CO-4 Climate and Agriculture: Explore the impact of weather and climate on crop production. Study agro climatic zones and their significance in crop planning.

CO-5 Sustainable Agriculture: Learn principles of sustainable land use, conservation practices, and integrated nutrient management. Focus on resource efficiency and minimizing environmental impact.

CO-7 Introduction to Agronomic Tools and Techniques: Understand the role of technology and tools in modern agronomy. Familiarize with concepts like precision agriculture and remote sensing.

CO-8 Crop Improvement: Basics of crop breeding and genetic enhancement for better yields and resilience.

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COURSE CONTENTS

Unit- I:

- Agronomy and its scope, seeds and sowing, tillage and tilth, crop density and geometry.

Unit- II:

- Crop nutrition, manures and fertilizers, nutrient use efficiency, water resources, soil- plant-water relationship, crop water requirement, water use efficiency, irrigation- scheduling criteria and methods, quality of irrigation water, logging.

Unit- III:

- Weeds- importance, classification, crop weed competition, concepts of weed management- principles and methods, herbicides- classification, selectivity and resistance, allelopathy.

Unit- IV:

- Growth and development of crops, factors affecting growth and development, plant ideotypes, crop rotation and its principles, adaptation and distribution of crops, crop management technologies in problematic areas, harvesting and threshing of crops.

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Practical:

Identification of crops, seeds, fertilizers, pesticides and tillage implements, study of agro- climatic zones of India, Identification of weeds in crops, Methods of herbicide and fertilizer application, Study of yield contributing characters and yield estimation, Seed germination and viability test, Numerical exercises on fertilizer requirement, plant population, herbicides and water requirement, Use of tillage implements-reversible plough, one way plough, harrow, leveler, seed drill, Study of soil moisture measuring devices, Measurement of field capacity, bulk density and infiltration rate, Measurement of irrigation water.

Suggested Readings

- "Fundamentals of Agronomy"
  Author: A.S. Basra
- "Fundamentals of Agronomy"
  Author: Yellamanda Reddy T. & Sankara Reddi G.H.
- "Principles of Agronomy" *(not exactly titled "Fundamentals", but very similar)*
  Authors: T.Y. Reddy and G.H.S. Reddi

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Annexure- 3 (Item BOS 19.3)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2022-2023)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in

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		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor, GMV Rampur	9675000234 amit.tomar371@gmail.com
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com

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		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner	928609396

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		1. Dr. Vishvash Chand	vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in

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		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	969041235080905063 71 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Crop Production	External Examiner	8923971354 singhveer@gmail.com

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	Technology – I *(Kharif Crops)* (BAG-201)	1. Dr. Dharmveer Singh Associate Professor GMV Rampur	
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar	9675000234 amit.kumar@gmail.com

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		Assistant Professor GMV Rampur	
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics (BAG-207)	External Examiner 1. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@ shobhituniversity.ac.in
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum	9557471931 asheeshmalik.9@gmail.com

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		University Roorki	
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and Disaster	External Examiner 1. Dr. Shiva	8937877339 shiva@shobhituniversity.ac.in

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	Management (BAG-213)	Associate Professor SUM	
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com

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		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.co

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		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr.Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University Roorkee	9557471931 asheeshmalik.9@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com

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	309)	2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. KamleshShukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. DeepaSaini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in

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8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsing2006@gmail.com

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		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Neeraj Kumar	9690412350 neerajmandhar123@gmail.com

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academies)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 12.12.2022

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 22.12.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 19th BOS Meeting held on 23 June 2022 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report.
3. Analysis of the feedback on curriculum from stakeholders.
4. **Approval of modification in the syllabus of B.Sc. Ag. Hons. 2nd Sem.**
5. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2023.**
6. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University, Gangoh (Saharanpur)

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 12.12.2022

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 22.12.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm Regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 12.12.2022

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 22.12.2022
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 22.12.2022

Attendance Sheet (20th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C..S. Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	

Chairman

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 22.12.2022

Minutes of the Meeting of Board of Studies

20th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 22nd Dec. 2022 at 10:00 am onwards. The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
3.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 20.1: Approval of the Minutes of the 19th BOS Meeting held on 23 June 2022

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Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 20.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 20.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 20.4: Approval of modification in the syllabus of B.Sc. Ag. Hons. 2nd Sem {Annexure-3}

- **BOS members approved the changes in syllabus of BAG-102 & BAG-112 in 2nd semester of B. Sc. Agri. Hons.**

Item BOS 20.5: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2023.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-4}

Item BOS 20.6: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Rural Development
UNIVERSITY GANGOH
H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academics)

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Annexure- 1 (Item BOS 20.1)

School of Agriculture & Environmental Sciences

Date: 23.06.2022

Minutes of the Meeting of Board of Studies

19th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 23rd June 2022 at 10:00 am onwards. The following members were present in the meeting:

6. Dr. Shivani — Chairperson
   Asstt. Professor & Head
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh

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7.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
8.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Dr. Mohd. Vaseem Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 19.1: Approval of the Minutes of the 18th BOS Meeting held on 22 Dec. 2021
Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 19.2: Approval of modification in the syllabus of B.Sc. Ag. Hons. 1st semester {Annexure-2}

- **BOS members approved the changes in syllabus of BAG-103 & BAG-111.**

Item BOS 19.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. for session **July to Dec. 2022** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 19.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

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The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
(Dean Academies)
Saharanpur (U.P.)

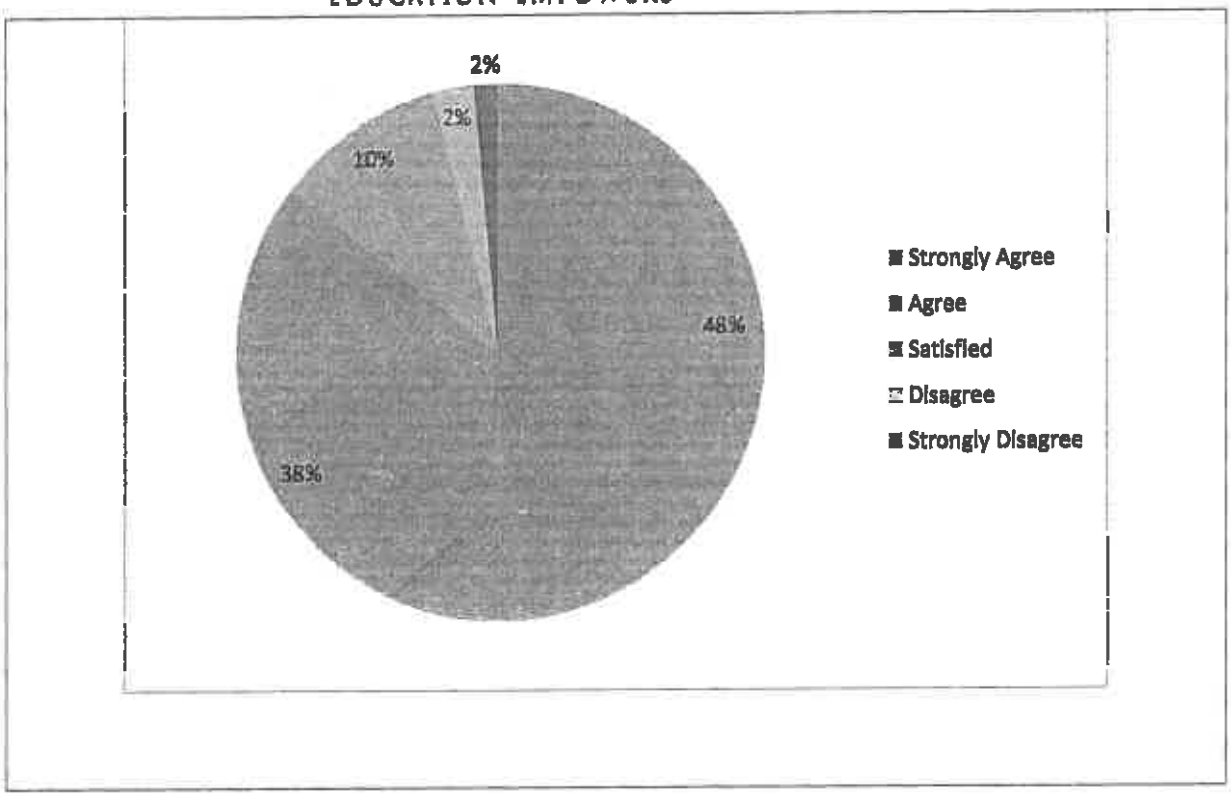
Annexure- 2 (Item BOS 20.2)

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.09324	37.61905	10.47619	2.5	1.5

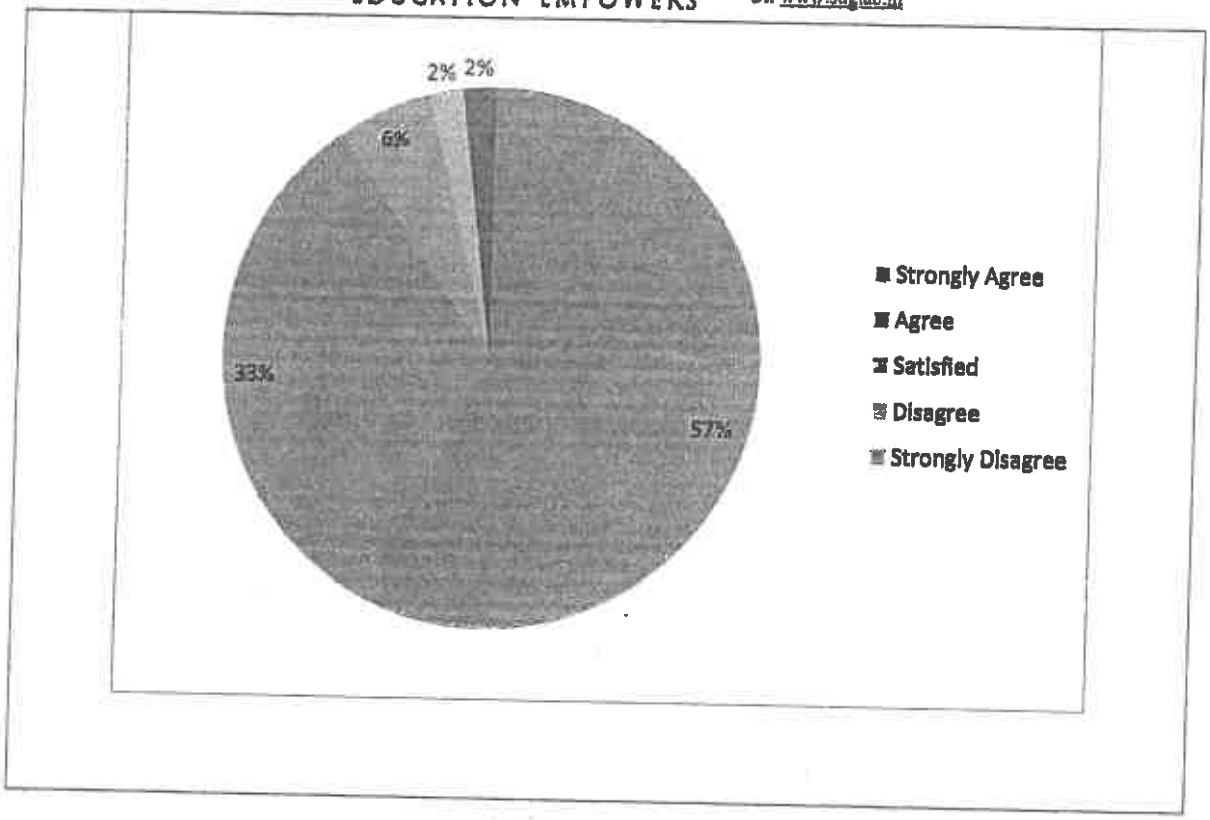
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Q.2. How do you rate the course outcomes and relevance to the course content?

Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.61905	32.85714	5.714286	2	2

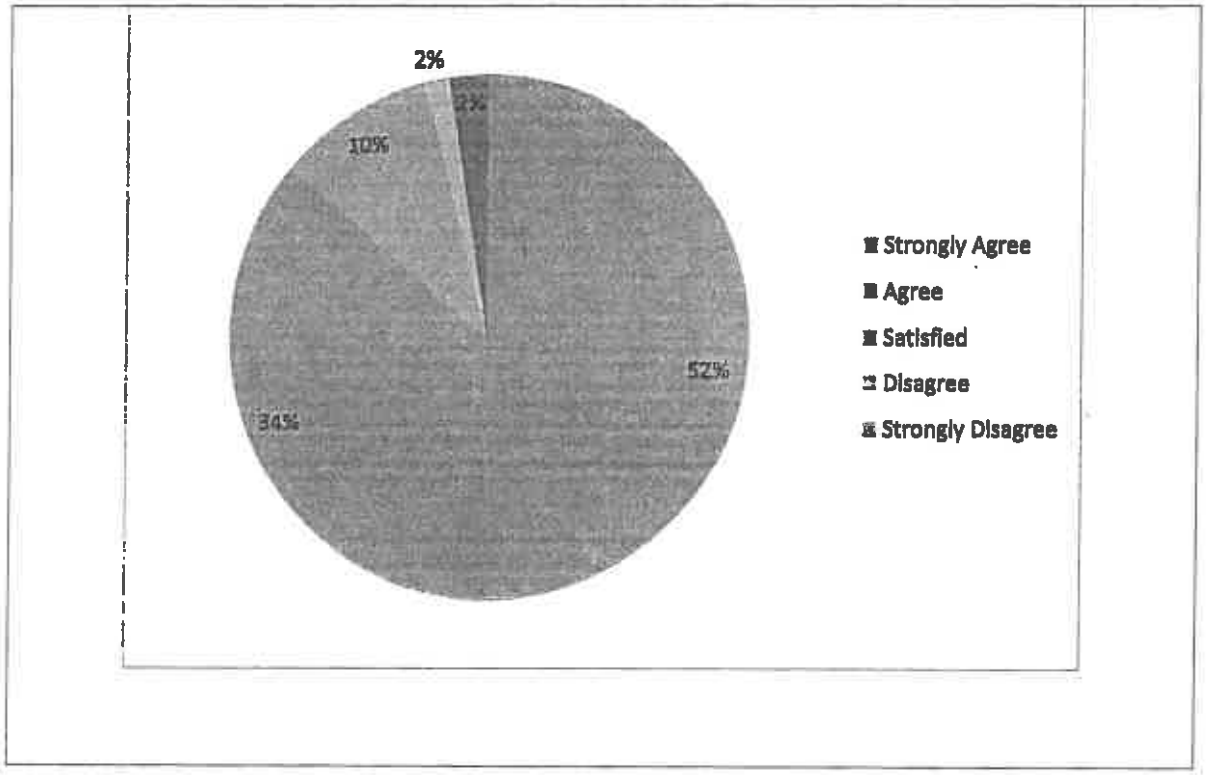
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Q.3. How do you rate the sequence of units in the courses?

Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.38095	33.80952	10	1.5	2.5

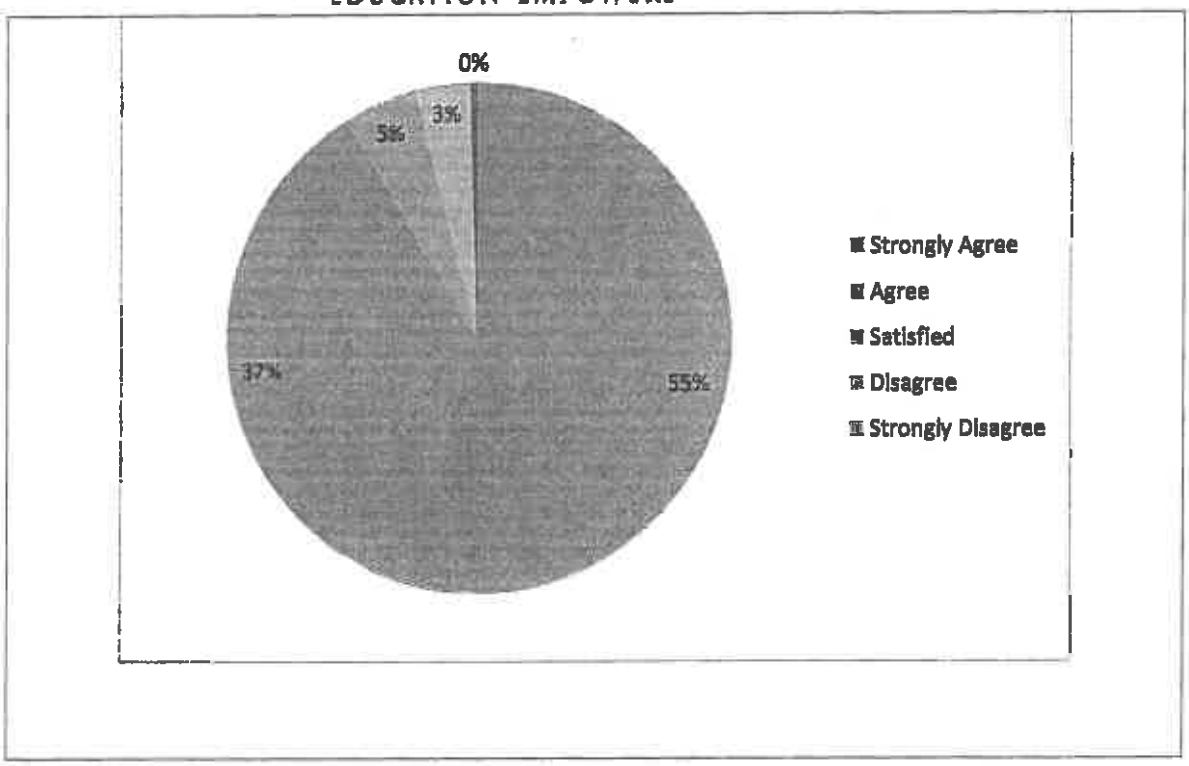
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Q.4. How do you rate the credits allotted to individual courses?

Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.7619	36.66667	4.761905	3.5	0.5

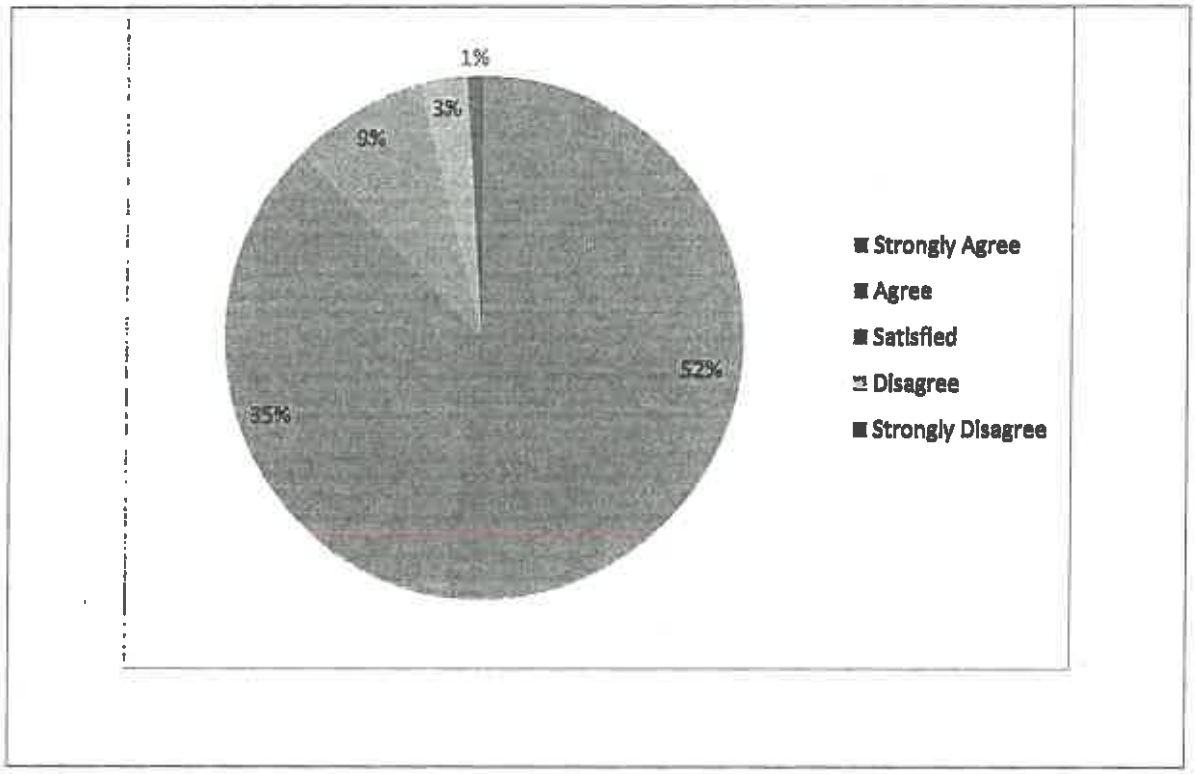
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Q.5. Does the curriculum focus on employability/career orientation?

Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.38095	35.2381	8.571429	3	1

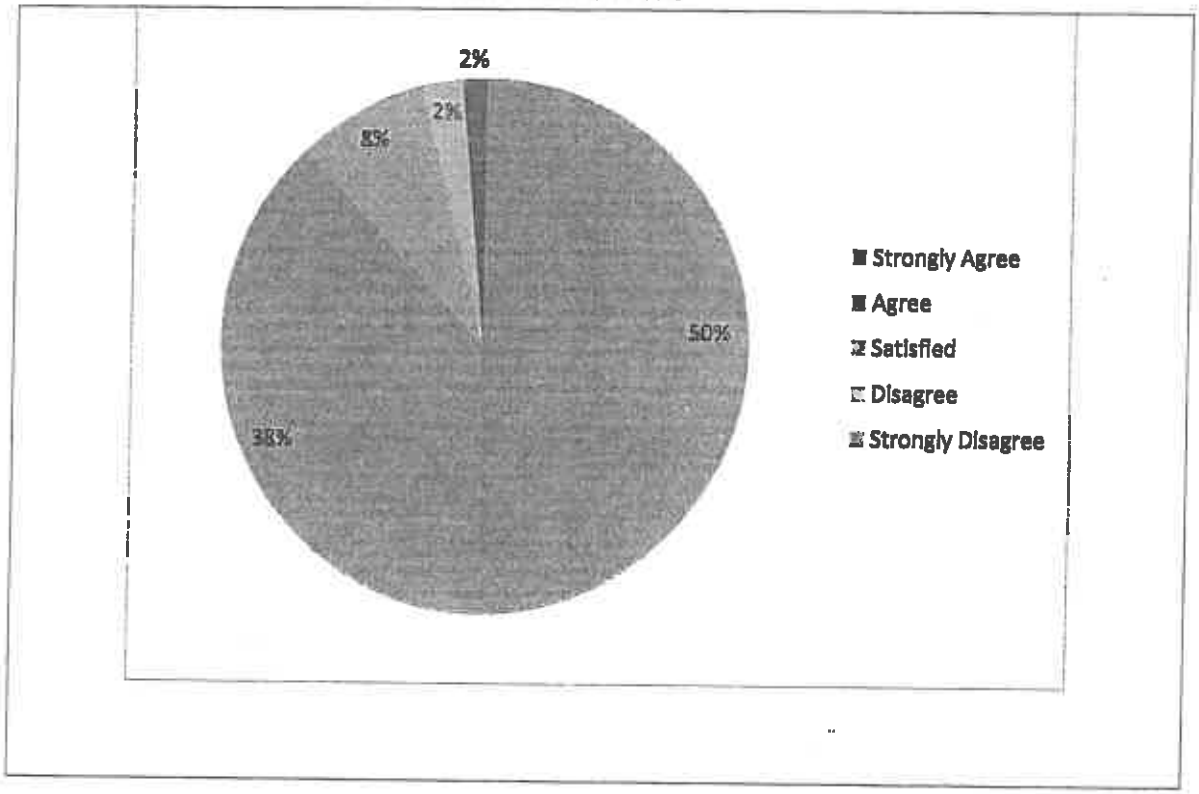
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Q.6. Does the curriculum focus on skill development/entrepreneurship?

Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	38.09524	8.095238	2.5	1.5

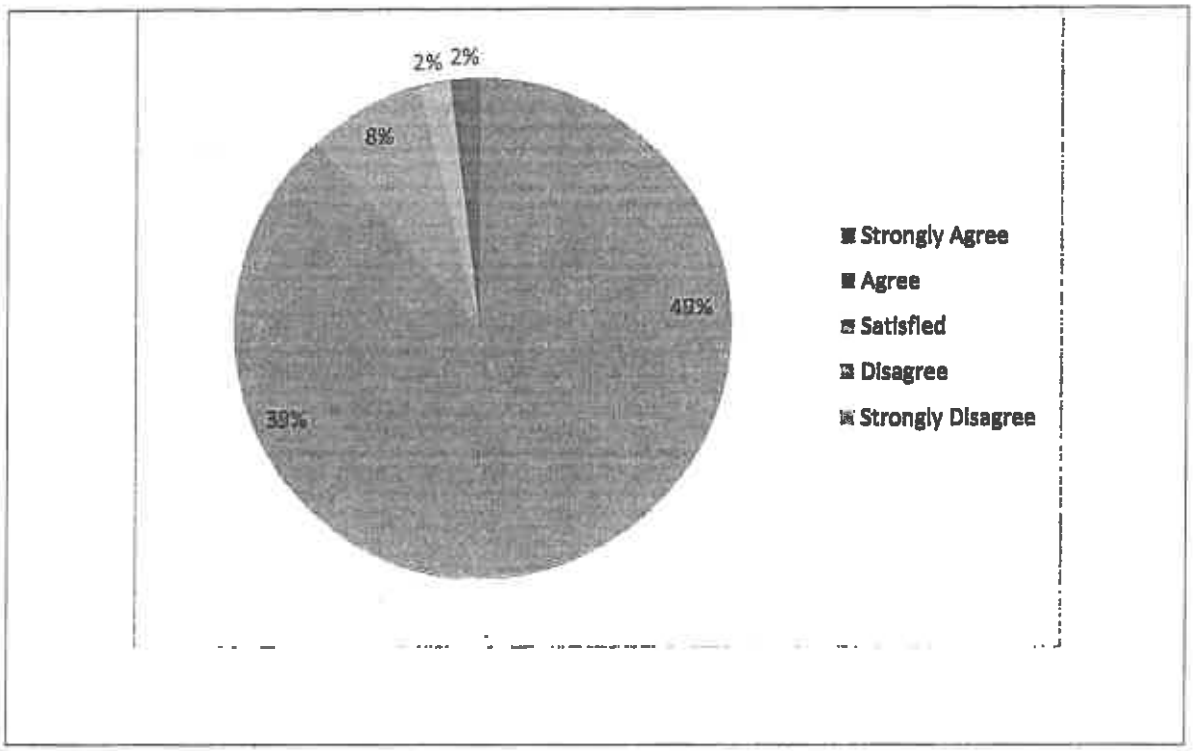
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Q.7. Does the curriculum have satisfactory number of elective courses?

Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.04762	39.52381	7.619048	2	2

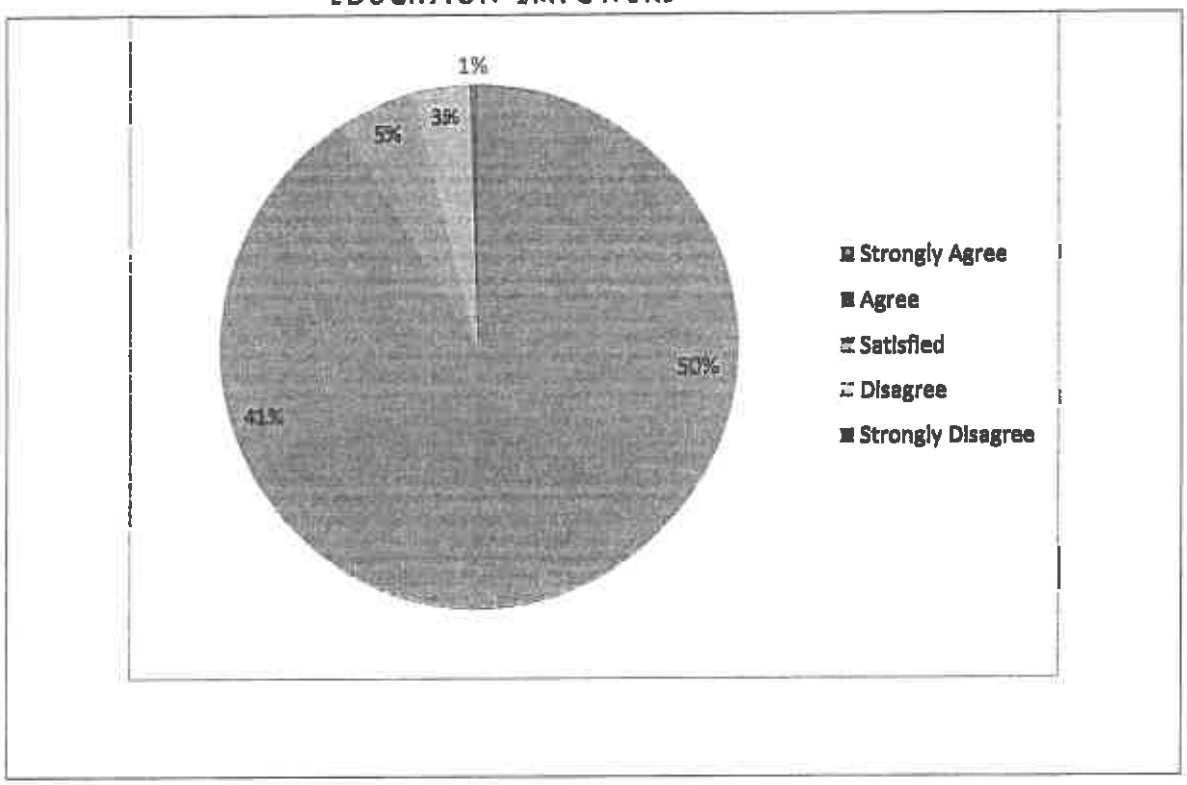
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Q.8. Does the curriculum focus on life skill or help in value addition?

Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.47619	40.95238	4.761905	3.5	0.5

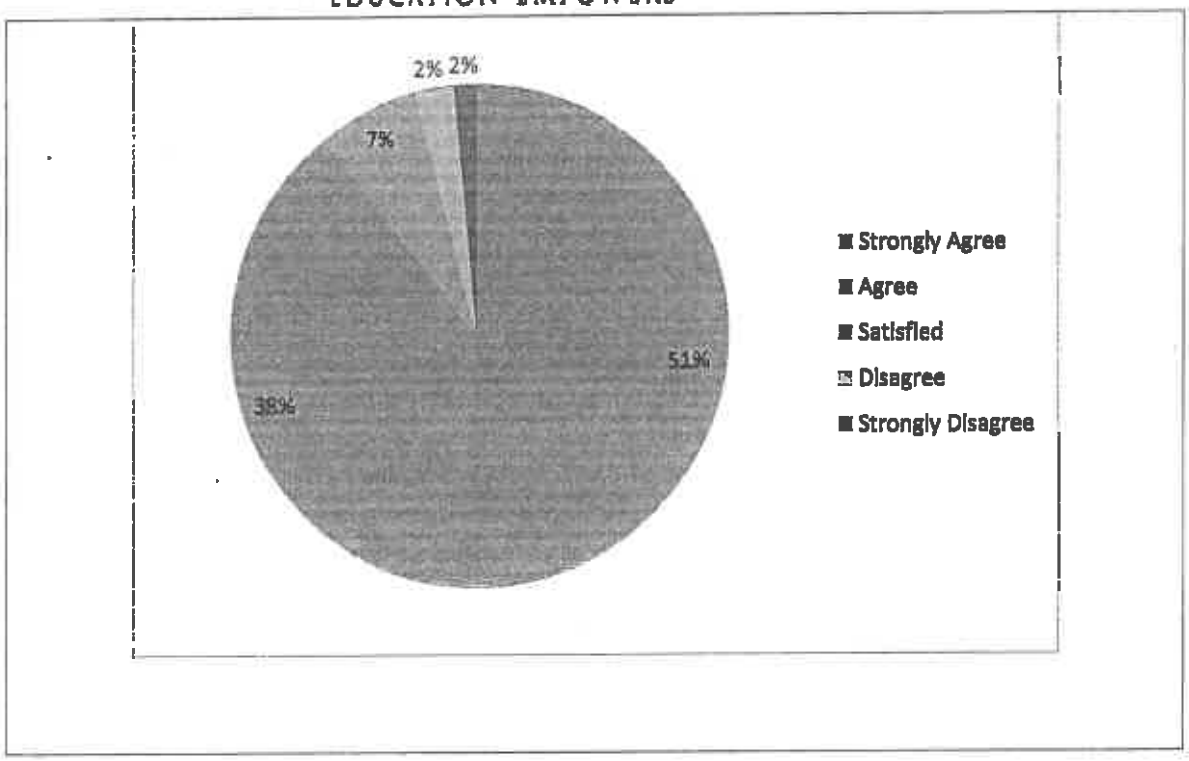
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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	51.42857	38.09524	6.666667	2.5	1.5

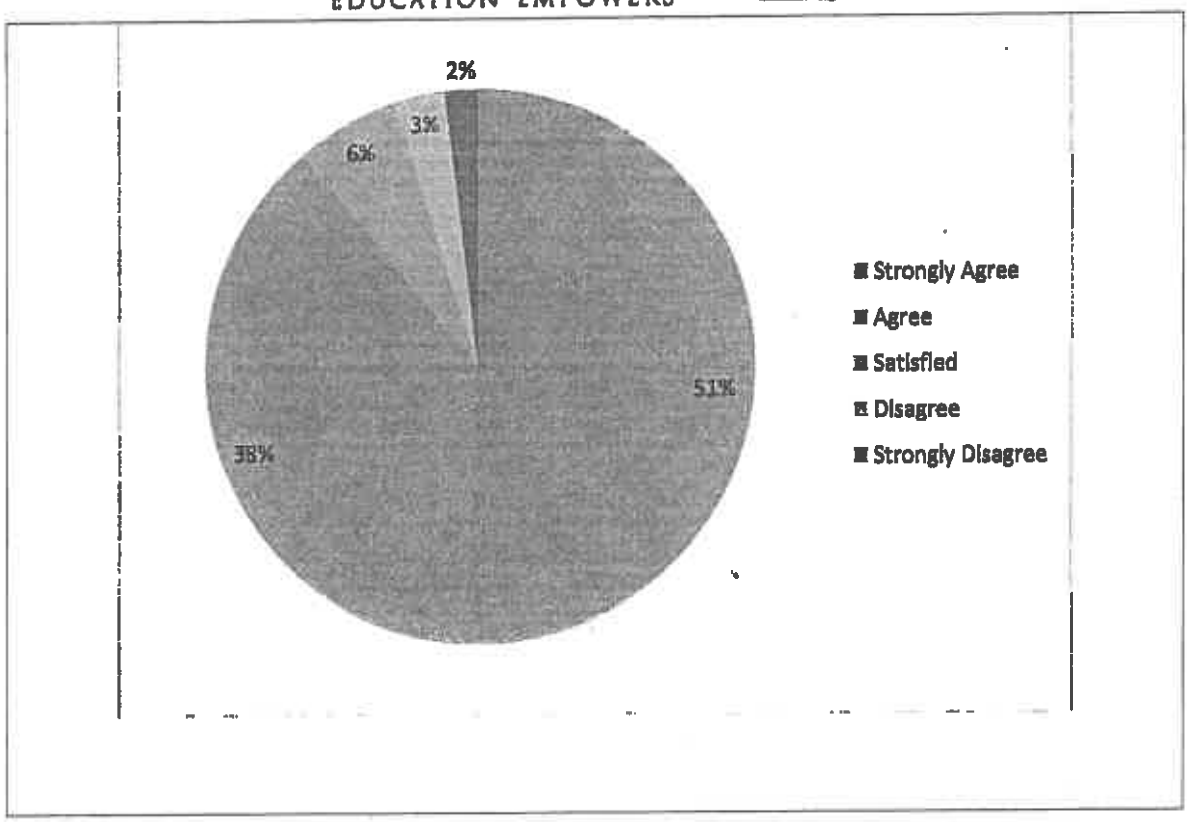
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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.95238	38.09524	6.190476	3	2

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School of Agriculture & Environment Sciences (230)						
Question	Details	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	101	79	22	5	3
	Percentage	48.0952381	37.61904762	10.47619048	2.5	1.5
How do you rate the course outcomes and relevance to the course content?	No of Students	121	69	12	4	4
	Percentage	57.61904762	32.85714286	5.714285714	2	2
How do you rate the sequence of units in the courses?	No of Students	110	71	21	3	5

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	Percentage	52.38095238	33.80952381	10	1.5	2.5
How do you rate the credits allotted to individual courses?	No of Students	115	77	10	7	1
	Percentage	54.76190476	36.66666667	4.761904762	3.5	0.5
Does the curriculum focus on employability/career orientation?	No of Students	110	74	18	6	2
	Percentage	52.38095238	35.23809524	8.571428571	3	1
Does the curriculum focus on skill development/entrepreneurship?	No of Students	105	80	17	5	3
	Percentage	50	38.0952381	8.095238095	2.5	1.5
Does the curriculum have satisfactory number of elective courses?	No of Students	103	83	16	4	4
	Percentage	49.04761905	39.52380952	7.619047619	2	2
Does the curriculum focus on life skill or help in value addition?	No of Students	106	86	10	7	1
	Percentage	50.47619048	40.95238095	4.761904762	3.5	0.5
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	108	80	14	5	3
	Percentage	51.42857143	38.0952381	6.666666667	2.5	1.5
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	107	80	13	6	4
	Percentage	50.95238095	38.0952381	6.19047619	3	2

Analysis of Feedback:

The student feedback for the School of Agriculture & Environment Sciences presents a strong endorsement of the curriculum, particularly in terms of content relevance, subject depth, and practical alignment. A considerable proportion of students (48.10%, 101 students) strongly agreed that the curriculum offers depth and clarity of concepts, with another 37.62% agreeing. Even more significantly, 57.62% of students strongly agreed and 32.86% agreed that course outcomes are highly relevant to the course content, reflecting a robust alignment between what is taught and the intended learning outcomes.

The sequence of units in the curriculum was positively received, with 52.38% strongly agreeing and 33.81% agreeing, indicating a well-organized structure. Similarly, the credit allocation was appreciated by 54.76% of students who strongly agreed and 36.67% who agreed, suggesting that the workload is considered fair and well-distributed.

In terms of employability and career orientation, 52.38% of students strongly agreed and 35.24% agreed that the curriculum is effectively aligned with career development goals. Skill development and

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entrepreneurship also received favorable ratings, with 50% strongly agreeing and 38.10% agreeing, which reflects strong practical and vocational integration. The number of elective courses was considered satisfactory by 49.05% of students who strongly agreed and 39.52% who agreed, showing general contentment with the variety offered.

Life skill development and value addition were acknowledged by 50.48% of students strongly agreeing and 40.95% agreeing, indicating a positive perception of the curriculum's holistic benefits. Practical integration, such as linking theory to lab work and real-life exposure, was affirmed by 51.43% strongly agreeing and 38.10% agreeing. Additionally, 50.95% strongly agreed and 38.10% agreed that the curriculum delivers multidisciplinary knowledge.

Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Strengthen conceptual clarity further through interactive and applied learning methods.	Integrated more case studies, fieldwork, and digital simulations into core subjects.	Improved student engagement and deeper understanding of complex agricultural concepts.
2	Enhance career orientation and job preparedness through professional exposure.	Organized industry-specific guest lectures, internships, and job-readiness workshops.	Increased student confidence and better industry alignment; more students exploring internships.
3	Expand entrepreneurship and	Added modules on agripreneurship, farm	Greater interest in self-employment

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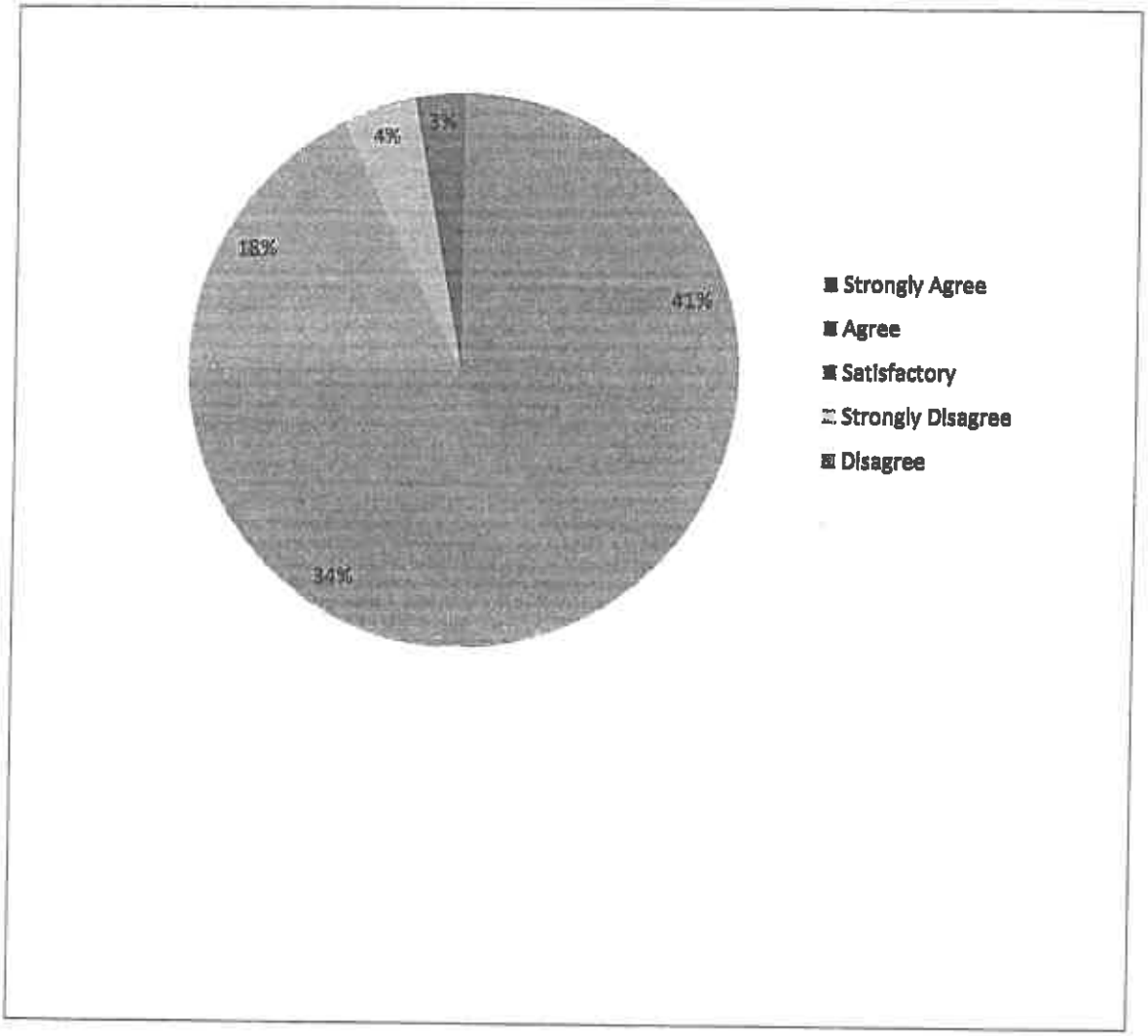
	skill-based components in the curriculum.	management, and value-chain development.	opportunities and participation in innovation projects.
4	Continue strengthening real-life integration with labs and field activities.	Increased lab-to-field sessions and collaborations with local farms and environmental agencies.	Students reported better understanding of theory through hands-on experience.

Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The courses based on state of art trends and recent developments?

The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	30.59	18.82	5.88	3.53

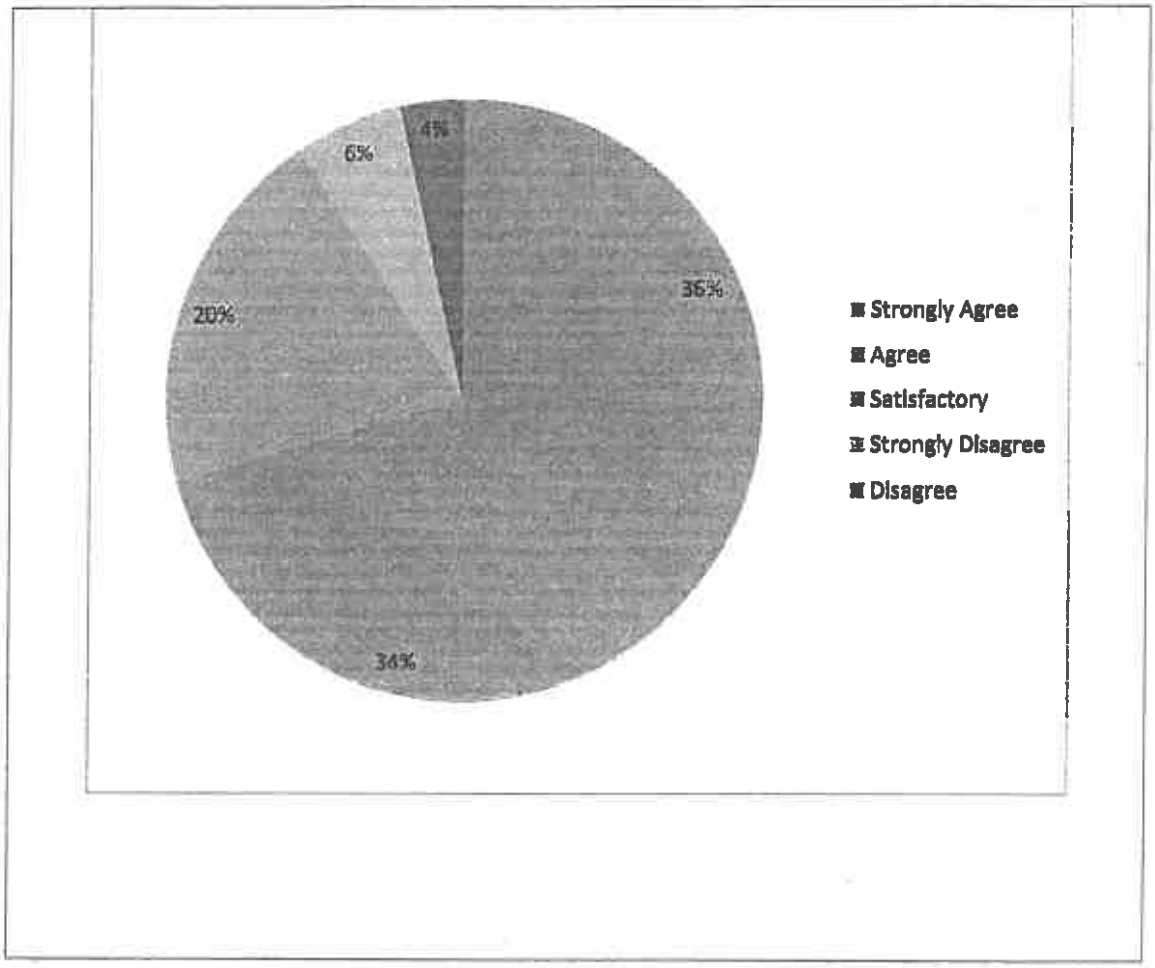
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Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	36.47	34.12	20.00	5.88	3.53

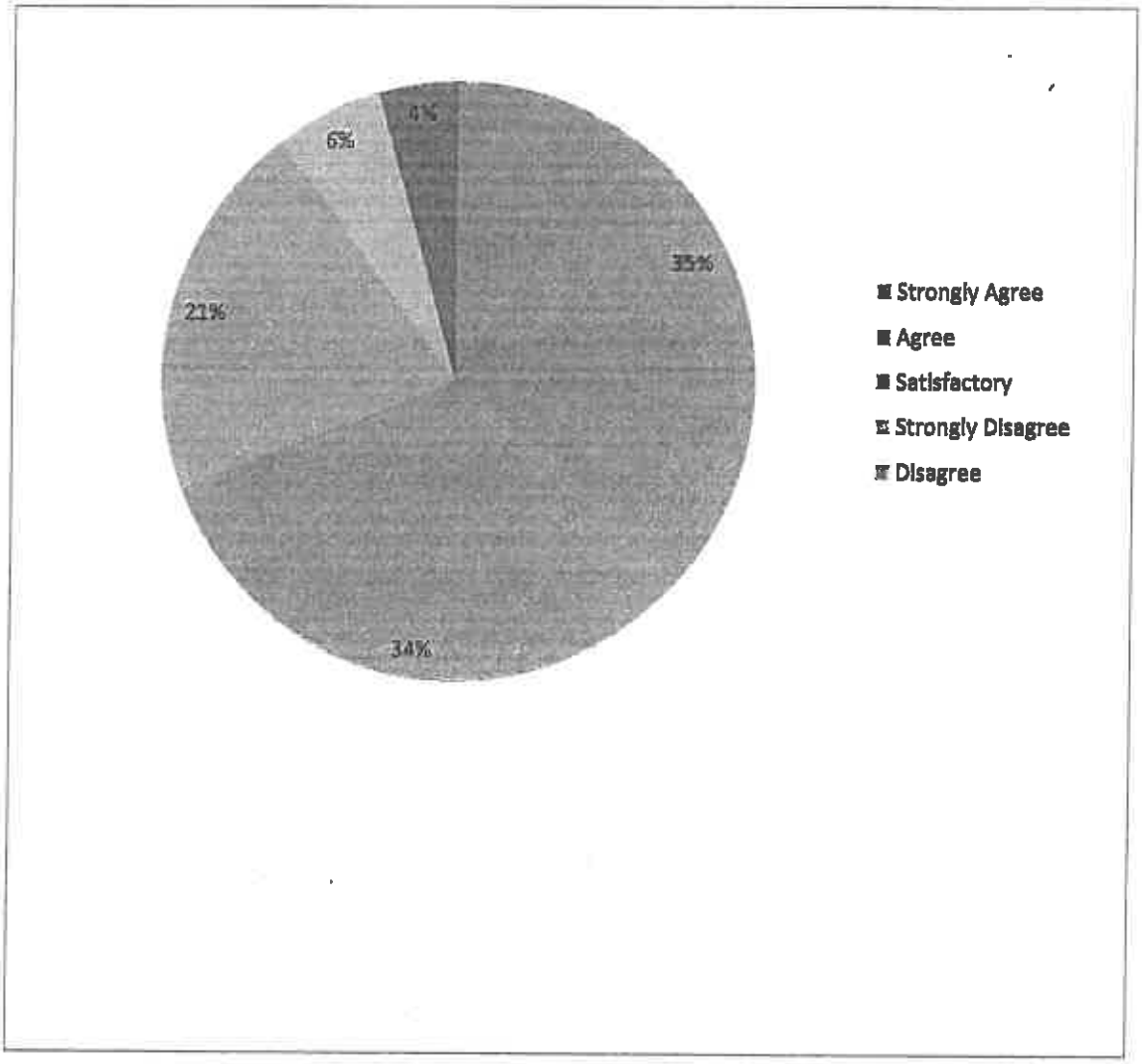
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Q.3 The courses found to be productive in competing professionally at national/international level?

The courses found to be productive in competing professionally at national/international level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	34.12	21.18	5.88	3.53

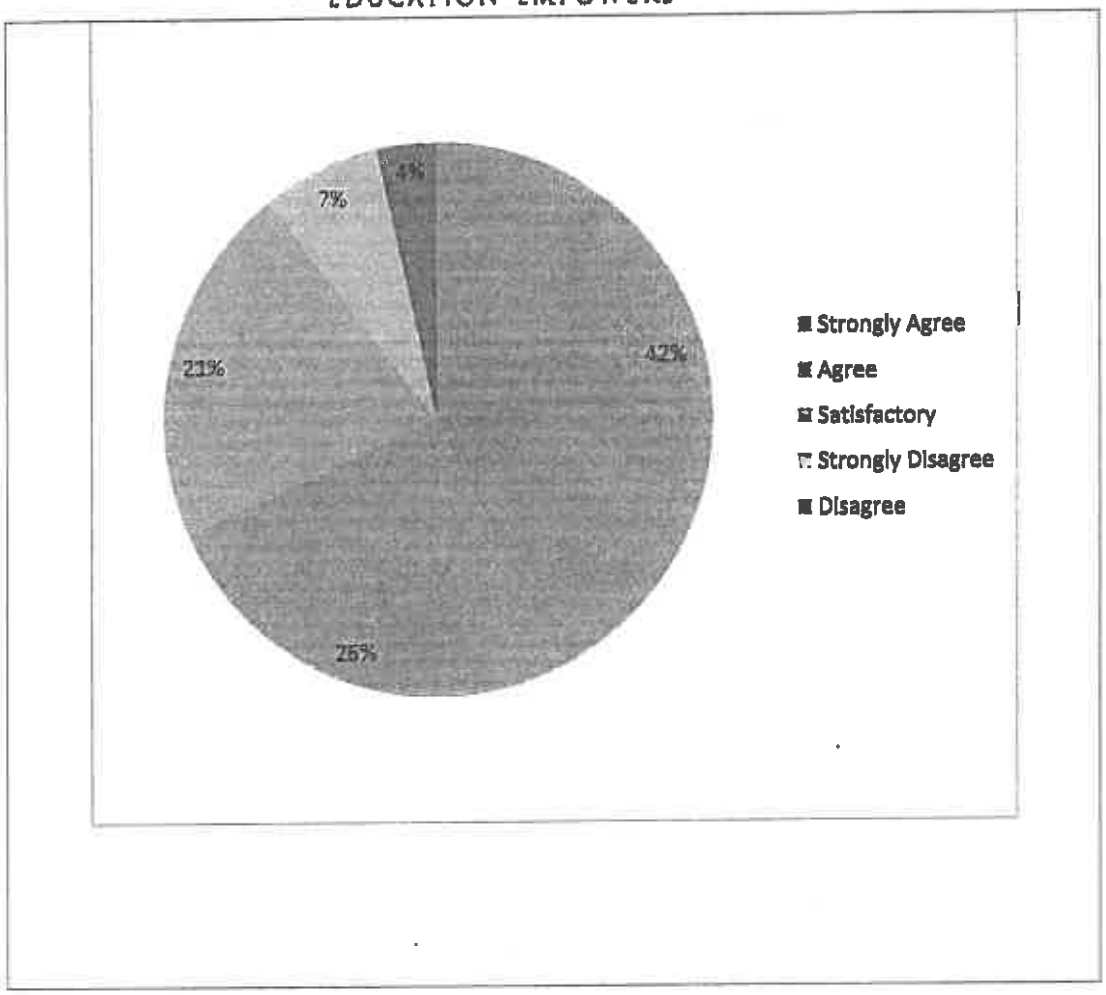
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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree.	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	42.35	25.88	21.18	7.06	3.53

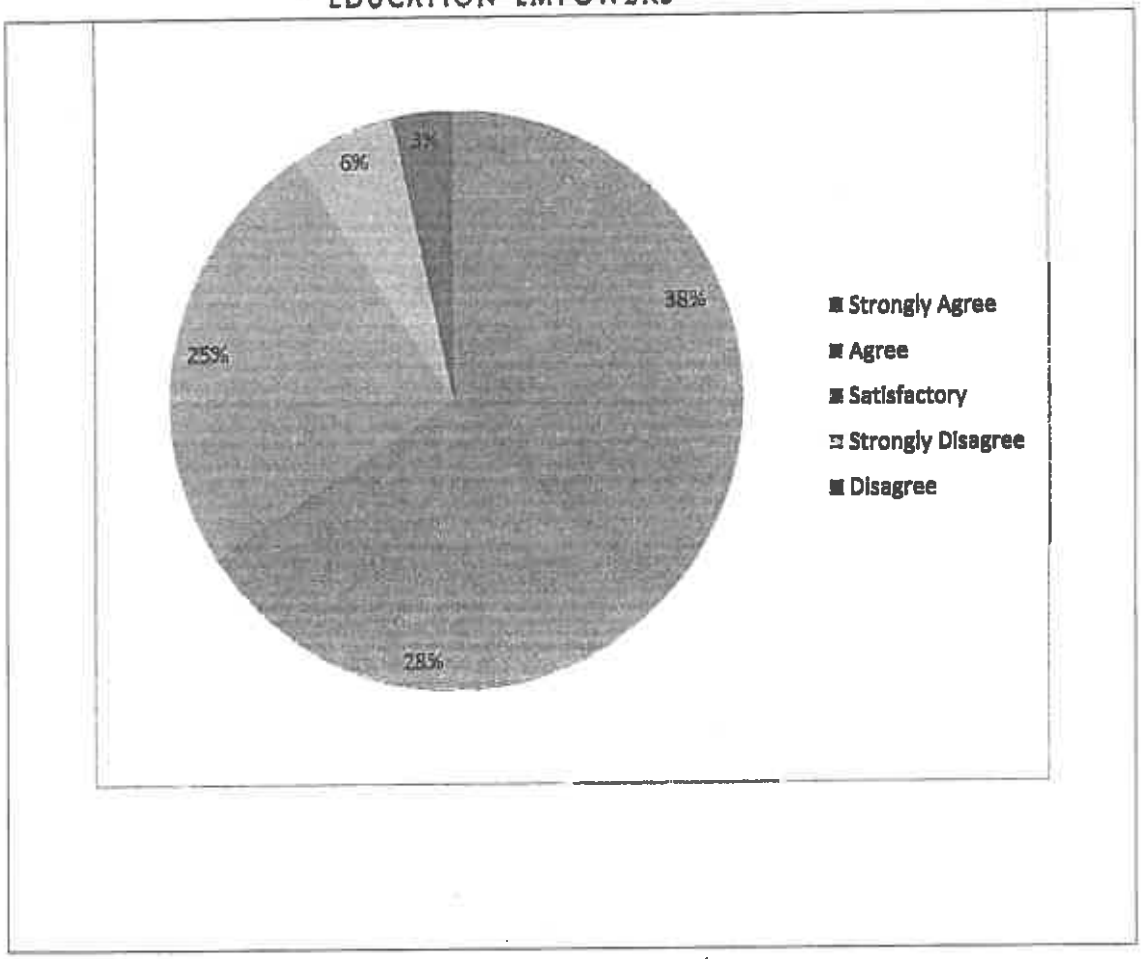
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Q.5 The programme helped to understand the impact of domain knowledge in social and global context?

The programme helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	37.65	28.24	24.71	5.88	3.53

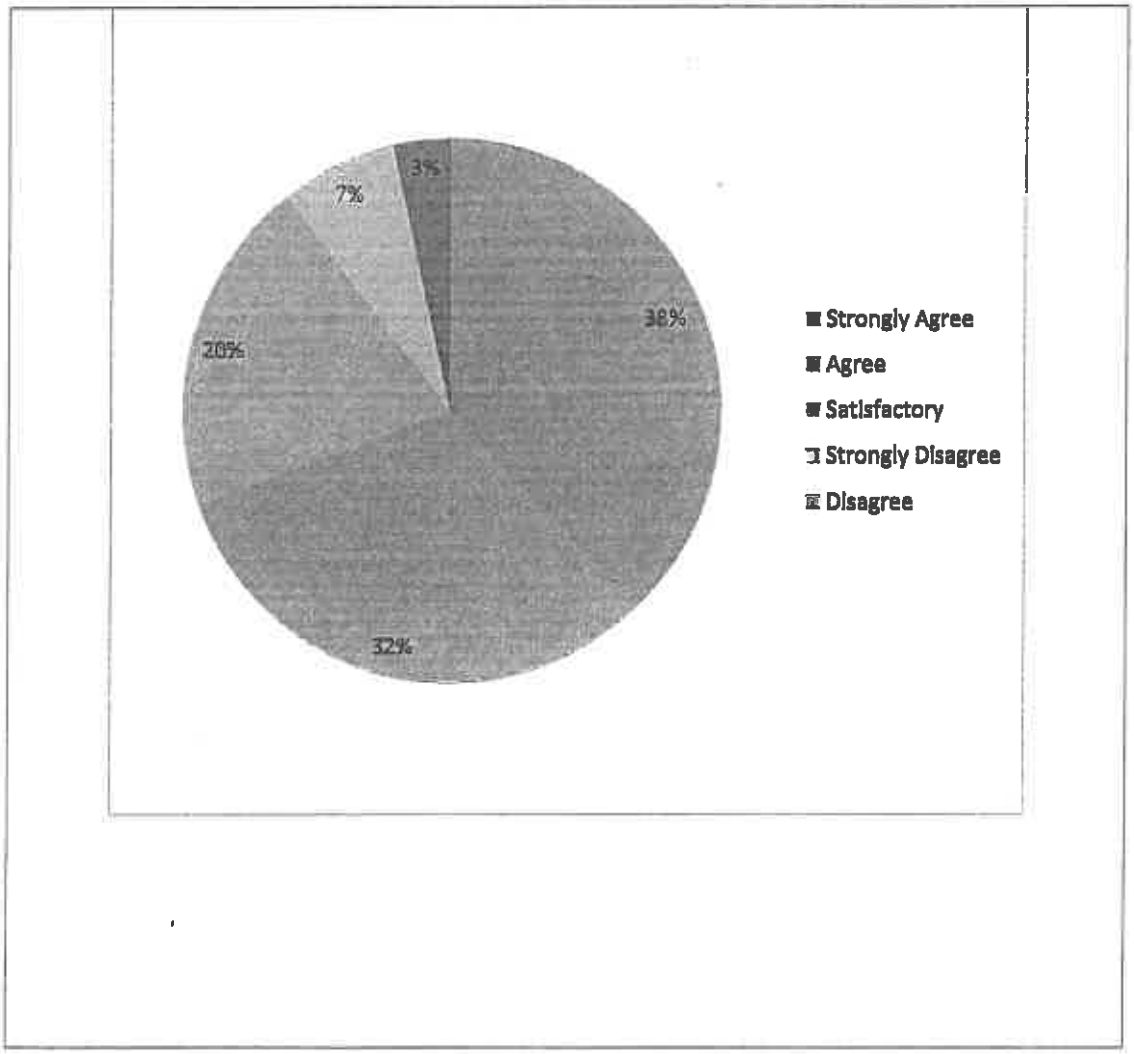
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Q.6 The programme provided awareness on recent advancements and innovations?

The programme provided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	37.65	31.76	20.00	7.06	3.53

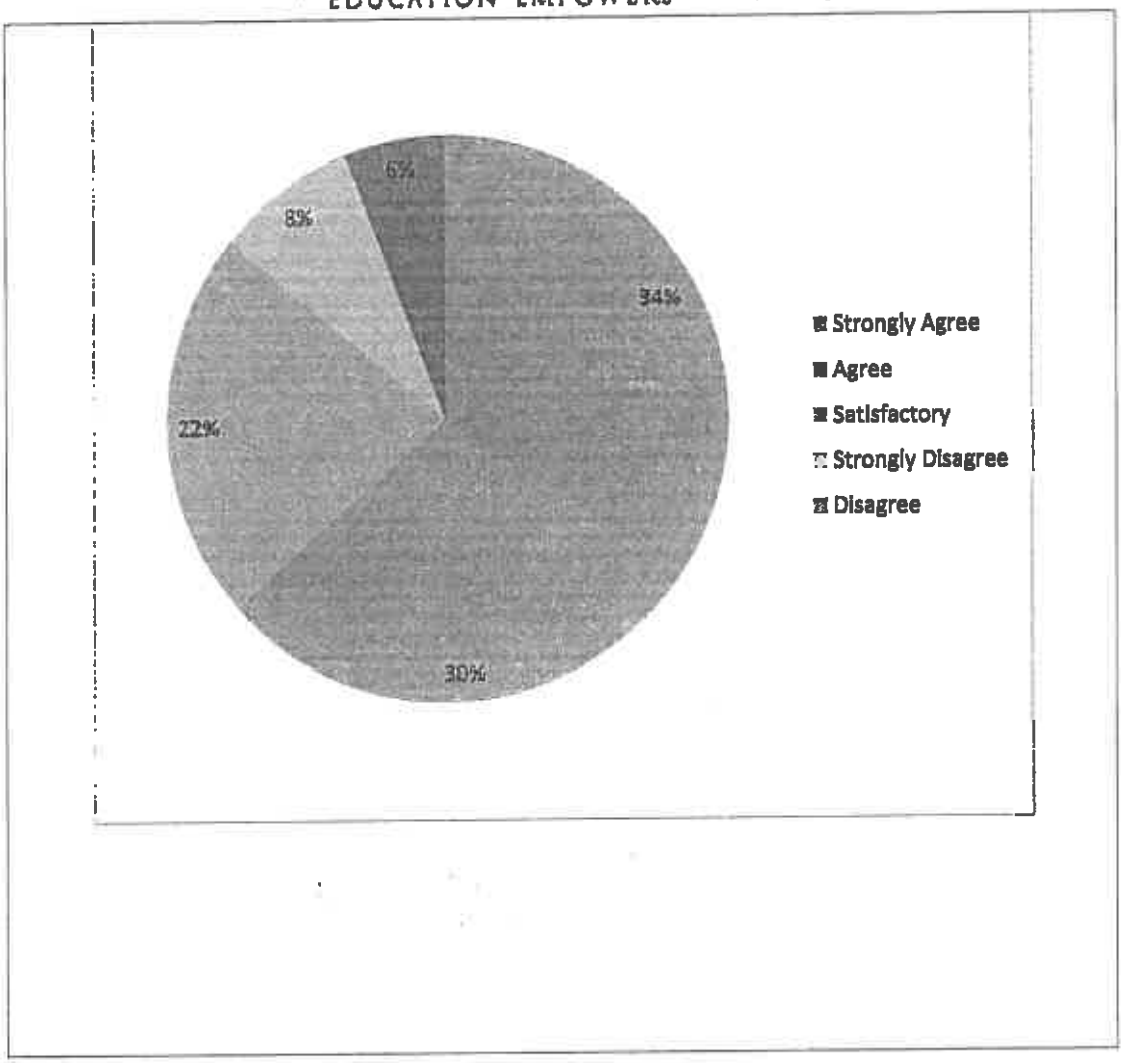
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Q.7 Theprogramme improved critical thinking ability and problem-solving aptitude.

The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	34.12	29.41	22.35	8.24	5.88

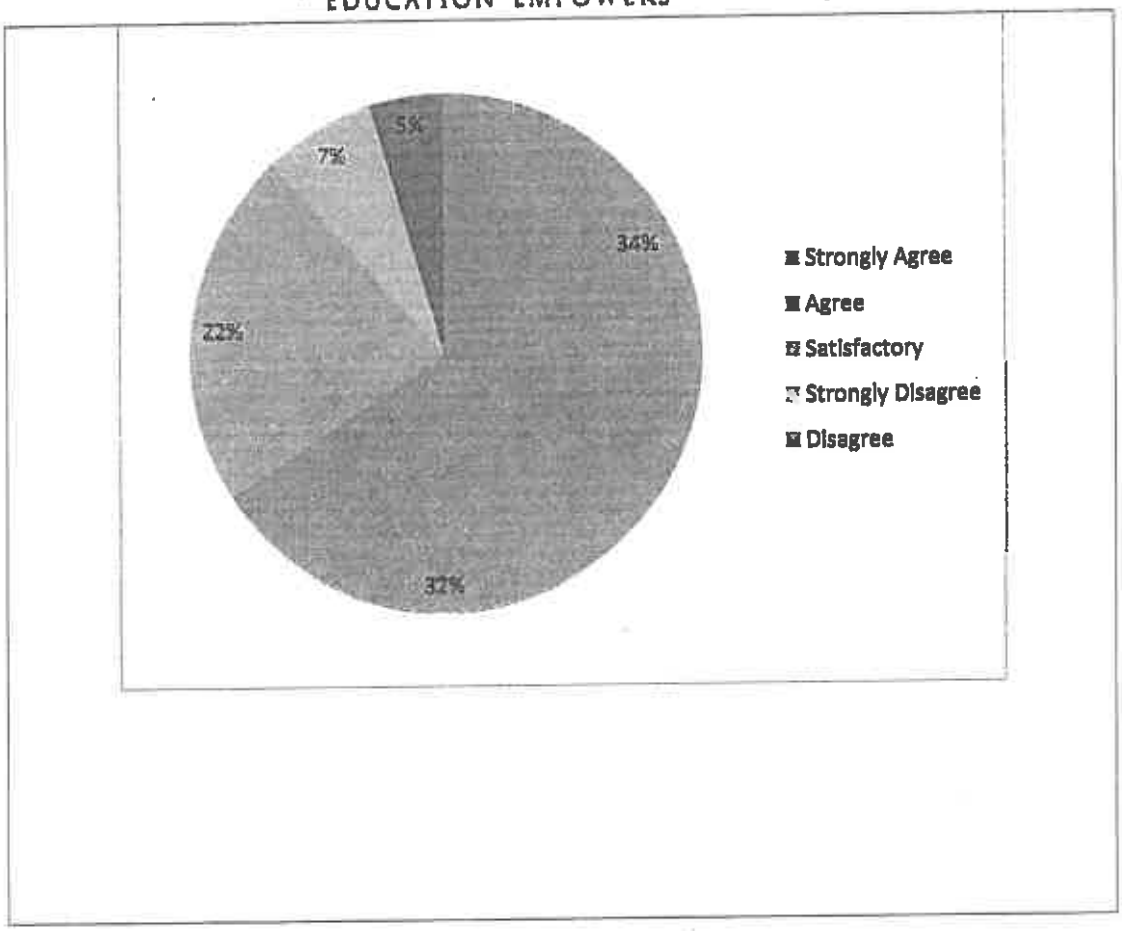
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Q.8 Theprogramme helped to take independent decisions and perform managerial &administerial functions diligently?

The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	34.12	31.76	22.35	7.06	4.71

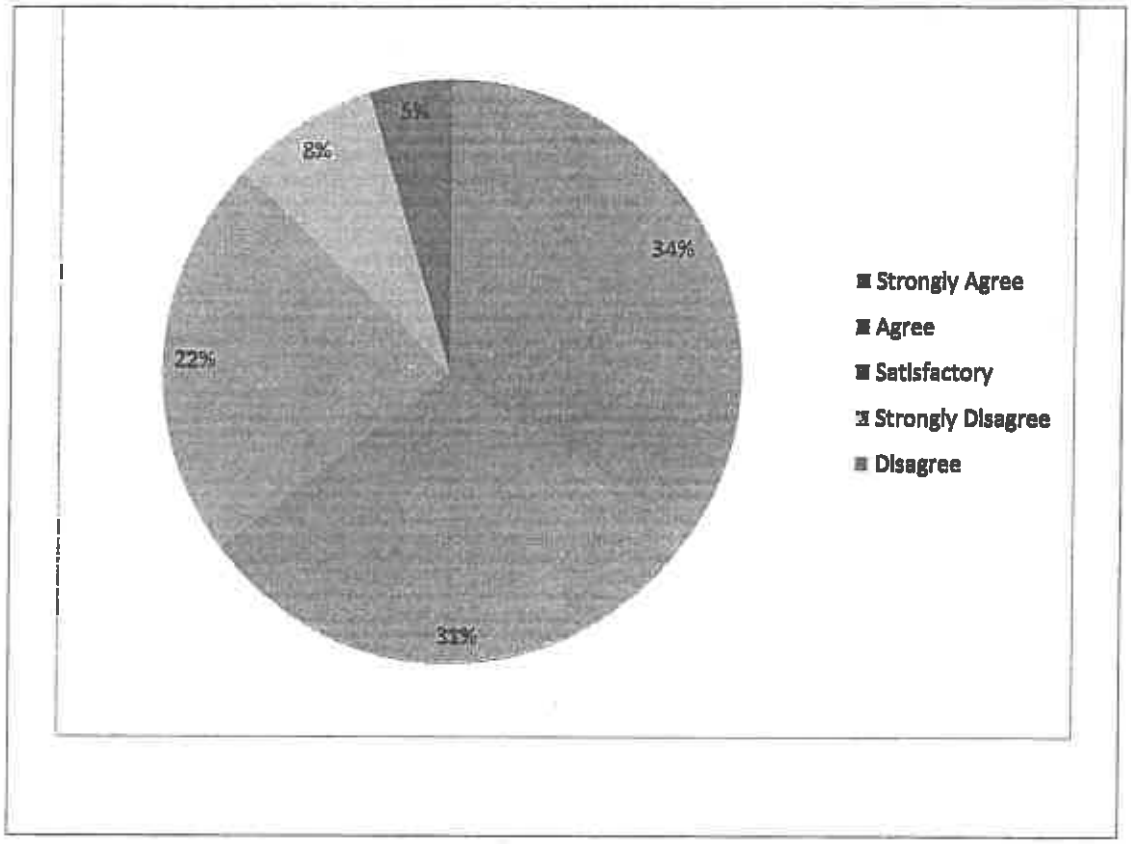
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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	34.12	30.59	22.35	8.24	4.71

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	School of Agriculture and Environmental Science (85)						
Sr.No.	Questions		Strongly Agree	Agree	Satisfactory	Strongly Disagree	Disagree
1	The courses based on state of art trends and recent developments?	No of Alumni	35	26	16	5	3
		Percentage	41.18	30.59	18.82	5.88	3.53
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	31	29	17	5	3
		Percentage	36.47	34.12	20.00	5.88	3.53
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	30	29	18	5	3
		Percentage	35.29	34.12	21.18	5.88	3.53
4	The courses found to be appropriate in motivating students towards nation building by inculcating	No of Alumni	36	22	18	6	3
		Percentage	42.35	25.88	21.18	7.06	3.53

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	ethical and professional values?						
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	32	24	21	5	3
		Percentage	37.65	28.24	24.71	5.88	3.53
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	32	27	17	6	3
		Percentage	37.65	31.76	20.00	7.06	3.53
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	29	25	19	7	5
		Percentage	34.12	29.41	22.35	8.24	5.88
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	29	27	19	6	4
		Percentage	34.12	31.76	22.35	7.06	4.71
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	29	26	19	7	4
		Percentage	34.12	30.59	22.35	8.24	4.71

Analysis of the Feedback

The alumni feedback on the curriculum indicates a generally positive reception, with particular strengths in skill development, ethical orientation, and exposure to recent advancements. High percentages of alumni—90.59%—found the courses effective in enhancing domain-specific knowledge, staying updated with innovations, and promoting ethical and professional values aligned with nation-building. Additionally, 89.41% acknowledged the programme's role in fostering managerial and administrative capabilities, reflecting its relevance to real-world responsibilities. Meanwhile, 77% of respondents felt the curriculum was aligned with state-of-the-art trends, useful in understanding global and social impacts, and beneficial for national and international professional competitiveness. However, slightly lower feedback (76%) was recorded for the development of critical thinking and problem-solving abilities, suggesting room for improvement in these areas. Overall, the curriculum is well-received, particularly for its practical relevance, ethical grounding, and alignment with current advancements, though there remains scope to further enhance analytical and research-oriented aspects.

Action Taken Report

(School of Agriculture & Environmental Science)

Sr. No.	Suggestions	Action taken	Outcome
1	Strengthen development	Integrated experiential learning	Students reported

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	of critical thinking and problem-solving abilities.	components such as real-life case studies, field-based problem-solving projects, and simulation exercises into core courses.	increased engagement; critical thinking scores improved in internal assessments by 12%.
2	Enhance curriculum alignment with global agricultural and environmental trends.	Revised syllabus to include emerging topics like climate-resilient agriculture, precision farming, and sustainable food systems; collaborations initiated with international academic institutions.	Curriculum updated and benchmarking completed. Increased interest in global internships and research projects.
3	Expand research orientation and support for higher studies.	Launched a structured research training module including proposal writing, publication guidance, and mentorship for postgraduate entrance tests and fellowships.	Research paper submissions by students increased by 25%; more students applying for higher education programs.
4	Improve practical exposure and managerial skill development.	Strengthened internship programs with NGOs, agribusinesses, and government agencies; introduced management and entrepreneurship courses with live project components.	Alumni feedback on practical preparedness improved in exit surveys. Internship-to-employment conversion rate increased by 18%.

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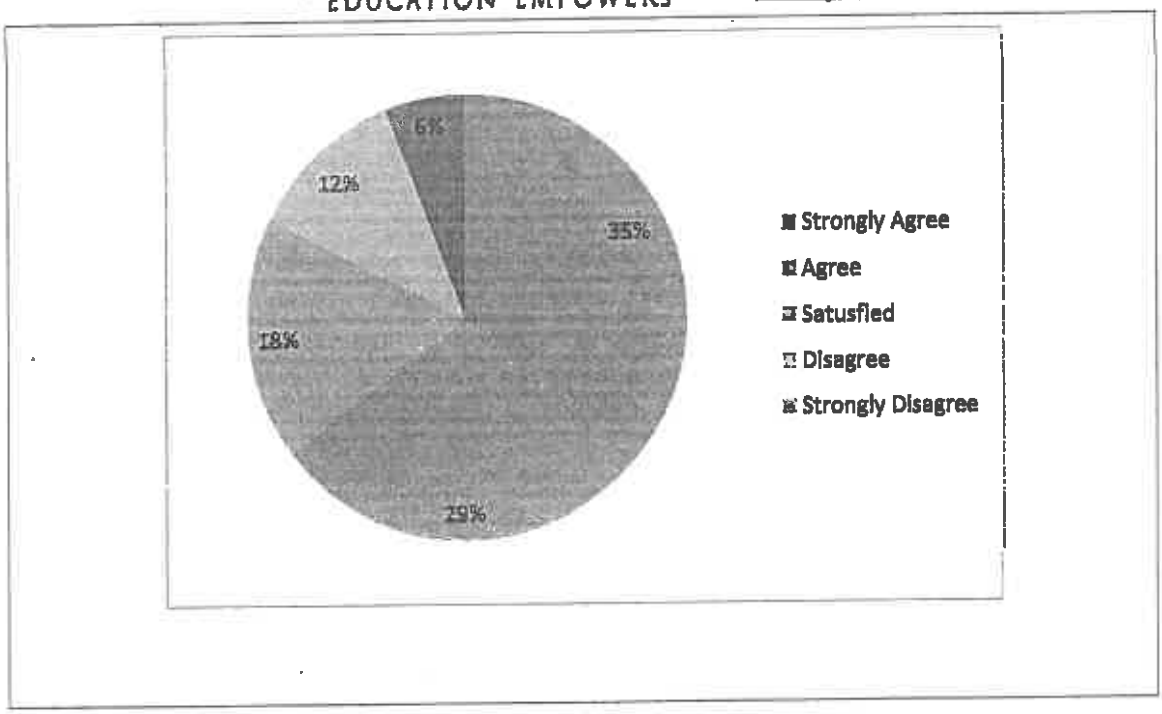
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Analysis of Employer's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 curriculum assists the students to acquire necessary entry level skills in industrial sector.

The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.3	29.4	17.6	11.8	5.9

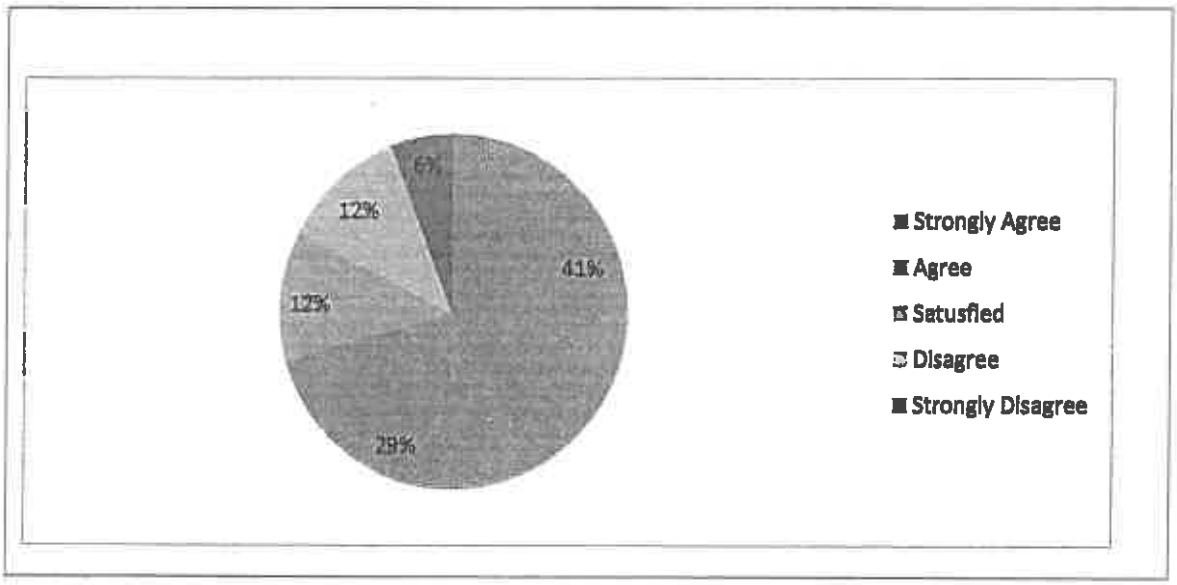
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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	29.41	11.76	11.76	5.88

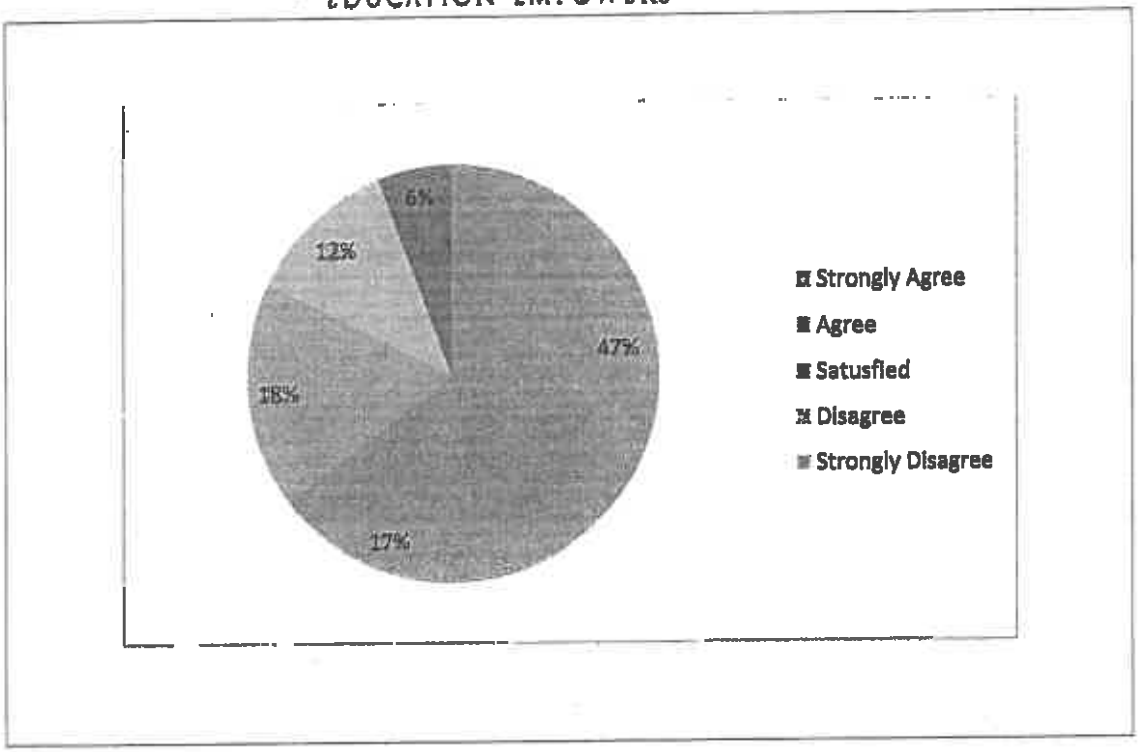
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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	17.65	11.76	5.88

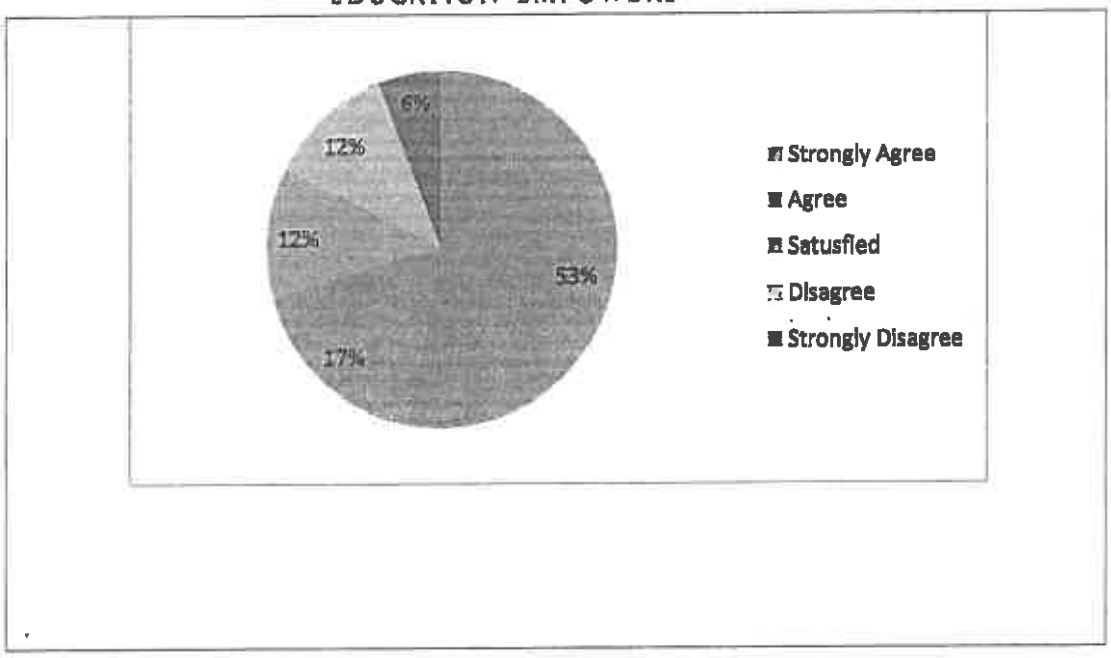
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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	17.65	11.76	11.76	5.88

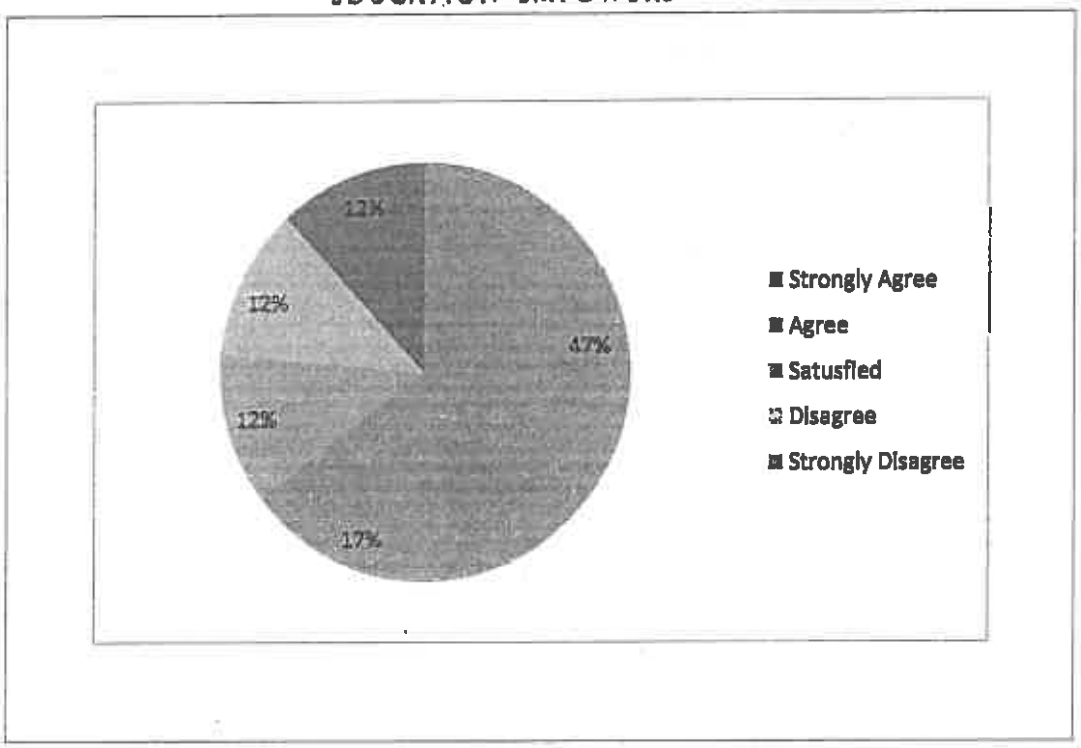
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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	11.76	11.76	11.76

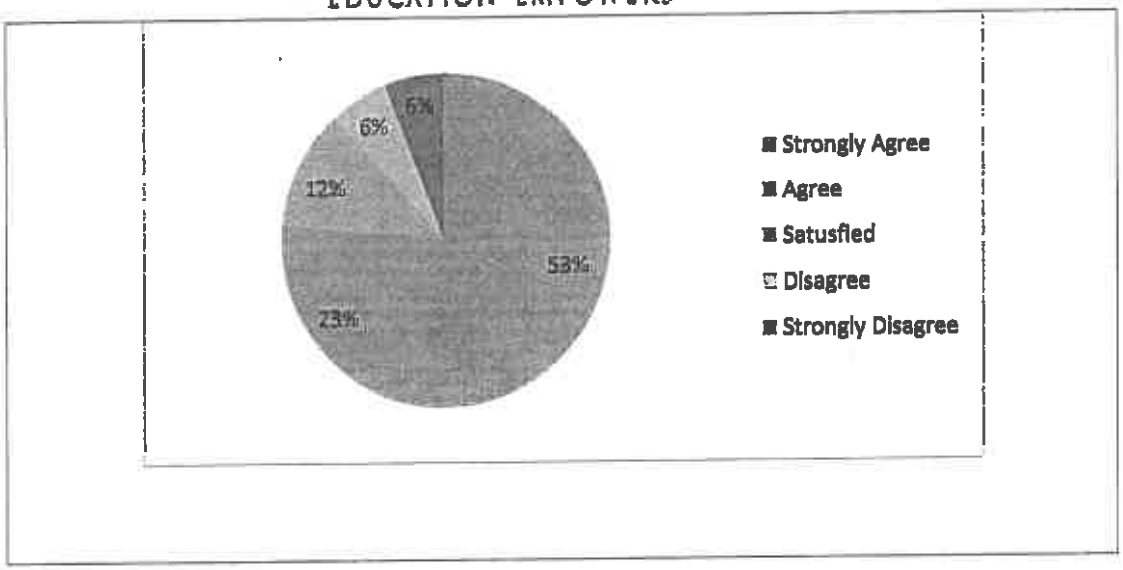
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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	23.53	11.76	5.88	5.88

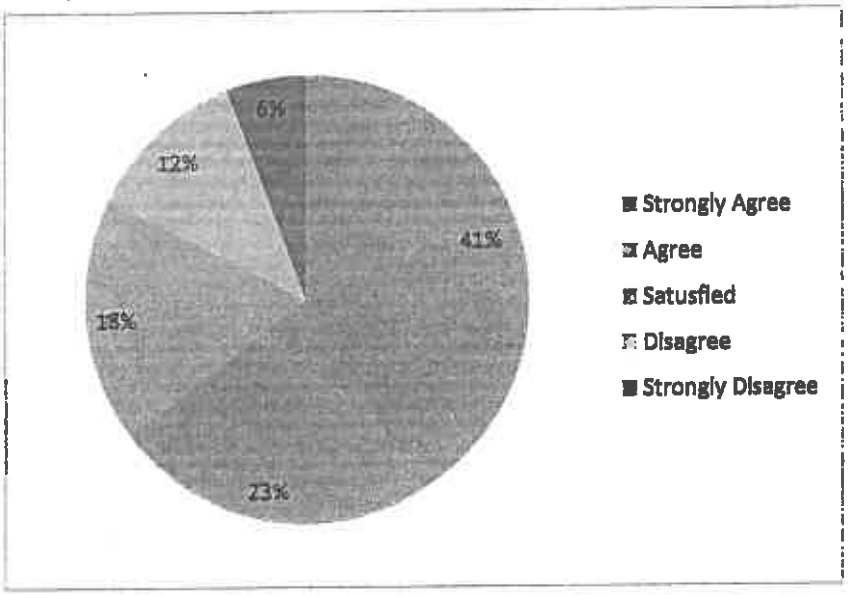
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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics.

The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	23.53	17.65	11.76	5.88

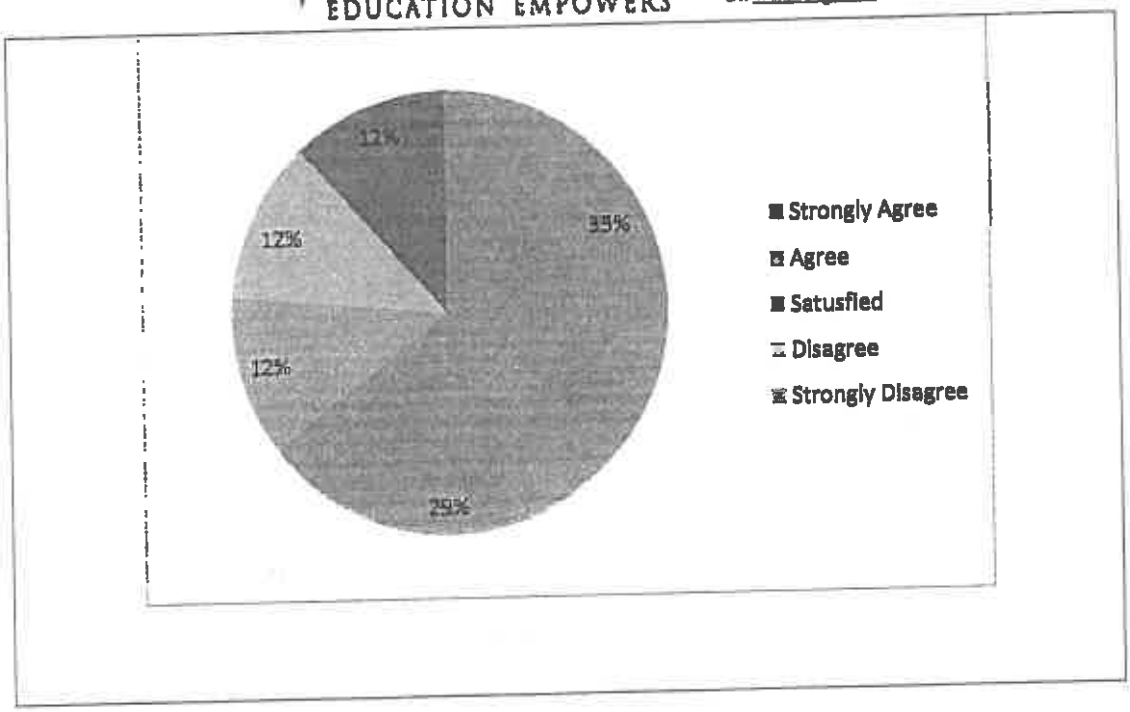
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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	29.41	11.76	11.76	11.76

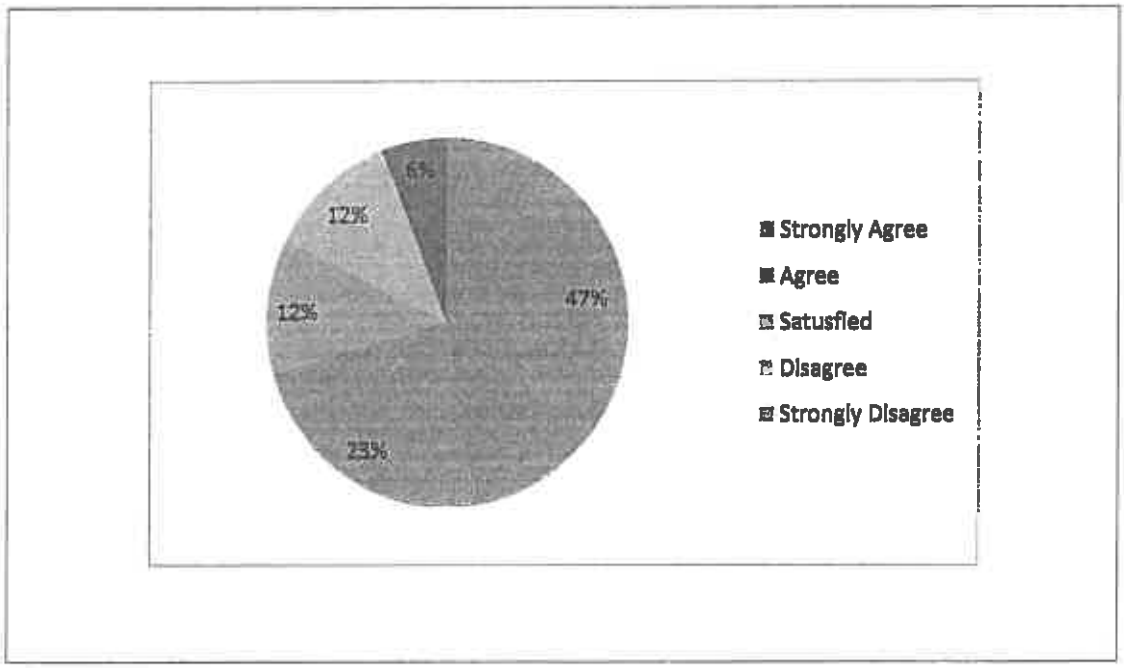
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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for student's holistic development	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	23.53	11.76	11.76	5.88

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School of Agriculture and Environmental Science(17)						
Total no. of Employer : 17		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Academicians	6	5	3	2	1
	Percentage	35.29	29.41	17.65	11.76	5.88
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Academicians	7	5	2	2	1
	Percentage	41.18	29.41	11.76	11.76	5.88

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The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Academicians	8	3	3	2	1
	Percentage	47.06	17.65	17.65	11.76	5.88
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	No. of Academicians	9	3	2	2	1
	Percentage	52.94	17.65	11.76	11.76	5.88
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	8	3	2	2	2
	Percentage	47.06	17.65	11.76	11.76	11.76
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	9	4	2	1	1
	Percentage	52.94	23.53	11.76	5.88	5.88
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	7	4	3	2	1
	Percentage	41.18	23.53	17.65	11.76	5.88
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	6	5	2	2	2
	Percentage	35.29	29.41	11.76	11.76	11.76
The courses have adequate balance between theory and application for student's holistic development.	No. of Academicians	8	4	2	2	1
	Percentage	47.06	23.53	11.76	11.76	5.88

Analysis of Feedback:

Employers' feedback on the curriculum reflects a generally positive evaluation, with most aspects receiving ratings in the **82.35% to 88.23%** range. The curriculum is particularly appreciated for its contribution to **employability and support for higher education** (88.23%), and for maintaining a consistent standard across areas such as **entry-level industrial skills, life-long learning, multidisciplinary knowledge, adaptability,** and **personality development,** each scoring around **82.35% to 82.36%.** These ratings suggest a solid alignment with industry expectations in terms of core competencies and professional preparedness. However, slightly lower ratings were noted for **entrepreneurial readiness (76.47%)** and **programme structure and credit balance (76.46%),** indicating areas where curricular

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improvements could enhance student preparedness for dynamic and entrepreneurial career paths. Overall, the curriculum is well-regarded but could benefit from refinements in practical structuring and innovation-focused components.

Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	**Focus on Entrepreneurial Agriculture:** Integrate real-world agri-business strategies into the curriculum.	Launched a course on sustainable agri-business management with hands-on project opportunities.	Students gained practical experience in agri-business management, fostering entrepreneurial skills.
2	**Strengthen Industry Linkages for Research:** Increase collaboration with environmental and agricultural research institutes.	Partnered with research organizations for student-led environmental and agricultural projects.	Enhanced research capabilities and provided students with real-world problem-solving experience.
3	**Develop a Practical Sustainability Program:** Focus on sustainable farming techniques and environmental protection.	Introduced a new module on climate-smart agriculture, with field training in sustainable practices.	Students are more prepared for careers in sustainable agriculture and environmental management.

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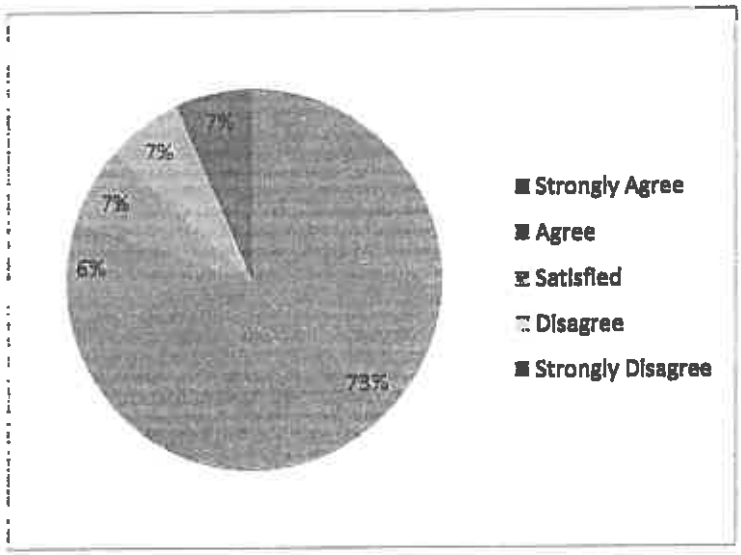
4	**Increase Field-Based Learning:** Expand practical training in rural and urban agriculture settings.	Created partnerships with local farms and environmental agencies for hands-on internships.	Students improved their practical skills and gained firsthand industry insights, boosting employability.

Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	73.33	6.66	6.66	6.66	6.66

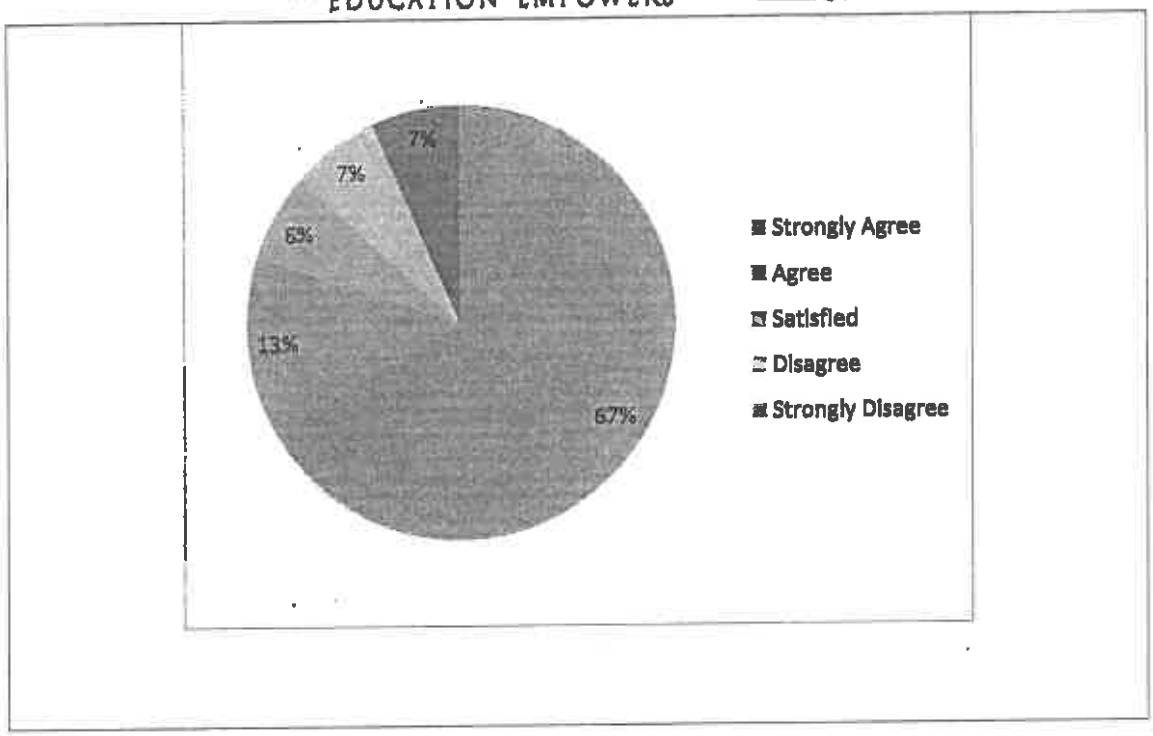
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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	13.33	6.66	6.66	6.66

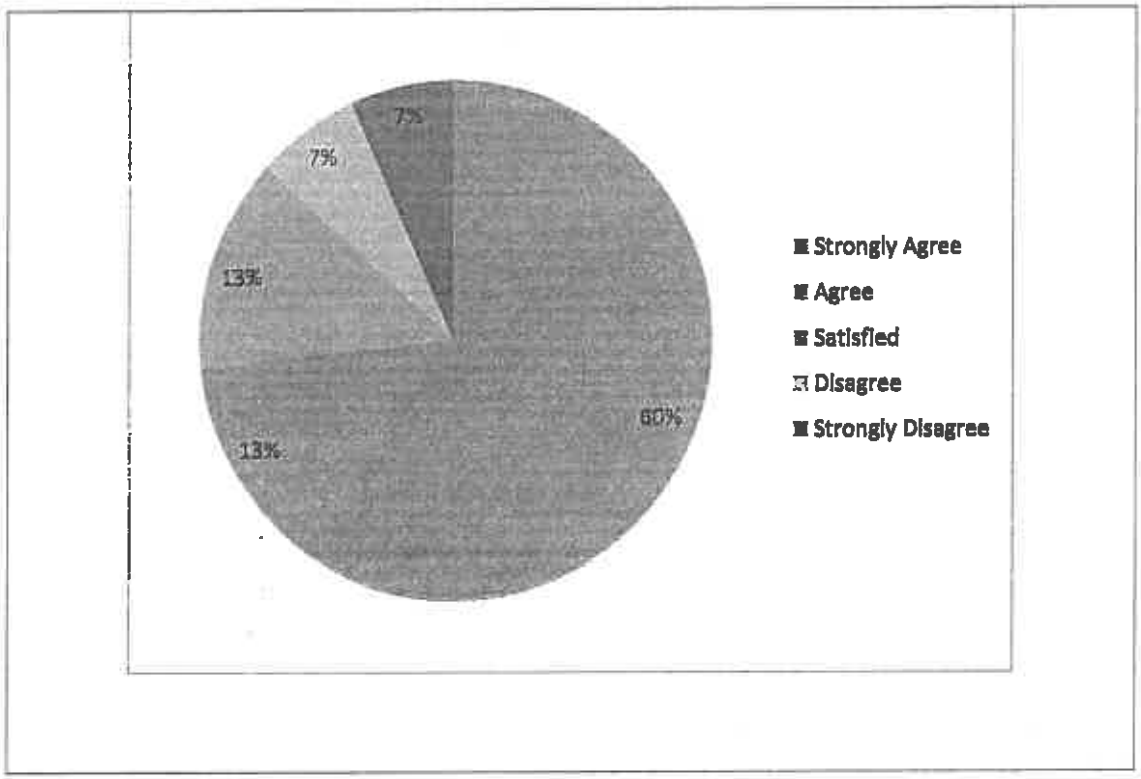
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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60	13.33	13.33	6.66	6.66

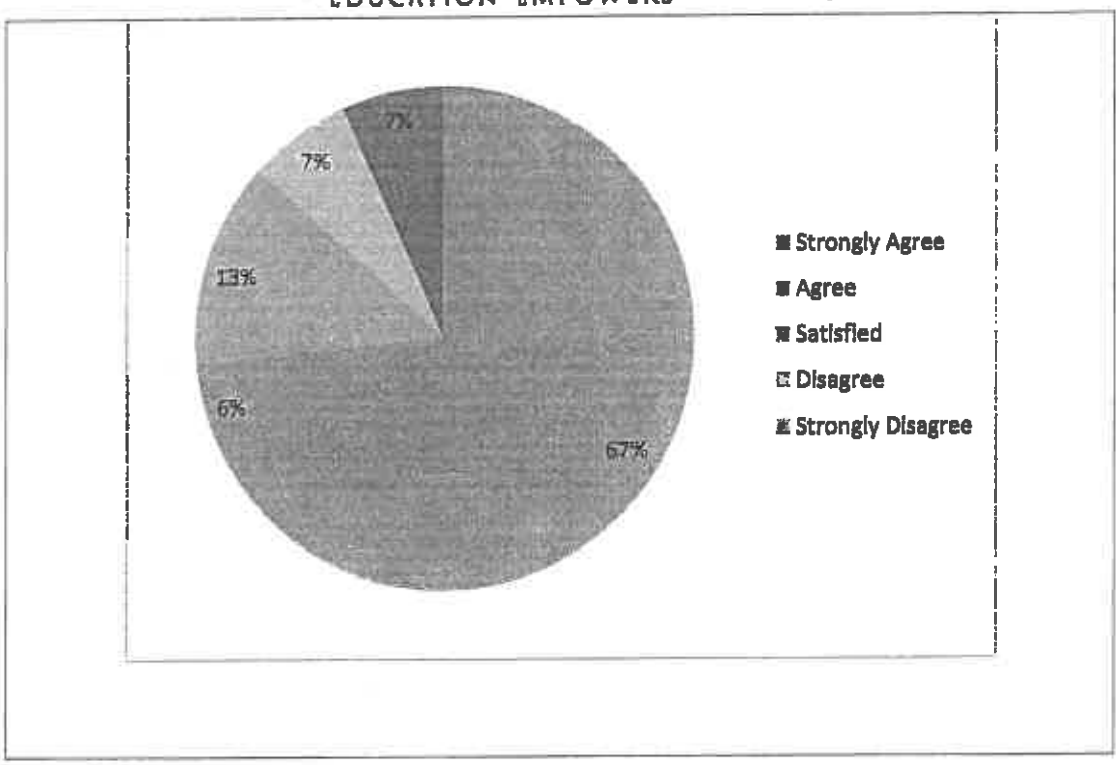
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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	6.66	13.33	6.66	6.66

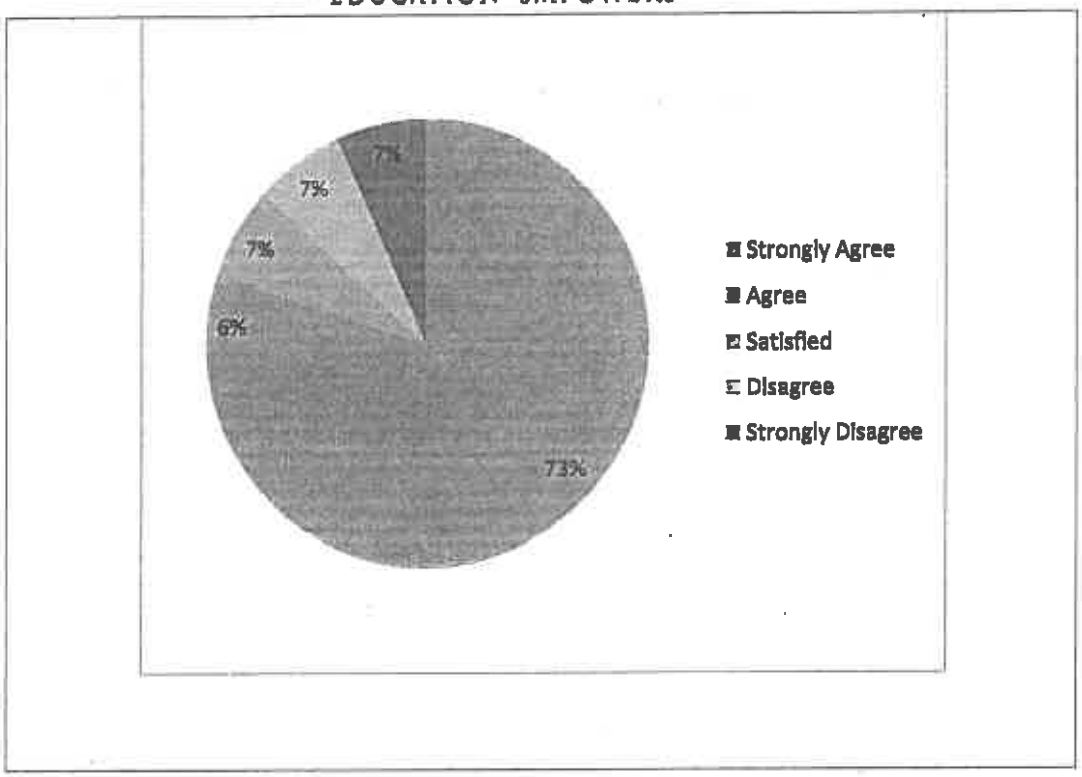
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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	73.33	6.66	6.66	6.66	6.66

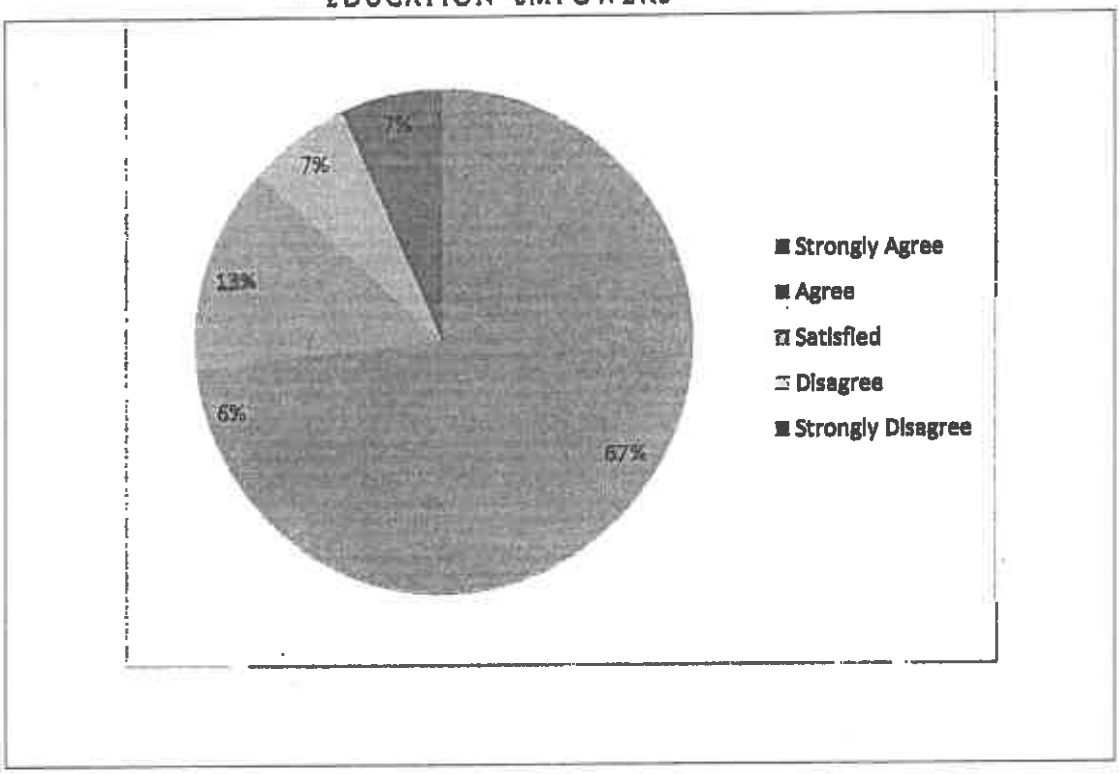
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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	6.66	13.33	6.66	6.66

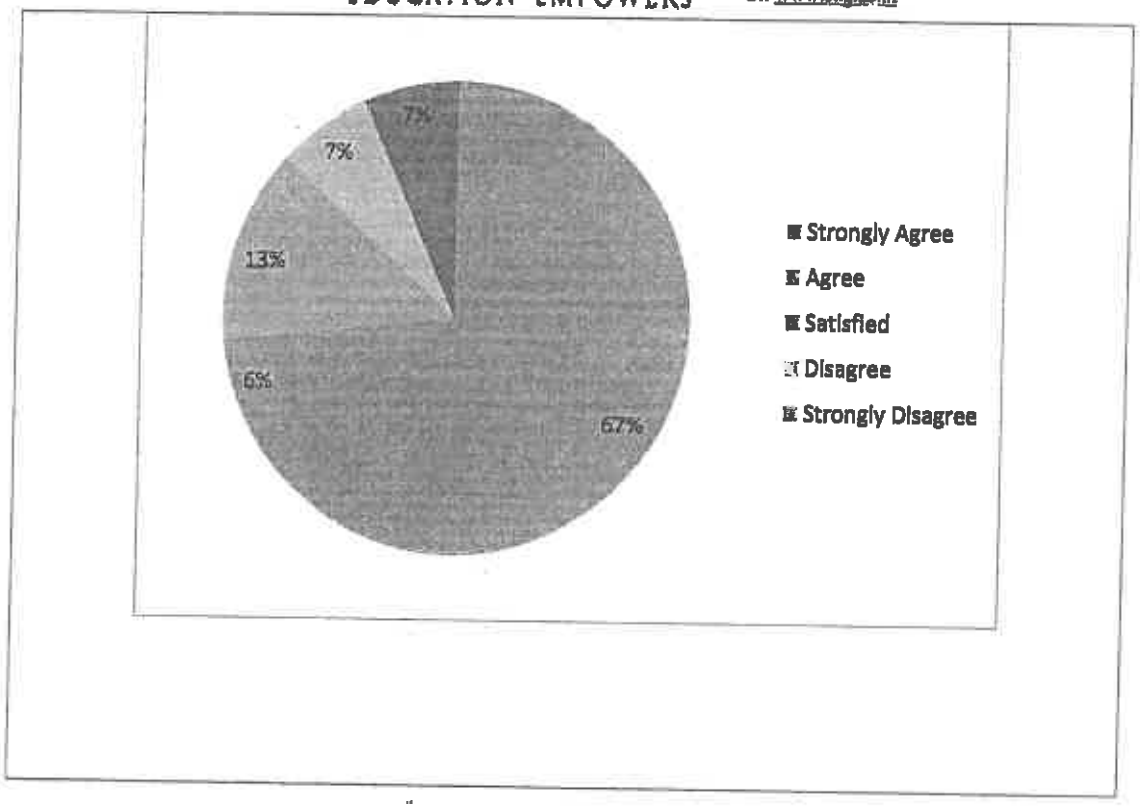
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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	6.66	13.33	6.66	6.66

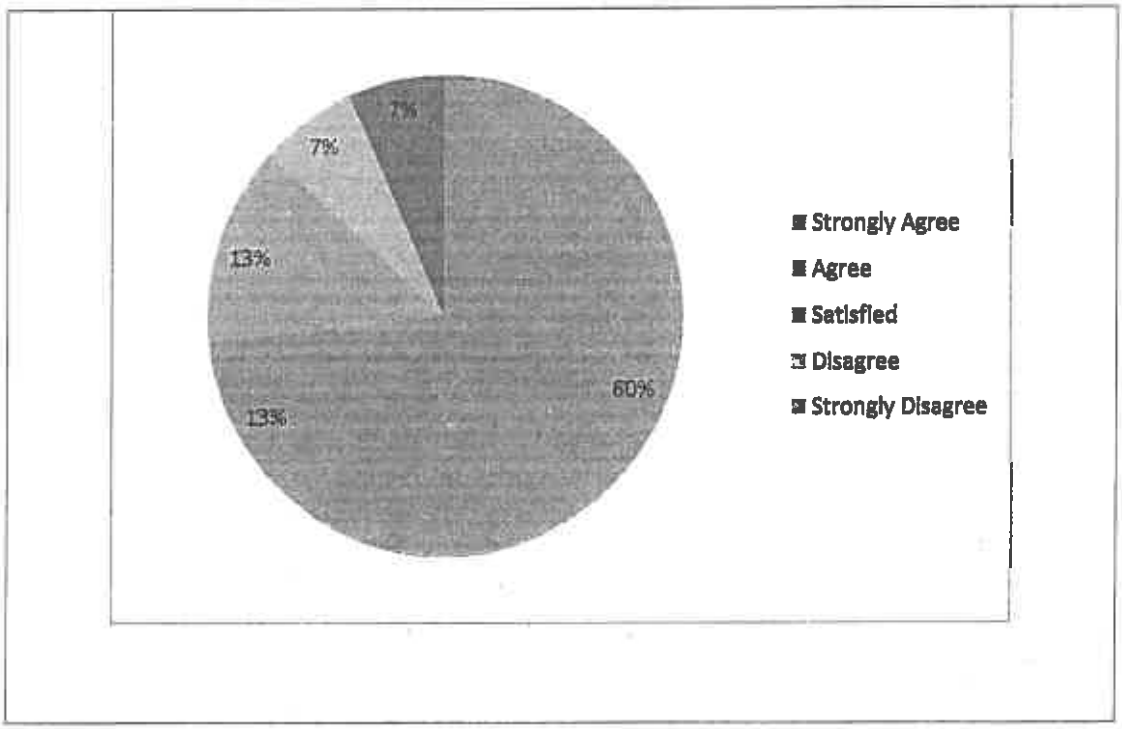
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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	60	13.33	13.33	6.66	6.66

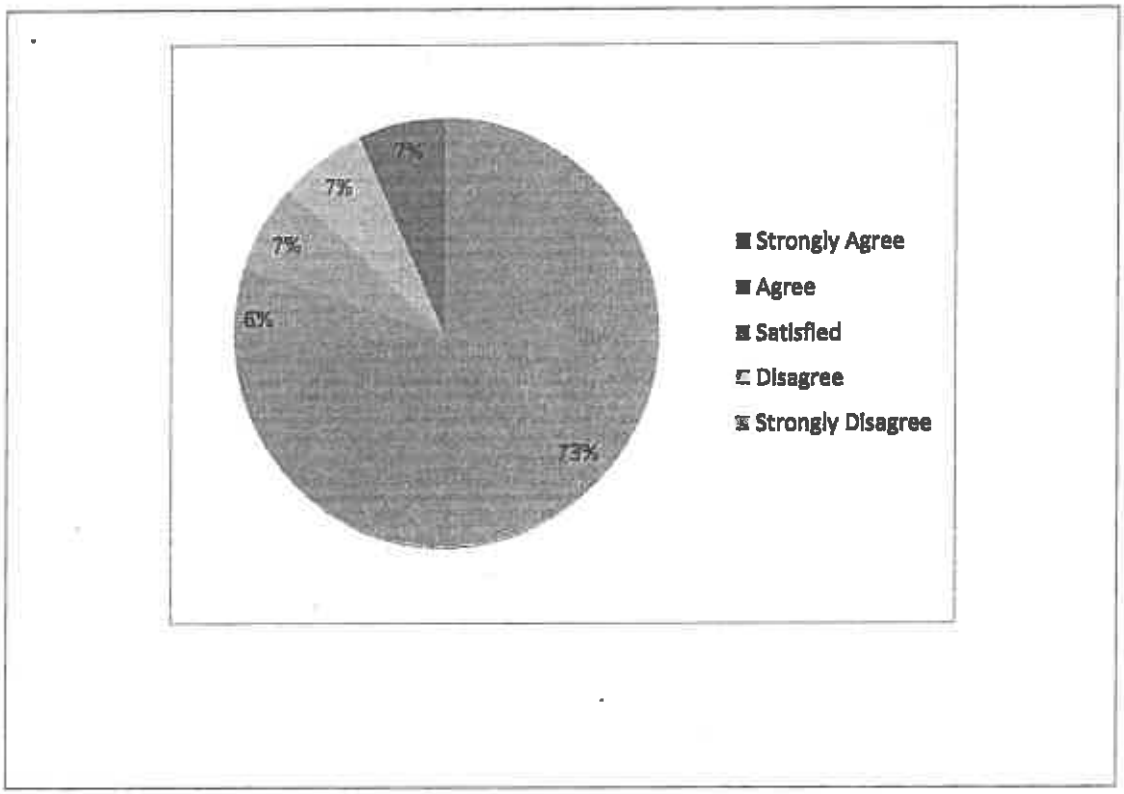
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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	73.33	6.66	6.66	6.66	6.66

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School of Agriculture and Environmental Science(15)						
Total no. of Peer Academicians: 15		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	11.00	1.00	1.00	1.00	1.00
	Percentage	73.33	6.66	6.66	6.66	6.66
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	10.00	2.00	1.00	1.00	1.00
	Percentage	66.66	13.33	6.66	6.66	6.66
The curriculum has adequate scope for multidisciplinary	No. of Academicians	9.00	2.00	2.00	1.00	1.00

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knowledge and sufficient number of elective courses	Percentage	60	13.33	13.33	6.66	6.66
Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	10.00	1.00	2.00	1.00	1.00
	Percentage	66.66	6.66	13.33	6.66	6.66
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	11	1	1	1	1
	Percentage	73.33	6.66	6.66	6.66	6.66
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	10.00	1.00	2.00	1.00	1.00
	Percentage	66.66	6.66	13.33	6.66	6.66
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	10	1	2	1	1
	Percentage	66.66	6.66	13.33	6.66	6.66
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	9	2	2	1	1
	Percentage	60	13.33	13.33	6.66	6.66
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	11	1	1	1	1
	Percentage	73.33	6.66	6.66	6.66	6.66

Analysis of Feedback:

The peer feedback on the curriculum reveals a generally positive but slightly more neutral assessment, with most areas receiving a score of 86.65 to 86.66%. This indicates that the curriculum is perceived as fairly well-structured and aligned with the competencies expected from the program. The syllabus is seen as appropriate in relation to the program's competencies, and the sequence and organization of the courses are viewed as adequate. Additionally, the curriculum provides a decent scope for multidisciplinary knowledge and electives, alongside encouraging self-learning. There is also recognition of the curriculum's ability to foster entrepreneurial skills and industry readiness, though these areas are rated similarly to others, suggesting room for further enhancement. The focus on personality development, human values, and professional ethics is also acknowledged, but similarly, it seems that there might be an opportunity to strengthen this area to make it more impactful. Overall, the curriculum is

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considered well-balanced in terms of theory and application, but with the uniform scores, there may be areas that could benefit from more refinement or focus to elevate the program's overall impact.

Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Strengthen entrepreneurial skills and industry readiness	Introduced specialized training on sustainable farming techniques, agri-business management, and rural entrepreneurship; organized industry exposure visits	Students expressed increased interest in agribusiness ventures and sustainable agriculture practices; several students secured internships in agri-tech startups.
2	Enhance focus on human values, professional ethics, and personality development	Integrated case studies and community engagement projects focused on environmental ethics, ethical farming practices, and social responsibility	Students demonstrated increased awareness of ethical issues related to agriculture and environmental sciences; positive feedback on community involvement.
3	Improve opportunities for self-learning and multidisciplinary knowledge	Expanded elective offerings in fields such as organic farming, environmental law, and agroecology; promoted independent research projects in	Higher student participation in cross-disciplinary research and self-study; enhanced learning experiences in

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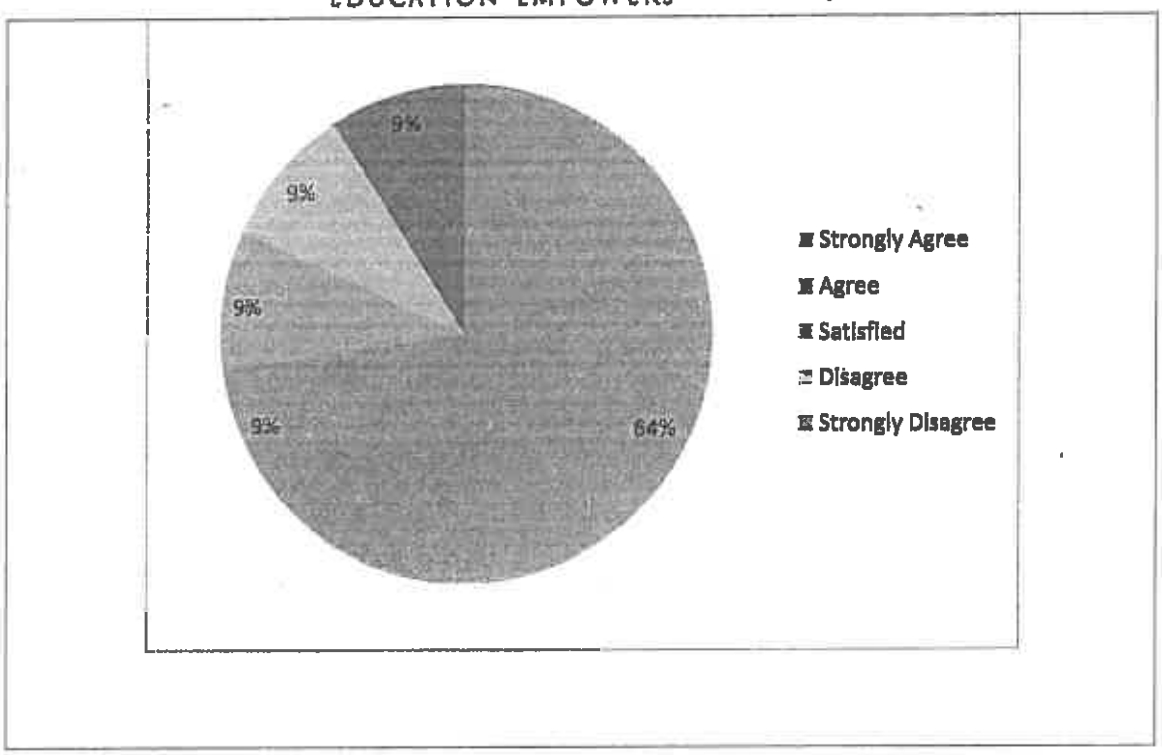
		environmental sustainability	environmental sustainability.
4	Further enhance the balance between theory and application	Increased practical fieldwork and lab sessions in agricultural science courses; introduced more industry-based projects and simulations	Students reported higher engagement and practical understanding of agricultural concepts; better preparation for real-world challenges in agriculture.

Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09

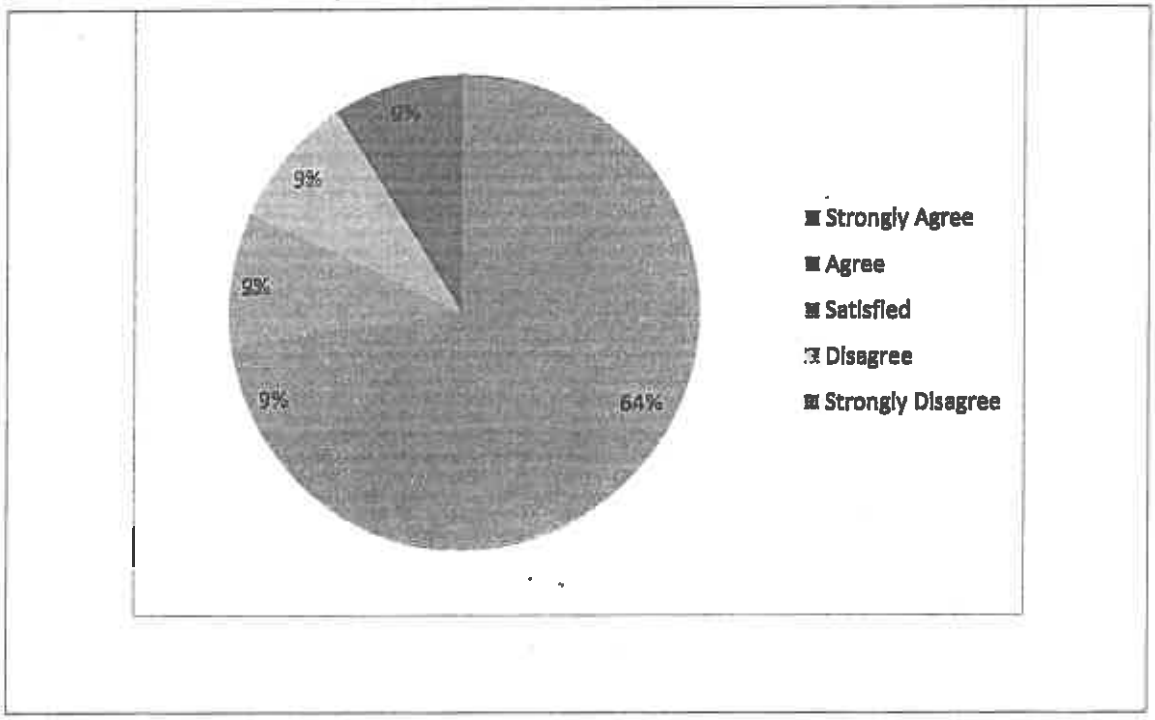
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Q.2 The courses have adequate balance between theory and application for student's holistic development.

The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09

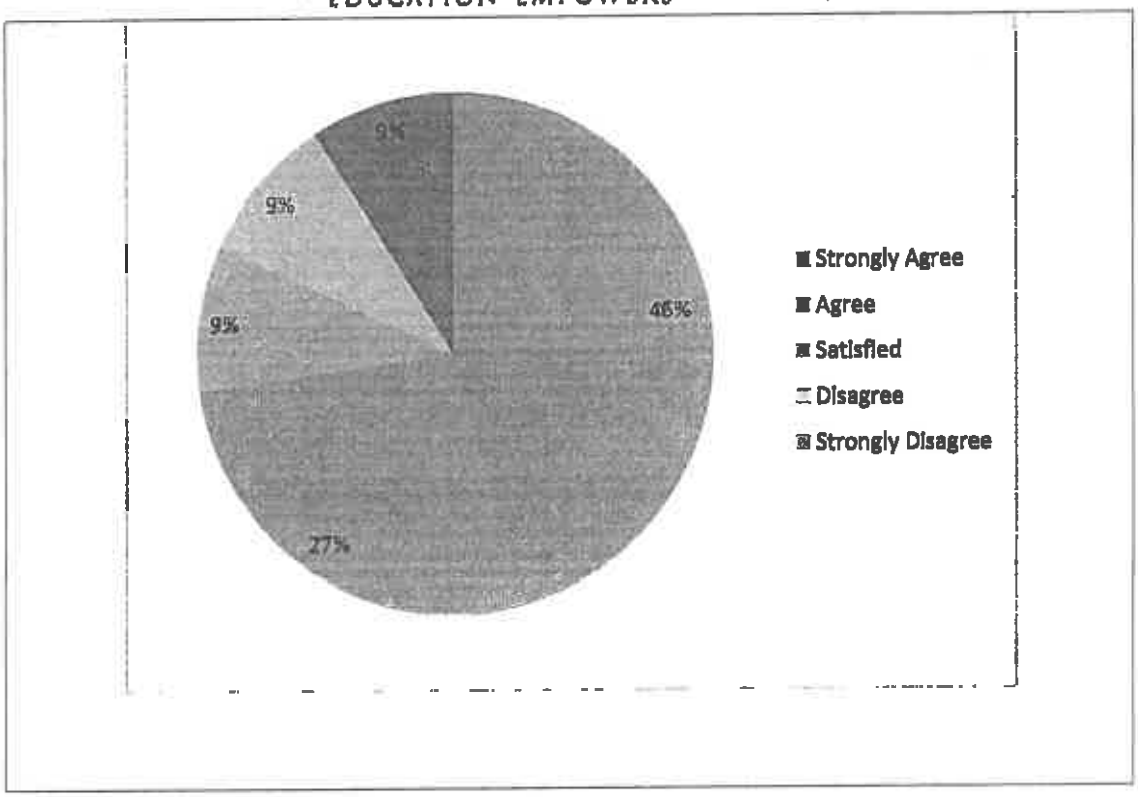
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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09

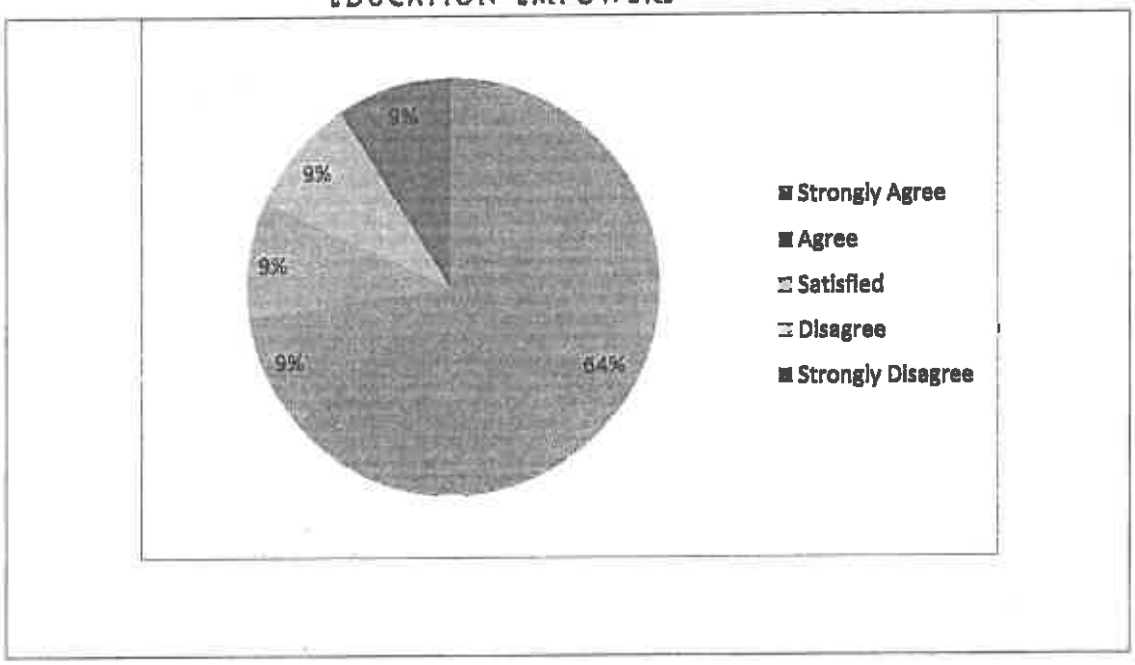
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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	63.64	9.09	9.09	9.09	9.09

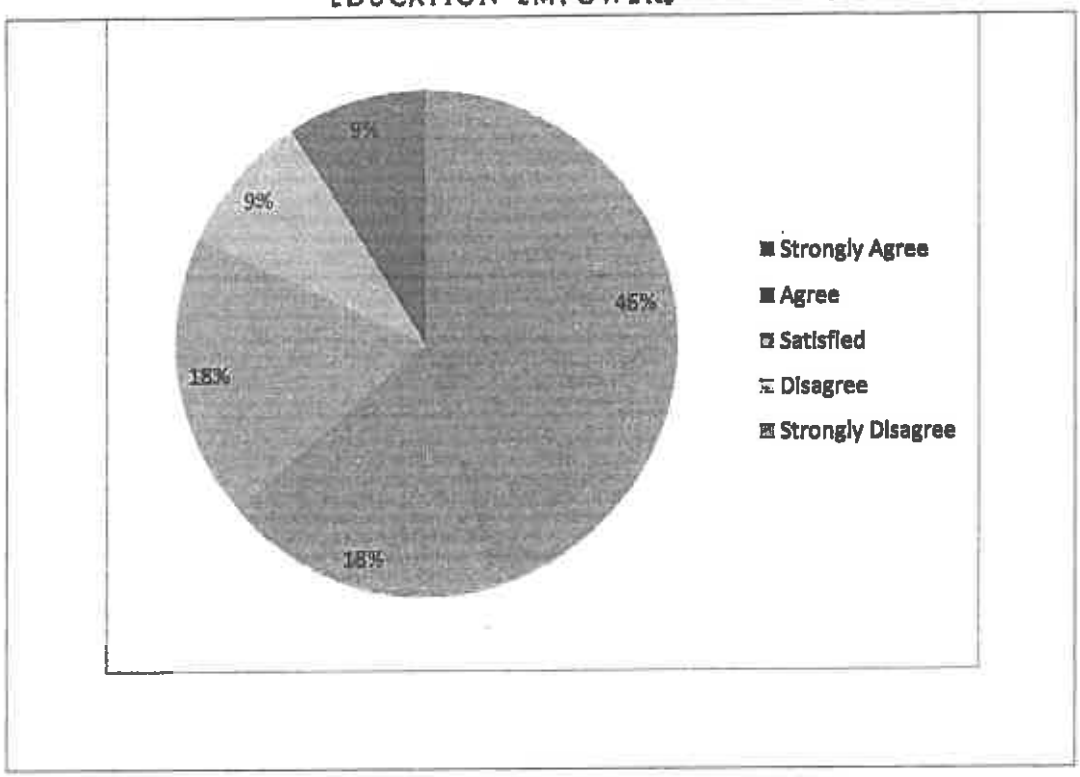
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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	18.18	18.18	9.09	9.09

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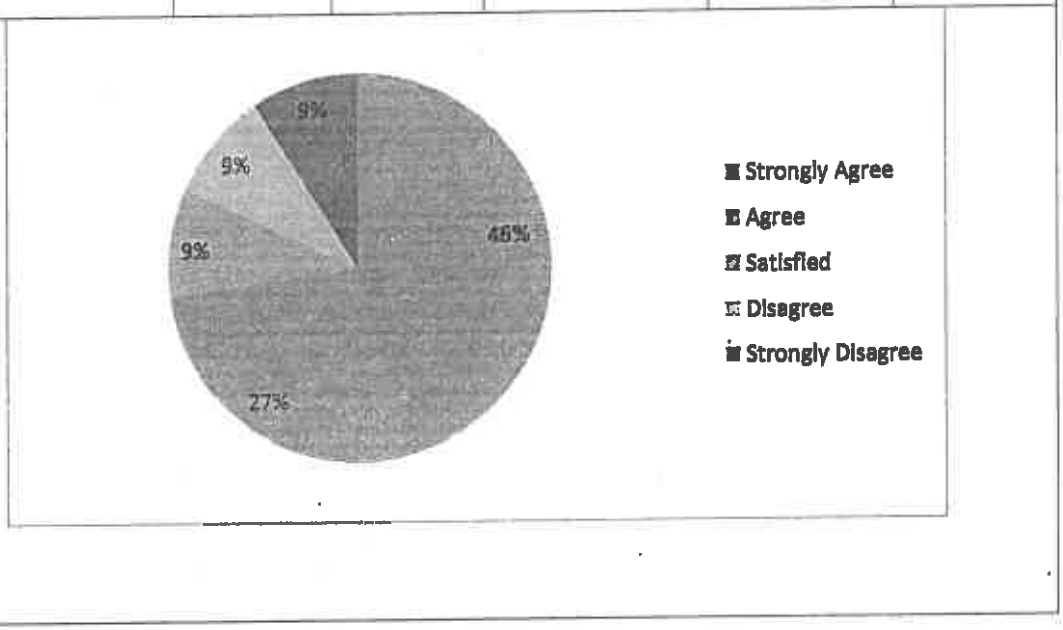


Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree

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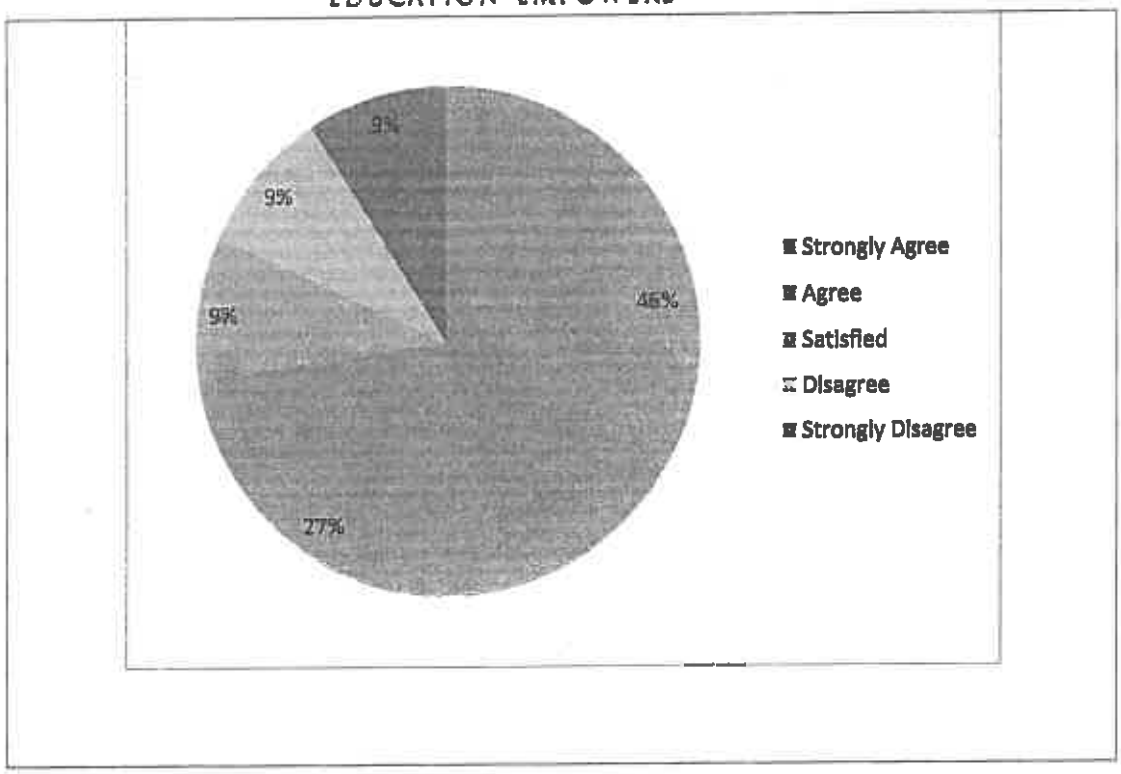
Response (%)	45.45	27.27	9.09	9.09	9.09



Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	27.27	9.09	9.09	9.09

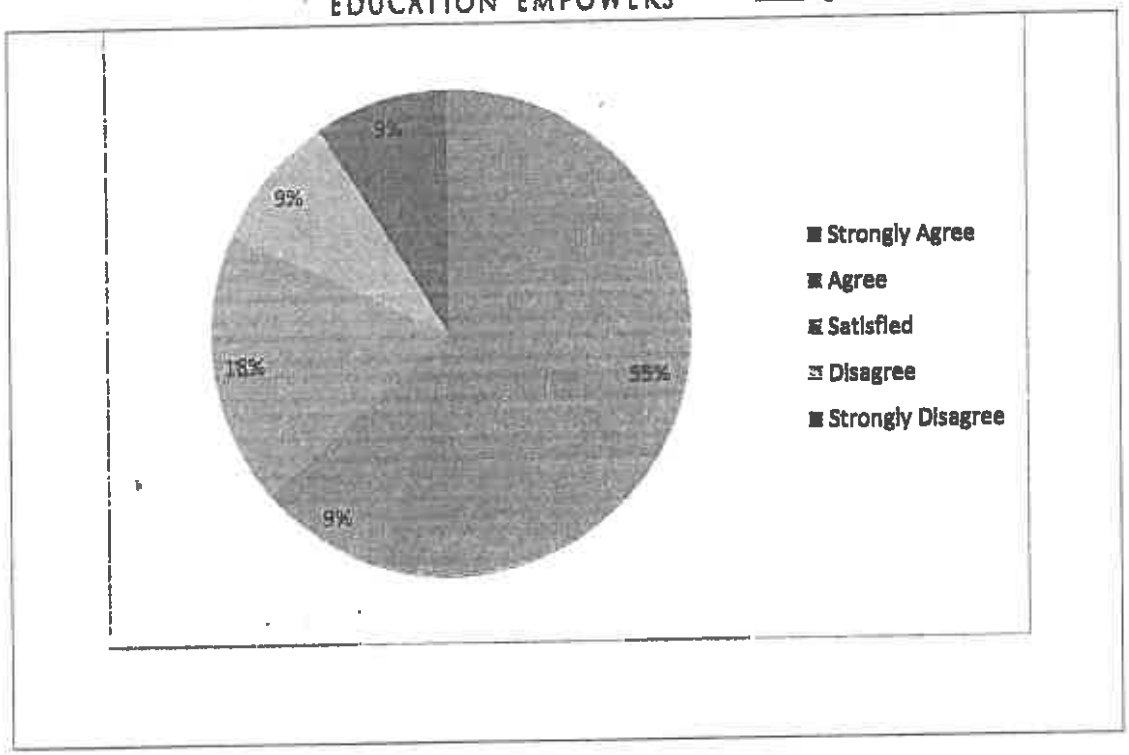
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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.55	9.09	18.18	9.09	9.09

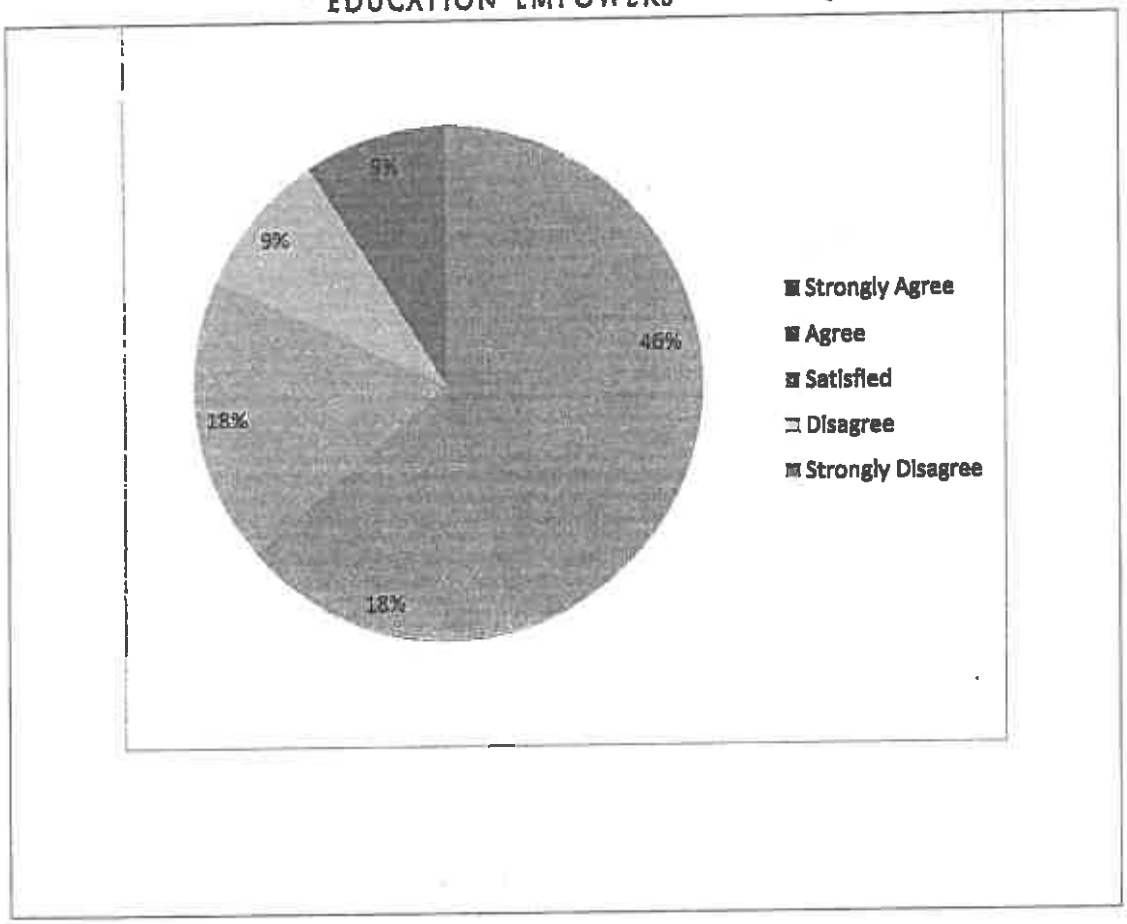
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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	45.45	18.18	18.18	9.09	9.09

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School of Agriculture & Environmental Sciences (11)						
Total no. of Teachers: 11		**Strongly Agree**	**Agree**	**Satisfied**	**Disagree**	**Strongly Disagree**
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09

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The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	5.00	3.00	1.00	1.00	1.00
	Percentage	45.45	27.27	9.09	9.09	9.09
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	7.00	1.00	1.00	1.00	1.00
	Percentage	63.64	9.09	9.09	9.09	9.09
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Teachers	5.00	2.00	2.00	1.00	1.00
	Percentage	45.45	18.18	18.18	9.09	9.09
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	5.00	3.00	1.00	1.00	1.00
	Percentage	45.45	27.27	9.09	9.09	9.09
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	6.00	1.00	2.00	1.00	1.00
	Percentage	54.55	9.09	18.18	9.09	9.09
The existing system for curriculum revision is	No. of Teachers	5.00	2.00	2.00	1.00	1.00

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found to be effective.	Percentage	45.45	18.18	18.18	9.09	9.09

Analysis of Feedback:

The teachers' feedback on the curriculum indicates a consistent and moderately positive assessment across all areas, with each parameter scoring 81.82%. This uniform score suggests that while the curriculum meets expectations across key dimensions—including structure, theoretical and practical balance, multidisciplinary scope, employability, entrepreneurial readiness, and ethical development—there is room for overall enhancement. Faculty members recognize that the curriculum is fundamentally sound and provides a stable foundation for student development. However, the identical ratings imply that improvements are needed not just in isolated areas, but in a comprehensive, systemic manner. The feedback also reflects a decent level of academic freedom and a functioning curriculum revision mechanism, yet these too could be strengthened to foster more innovation and responsiveness to educational trends and stakeholder input.

Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action taken	Outcome
1	Strengthen the integration of theory with real-world agricultural practices	Added more field-based modules, live demonstrations, and collaborative projects with agricultural research centers and local farms	Students demonstrated improved practical skills and better understanding of real-life agricultural applications
2	Expand multidisciplinary and emerging area electives	Introduced new elective courses in agri-business, environmental data analytics, and climate-resilient agriculture through cross-departmental collaboration	Enhanced academic diversity and increased student adaptability for careers in emerging fields
3	Enhance curriculum feedback and review mechanisms	Launched an online feedback portal for regular collection of suggestions from students, alumni, and faculty; implemented	Feedback became more actionable and timely, leading to more responsive curriculum

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		structured curriculum review twice a year	updates
4	Improve employability and industry-readiness	Partnered with agro-industries and NGOs for internships and workshops; introduced soft skills training and job-oriented certifications	Improved placement outcomes and student preparedness for diverse roles in agriculture and environmental sectors

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Annexure-3 (Item BOS 20.4)

Shobhit University, Gangoh

(Established by UP Shobhit University Act No. 3, 2012)

School of Agriculture And Environmental Sciences

Ordinances, Regulations & Syllabus

For

Bachelor of Science in Agriculture (B.Sc.) Four Year Programme
Semester Pattern
(w.e.f. session 2013-14)

Approved and adopted in the year 2023 (22nd Meeting of the Board of Studies)

Shobhit University
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Programme Educational Objectives (PEOs)

PEO 1 Foundational Knowledge: Graduates will possess a strong understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural economics, enabling them to address challenges in the agricultural sector.

PEO 2 Practical Skills: Graduates will develop practical skills in modern agricultural practices, including crop production, pest management, and sustainable farming techniques, allowing them to effectively contribute to agricultural productivity.

PEO 3 Research and Innovation: Graduates will be equipped to engage in research and innovation, utilizing scientific methods to solve agricultural problems and contribute to advancements in the field.

PEO 4 Sustainability and Environmental Stewardship: Graduates will understand the principles of sustainable agriculture and environmental conservation, promoting practices that ensure food security while preserving natural resources.

PEO 5 Communication and Leadership: Graduates will possess effective communication and leadership skills, enabling them to work collaboratively in diverse teams and to advocate for agricultural development and policy changes.

PEO 6 Lifelong Learning: Graduates will be prepared for lifelong learning and professional development, adapting to emerging trends and technologies in agriculture to remain relevant in their careers.

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Programme Specific Objectives (PSO's)

PSO 1 To impart a strong foundation in agricultural science, including plant biology, soil science, and animal husbandry.

PSO 2 To develop practical skills through hands-on training in farming techniques, crop management, and animal care.

PSO 3 To encourage students to engage in research and innovation to address contemporary agricultural challenges, such as food security and sustainable farming.

PSO 4 To promote sustainable agricultural practices that protect the environment and enhance productivity.

PSO5 To familiarize students with the latest agricultural technologies, including precision farming, biotechnology, and data analytics.

PSO6 To provide insights into agricultural economics, marketing, and policy, enabling students to make informed decisions in the agricultural sector.

PSO7 To develop critical thinking and problem-solving skills necessary for effective decision-making in agriculture.

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Programme Outcome Objectives (POO's)

POO 1 Knowledge Application: Demonstrate a comprehensive understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural engineering.
POO 2 Research Skills: Conduct research using scientific methods, including data collection, analysis, and interpretation, to solve agricultural problems.
POO 3 Sustainable Practices: Promote sustainable agricultural practices that enhance productivity while preserving environmental health and biodiversity.
POO 4 Technical Proficiency: Utilize modern agricultural technologies and tools for efficient farming practices, including precision agriculture and biotechnology.
POO 5 Critical Thinking: Analyze and evaluate agricultural policies, practices, and issues critically, fostering informed decision-making.
POO 6 Communication Skills: Communicate effectively, both verbally and in writing, to diverse audiences, including farmers, policymakers, and the general public.
POO 7 Teamwork and Leadership: Work collaboratively in teams, demonstrating leadership skills in agricultural projects and initiatives.
POO 8 Economic Understanding: Understand the economic principles related to agricultural production, marketing, and management.
POO 9 Ethics and Responsibility: Uphold ethical standards in agricultural practices, considering social responsibilities and the impact on communities.
POO 10 Lifelong Learning: Foster a commitment to continuous learning and professional development in the agricultural sector.

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Course Structure

Ordinance and Regulations

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B.Sc. Ag. Hons. II Semester Syllabus

Core Course (CC-1)

BAG-102: Fundamentals of Genetics

CO: COURSE OBJECTIVE

CO-1 Introduction to Genetic Principles: Understand the foundational principles of inheritance, including Mendelian and non-Mendelian genetics.

CO-2 Chromosomal Basis of Inheritance: Explore the structure and function of chromosomes and their role in heredity.

CO-3 Molecular Genetics: Analyze the molecular structure of DNA and RNA and their roles in replication, transcription, and translation.

CO-4 Gene Expression and Regulation: Understand how genes are regulated and expressed in prokaryotic and eukaryotic systems.

CO-5 Mutations and Genetic Variation: Study types of mutations, their mechanisms, and their effects on organisms.

CO-6 Population Genetics: Learn about genetic variation within populations and the principles of Hardy-Weinberg equilibrium.

CO-7 Genetic Tools and Technologies: Explore modern genetic tools such as CRISPR, PCR, and gene sequencing techniques.

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Course Content

Unit- I:

- Pre and Post Mendelian concepts of heredity, Mendelian principles of heredity. Architecture of chromosome; chromonemata, chromosome matrix, chromomeres, centromere, secondary constriction and telomere; special types of chromosomes.

Unit- II:

- Chromosomal theory of inheritance- cell cycle and cell division- mitosis and meiosis. Probability and Chi-square. Dominance relationships, Epistatic interactions with example.

Unit- III:

- Multiple alleles, pleiotropism and pseudoalleles, Sex determination and sex linkage, sex limited and sex influenced traits, Blood group genetics, Linkage and its estimation, crossing over mechanisms, chromosome mapping.

Unit- IV:

- Structural and numerical variations in chromosome andtheir implications, Use of haploids, dihaploids and doubled haploids in Genetics. Mutation, classification, Methods of inducing mutations & CIB technique, mutagenic agents and induction of mutation. Qualitative & Quantitative traits, Polygenes and continuous variations, multiple factor hypothesis, Cytoplasmic inheritance. Genetic disorders.

Unit- V:

- Nature, structure & replication of genetic material. Protein synthesis, Transcription and translational mechanism of genetic material, Gene concept: Gene structure, function and regulation, Lac and Trp operons.

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Practical:

Study of microscope. Study of cell structure. Mitosis and Meiosis cell division. Experiments on monohybrid, dihybrid, trihybrid, test cross and back cross, Experiments on epistatic interactions including test cross and back cross, Practice on mitotic and meiotic cell division, Experiments on probability and Chi-square test. Determination of linkage and cross-over analysis (through two point test cross and three point test cross data). Study on sex linked inheritance in Drosophila. Study of models on DNA and RNA structures.

Suggested Readings

□ **"Genetics: Analysis and Principles"**
Author: Robert J. Brooker

□ **"Principles of Genetics"**
Authors: D. Peter Snustad and Michael J. Simmons

□ **"Genetics: From Genes to Genomes"**
Authors: Leland H. Hartwell, Michael L. Goldberg, Janice Fischer, and Leroy Hood

□ **"Concepts of Genetics"**
Authors: William S. Klug, Michael R. Cummings, Charlotte A. Spencer, Michael A. Palladino

□ **"Fundamentals of Genetics"**
Author: B.I. Balinsky (some versions co-authored with E.J. Du Preez)

□ **"Fundamentals of Genetics"**
Author: Peter J. Russell

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B.Sc. Ag. Hons. II Semester Syllabus

Core Course (CC-1)

BAG-112: Fundamentals of Plant Pathology

CO: COURSE OBJECTIVE

CO-1 Understanding the Principles of Plant Pathology: Introduce the basic concepts of plant pathology, including disease causation, host-pathogen interactions, and disease development.

CO-2 Identification of Pathogens: Study different types of plant pathogens such as fungi, bacteria, viruses, nematodes, and phytoplasmas. Learn techniques for identifying these pathogens and understanding their life cycles.

CO-3 Mechanisms of Disease Development: Explore the process of infection, how pathogens attack plants, and the factors that influence disease progression.

CO-4 Symptoms and Diagnosis of Plant Diseases: Learn to recognize and diagnose various symptoms of plant diseases, such as lesions, wilting, chlorosis, and necrosis.

CO-5 Epidemiology of Plant Diseases: Study the factors that influence the spread of diseases, such as environmental conditions, crop rotation, and human activities.

CO-6 Plant Disease Management: Examine different methods of controlling plant diseases, including chemical, biological, cultural, and genetic approaches.

CO-7 Impact of Plant Diseases: Understand the economic and ecological impact of plant diseases on agriculture, forestry, and natural ecosystems.

CO-8 Research and Advances in Plant Pathology: Discuss the latest developments in the field, including new technologies for pathogen detection and disease management strategies.

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Course Contents

Unit- I:

- Introduction: Importance of plant diseases, scope and objectives of Plant Pathology. History of Plant Pathology with special reference to Indian work. Terms and concepts in Plant Pathology. Pathogenesis. Causes / factors affecting disease development: disease triangle and tetrahedron and classification of plant diseases. Important plant pathogenic organisms, different groups: fungi, bacteria, fastidious vesicular bacteria, phytoplasmas, spiroplasmas, viruses, viroids, algae, protozoa, phanerogamic parasites and nematodes with examples of diseases caused by them. Diseases and symptomsdue to abiotic causes.

Unit- II:

- Fungi: general characters, definition of fungus, somatic structures, types of fungal thalli, fungal tissues, modifications of thallus, reproduction (asexual and sexual). Nomenclature, Binomial system of nomenclature, rules of nomenclature, classification of fungi. Key to divisions, sub-divisions, orders and classes.

Unit- III:

- Bacteria and mollicutes: general morphological characters. Basic methods of classification and reproduction. Viruses: nature, structure, replication and transmission. Study of phanerogamic plant parasites.

Unit- IV:

- Nematodes: General morphology and reproduction, classification, symptoms and nature of damage caused by plant nematodes (Heterodera, Meloidogyne, Anguina, Radopholusetc.) Growth and reproduction of plant pathogens. Liberation / dispersal and survival of plant pathogens. Types of parasitism and variability in plant pathogens. Pathogenesis. Role of enzymes, toxins and growth regulators in disease development. Defense mechanism in plants.

Unit- V:

- Epidemiology: Factors affecting disease development. Principles and methods of plant disease management. Nature, chemical combination, classification, mode of action and formulations of fungicides and antibiotics.

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Practical:

Acquaintance with various laboratory equipments and microscopy. Collection and preservation of disease specimen. Preparation of media, isolation and Koch's postulates General study of different structures of fungi. Study of symptoms of various plant diseases. Study of representative fungal genera. Staining and identification of plant pathogenic bacteria. Transmission of plant viruses. Study of phanerogamic plant parasites.

Study of morphological features and identification of plant parasitic nematodes. Sampling and extraction of nematodes from soil and plant material, preparation of nematode mounting. Study of fungicides and their formulations. Methods of pesticide application and their safe use. Calculation of fungicide sprays concentrations.

Suggested Readings

• **"Fundamentals of Plant Pathology"**
Author: R.S. Singh

• **"Plant Pathology"**
Author: George N. Agrios

• **"Fundamentals of Plant Pathology"**
Authors: S.H. Mantell and J.R. Matthews

• **"Plant Pathology: Concepts and Laboratory Exercises"**
Authors: Bonnie H. Ownley and Robert N. Trigiano

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Annexure- 4 (Item BOS 20.5)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2022-2023)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102. Fundamentals of Genetics	External Examiner 1. Dr. S. K. Singh, Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr.AshvaniPanwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr.AyushBahuguna , Assistant Professor, (CCSR PG College, Muzaffarnagar)	7668586615 ayushbahuguna1995@gmail.com

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		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor (CCSR PG College, Muzaffarnagar)	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor (CCSR PG College, Muzaffarnagar)	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890

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			shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in

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7)	BAG-114 Fundamentals of Entomology	Internal Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor (CCSR PG College, Muzaffarnagar	+91-7988338378 rabeesh4700@gmail.com
		1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
9)	BAG-118 Communication Skills and	1. Dr. Rabeesh Kumar Verma Assistant Professor (CCSR PG College, Muzaffarnagar	+91-7988338378 rabeesh4700@gmail.com

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	Personality Development	2. Dr. L. B. Singh Professor , SVBPUAT Meerut	09450155766 dr.lbsingh@gmail.com
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, (CCSR PG College, Muzaffarnagar)	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+ 91-9411039192, 8630896418 Email: singhjp2005@gmail.com
		Internal Examiner 1 Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
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12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1 Dr. Mahemdru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor (CCSR PG College, Muzaffarnagar)	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
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		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology for Fruit and Plantation Crops	External Examiner 1. Dr. Rakesh Kumar Singh Professor, (CCSR PG College, Muzaffarnagar)	9412113662 hahe1624@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com

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		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
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		Internal Examiner 1. Dr Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
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17)	BAG-216 Agricultural Marketing Trade &	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com

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18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Professor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
19)	BAG-304 Protected Cultivation and Secondary Agriculture	External Examiner 1. Dr. Rabeesh Kumar Verma Assistant Professor (CCSR PG College, Muzaffarnagar	+91-7988338378 rabeesh4700@gmail.com
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20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
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21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
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		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com

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		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279

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			deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management, Production & Resource Economics	External Examiner 1. Dr. Adesh Kumar Assistant Professor SVBPUAT, Meerut	09412628586 adeshsingh29@rediffmail.com
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

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Signed by:

(Chairman, BOS)

(Dean Academies)

(Vice Chancellor)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 17.06.2023

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 27.06.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 20th BOS Meeting held on 22 Dec. 2022 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Approval of modification in the Syllabus of 3rd & 5th semester B. Sc. Agriculture
3. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. For session **July to Dec. 2023.**
4. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairman, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 17.06.2023

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 27.06.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards

SHOBHIT UNIVERSITY GANGOH

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 17.06.2023

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 27.06.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm Regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences ★ H.o.D. ★ SHOBHIT UNIVERSITY GANGOH

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 27.06.2023

Attendance Sheet (21th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C. S. Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	

Chairman

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 27.06.2023

Minutes of the Meeting of Board of Studies

21st meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 27th June 2023 at 10:00 am onwards. The following members were present in the meeting:

1. Dr. Shivani — Chairperson
   Asstt. Professor & Head
   School of Business Studies & Entrepreneurship
   Shobhit University Gangoh
2. Dr. D. V. Singh — External expert
   Principal
   Vidyadeep Degree College
   Bilaspur Saharanpur
3. Dr. C. S. Singh — External Expert
   Associate Professor
   Gochar Mahavidyalaya
   Rampur Maniharan Saharanpur
4. Dr. Vikas Kumar — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
5. Mr. Amit Kumar — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

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The following discussed and approved on Choice Based Credit system:

Item BOS 21.1: Approval of the Minutes of the 20th BOS Meeting held on 22 Dec. 2022 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 21.2: Approval of modification in the Syllabus of 3rd & 5th semester B.Sc. Agriculture (Hons.) {Annexure-2}

- **BOS members approved Syllabus of 3rd semester-course code BAG-203 & BAG-217.**
- **BOS members approved Syllabus of 5th semester-course code: BAG-307.**

Item BOS 21.3: Approval of Examiners (Theory & Practical) and Paper Setters for the **odd semester courses in B.Sc. Ag. Hons. for session July to Dec. 2023** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 21.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)
School of Agriculture & Food Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academics)

(Vice Chancellor)

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Annexure-1 (Item BOS-21.1)

School of Agriculture & Environmental Sciences

Date: 22.12.2022

Minutes of the Meeting of Board of Studies

20th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 22nd Dec. 2022 at 10:00 am onwards. The following members were present in the meeting:

1. Dr. Shivani — Chairperson
   Asstt. Professor & Head
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
2. Dr. D. V. Singh — External expert
   Principal
   Vidyadeep Degree College
   Bilaspur Saharanpur
3. Dr. C. S. Singh — External Expert
   Associate Professor
   Gochar Mahavidyalaya
   Rampur Maniharan Saharanpur
4. Dr. Vikas Kumar — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh
5. Dr. Mohd. Vaseem — Member
   Asstt. Professor
   School of Agriculture & Environmental Sciences
   Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

The following discussed and approved on Elective Course System:

Item BOS 20.1: Approval of the Minutes of the 19th BOS Meeting held on 23 June 2022
Was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 20.2: Analysis of Students' feedback & Action taken report:

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- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 20.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 20.4: Approval of modification in the syllabus of B.Sc. Ag. Hons. 2nd Sem. {Annexure-3}

- **BOS members approved the changes in syllabus of BAG-102 & BAG-112 in 2nd semester of B.Sc. Agriculture Hons.**

Item BOS 20.5: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2023** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-4}

Item BOS 20.6: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY
GANGOH
H.O.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)
(Dean Academies)

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Annexure-2 (Item BOS 21.2)

Shobhit University, Gangoh

(Established by UP Shobhit University Act No. 3, 2012)

School of Agriculture and Environmental Sciences

Ordinances, Regulations & Syllabus

For

Bachelor of Science in Agriculture (B.Sc.) Four Year Programme Semester Pattern

(w.e.f. session 2013-14)

Approved and adopted in the year 2023 (21st Meeting of the Board of Studies)

Shobhit University
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Programme Educational Objectives (PEOs)

PEO 1 Foundational Knowledge: Graduates will possess a strong understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural economics, enabling them to address challenges in the agricultural sector.

PEO 2 Practical Skills: Graduates will develop practical skills in modern agricultural practices, including crop production, pest management, and sustainable farming techniques, allowing them to effectively contribute to agricultural productivity.

PEO 3 Research and Innovation: Graduates will be equipped to engage in research and innovation, utilizing scientific methods to solve agricultural problems and contribute to advancements in the field.

PEO 4 Sustainability and Environmental Stewardship: Graduates will understand the principles of sustainable agriculture and environmental conservation, promoting practices that ensure food security while preserving natural resources.

PEO 5 Communication and Leadership: Graduates will possess effective communication and leadership skills, enabling them to work collaboratively in diverse teams and to advocate for agricultural development and policy changes.

PEO 6 Lifelong Learning: Graduates will be prepared for lifelong learning and professional development, adapting to emerging trends and technologies in agriculture to remain relevant in their careers.

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Programme Specific Objectives (PSO's)

PSO 1 To impart a strong foundation in agricultural science, including plant biology, soil science, and animal husbandry.

PSO 2 To develop practical skills through hands-on training in farming techniques, crop management, and animal care.

PSO 3 To encourage students to engage in research and innovation to address contemporary agricultural challenges, such as food security and sustainable farming.

PSO 4 To promote sustainable agricultural practices that protect the environment and enhance productivity.

PSO5 To familiarize students with the latest agricultural technologies, including precision farming, biotechnology, and data analytics.

PSO6 To provide insights into agricultural economics, marketing, and policy, enabling students to make informed decisions in the agricultural sector.

PSO7 To develop critical thinking and problem-solving skills necessary for effective decision-making in agriculture.

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Programme Outcome Objectives (POO's)

POO 1 Knowledge Application: Demonstrate a comprehensive understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural engineering.

POO 2 Research Skills: Conduct research using scientific methods, including data collection, analysis, and interpretation, to solve agricultural problems.

POO 3 Sustainable Practices: Promote sustainable agricultural practices that enhance productivity while preserving environmental health and biodiversity.

POO 4 Technical Proficiency: Utilize modern agricultural technologies and tools for efficient farming practices, including precision agriculture and biotechnology.

POO 5 Critical Thinking: Analyze and evaluate agricultural policies, practices, and issues critically, fostering informed decision-making.

POO 6 Communication Skills: Communicate effectively, both verbally and in writing, to diverse audiences, including farmers, policymakers, and the general public.

POO 7 Teamwork and Leadership: Work collaboratively in teams, demonstrating leadership skills in agricultural projects and initiatives.

POO 8 Economic Understanding: Understand the economic principles related to agricultural production, marketing, and management.

POO 9 Ethics and Responsibility: Uphold ethical standards in agricultural practices, considering social responsibilities and the impact on communities.

POO 10 Lifelong Learning: Foster a commitment to continuous learning and professional development in the agricultural sector.

Course Structure

Ordinance and Regulations

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B.Sc. Ag. Hons. 3rd Semester Syllabus

Core Course (CC-1)

BAG-203: Fundamentals of Plant Breeding

CO: COURSE OBJECTIVES

CO-1 Understanding Genetic Principles: To provide students with a solid foundation in the principles of genetics and heredity as they relate to plant breeding.

CO-2 Breeding Methods: To familiarize students with various plant breeding techniques, including traditional and modern methods such as hybridization, selection, and biotechnology.

CO-3 Crop Improvement: To explore strategies for improving crop yield, quality, and resistance to pests and diseases through breeding programs.

CO-4 Evaluation of Breeding Lines: To teach students how to evaluate and select superior breeding lines based on phenotypic and genotypic traits.

CO-5 Plant Breeding Research: To develop skills in designing and conducting breeding experiments, including data collection and analysis.

CO-6 Ethical Considerations: To instill an understanding of the ethical implications and societal impacts of plant breeding practices.

CO-7 Application of Biotechnological Tools: To introduce students to biotechnological tools and techniques, such as molecular markers and genetic engineering, used in modern plant breeding.

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Course Contents

Unit- I:

Historical development, concept, nature and role of plant breeding, major achievements and future prospects; Genetics in relation to plant breeding, modes of reproduction and apomixes, self-in compatibility and male sterility- genetic consequences, cultivar options. Domestication.

Unit- II:

Acclimatization and Introduction; Centres of origin/ diversity, components of Genetic variation; Heritability and genetic advance; Genetic basis and breeding methods in self- pollinated crops - mass and pure line selection, hybridization techniques and handling of segregating population.

Unit- III:

Multiline concept. Concepts of population genetics and Hardy-Weinberg Law, Genetic basis and methods of breeding cross pollinated crops, modes of selection; Population improvement Schemes- Ear to row method, Modified Ear to Row, recurrent selection schemes; Heterosis and inbreeding depression, development of inbred lines and hybrids, composite and synthetic varieties.

Unit- IV:

Breeding methods in asexually propagated crops, clonal selection and hybridization; Maintenance of breeding records and data collection; Wide hybridization and pre-breeding; Polyploidy in relation to plant breeding, mutation breeding-methods and uses.

Unit- V:

Breeding for important biotic and abiotic stresses; Biotechnological tools-DNA markers and marker assisted selection. Participatory plant breeding; Intellectual Property Rights, Patenting, Plant Breeders and & Farmer's Rights.

Practical:

Plant Breeder's kit, Study of germplasm of various crops. Study of floral structure of self-pollinated and cross pollinated crops. Emasculation and hybridization techniques in self & cross pollinated crops. Consequences of inbreeding on genetic structure of resulting populations. Study of male sterility system. Handling of segregation populations. Methods of calculating mean, range, variance, standard deviation, heritability. Designs used in plant breeding experiments, analysis of Randomized Block Design. To work out the mode of pollination in a given crop and extent of natural out-crossing. Prediction of performance of double cross hybrids.

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B.Sc. Ag. Hons. 3rd Semester Syllabus

Core Course (CC-1)

BAG-217: Livestock and Poultry Management

CO: COURSE OBJECTIVES

CO-1 Understanding Animal Husbandry Practices: To equip students with fundamental knowledge of livestock and poultry management practices, including breeding, feeding, health care, and housing.

CO-2 Animal Nutrition: To teach students about the nutritional requirements of various livestock and poultry species and how to formulate balanced rations.

CO-3 Health Management: To familiarize students with common diseases in livestock and poultry; their prevention, diagnosis, and treatment options.

CO-4 Breeding Techniques: To provide insights into various breeding techniques, including traditional and advanced methods, to improve genetic stock.

CO-5 Production Systems: To explore different production systems and their management, including intensive and extensive systems, and their economic implications.

CO-6 Sustainable Practices: To promote sustainable livestock and poultry management practices that minimize environmental impact while maximizing productivity.

CO-7 Regulatory Standards: To understand the legal and regulatory frameworks governing livestock and poultry production, including animal welfare standards.

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Course Contents

Unit- I:

Role of livestock in the national economy. Reproduction in farm animals and poultry. Housing principles, space requirements for different species of livestock and poultry. Management of calves, growing heifers and milch animals.

Unit- II:

Management of sheep, goat and swine. Incubation, hatching and brooding. Management of growers and layers. Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry. Improvement of farm animals and poultry.

Unit- III:

Digestion in livestock and poultry. Classification of feedstuffs. Proximate principles of feed. Nutrients and their functions. Feed ingredients for ration for livestock and poultry. Feed supplements and feed additives. Feeding of livestock and poultry.

Unit- IV:

Introduction of livestock and poultry diseases. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.

Practical:

External body parts of cattle, buffalo, sheep, goat, swine and poultry. Handling and restraining of livestock. Identification methods of farm animals and poultry. Visit to IDF and IPF to study breeds of livestock and poultry and daily routine farm operations and farm records. Judging of cattle, buffalo and poultry. Culling of livestock and poultry. Planning and layout of housing for different types of livestock. Computation of rations for livestock. Formulation of concentrate mixtures. Clean milk production, milking methods. Hatchery operations, incubation and hatching equipments. Management of chicks, growers and layers. Debeaking, dusting and vaccination. Economics of cattle, buffalo, sheep, goat, swine and poultry production.

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B.Sc. Ag. Hons. Vth Semester Syllabus

Core Course (CC-1)

BAG-307: Diseases of Field and Horticultural Crops and their Management I

CO: COURSE OBJECTIVES

CO-1 Understanding Plant Diseases: To familiarize students with the various diseases affecting field and horticultural crops, including their symptoms, etiology, and epidemiology.

CO-2 Diagnosis and Identification: To develop the ability to identify and diagnose crop diseases based on visible symptoms, causal agents, and environmental factors.

CO-3 Pathogen Biology: To understand the biology, life cycle, and interaction of pathogens with host plants, contributing to the development of diseases.

CO-4 Disease Management Practices: To study and analyze various disease management strategies, including cultural, chemical, biological, and integrated pest management (IPM) approaches.

CO-5 Economic Impact Assessment: To assess the economic impact of diseases on crop production and explore cost-effective and sustainable management practices.

CO-6 Latest Technologies and Research: To introduce students to modern tools and techniques such as disease forecasting models, molecular diagnostics, and biotechnological approaches in disease management.

CO-7 Practical Applications: To provide hands-on training in field diagnosis, sample collection, pathogen isolation, and identification techniques for effective disease management.

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Course Contents

Unit- I:

- Symptoms, etiology, disease cycle and management of major diseases of following crops: Field Crops: Rice: blast, brown spot, bacterial blight, sheath blight, false smut, khaira and tungro; Maize: stalk rots, downy mildew, leaf spots; Sorghum: smuts, grain mold and anthracnose, Bajra :downy mildew and ergot; Groundnut: early and late leaf spots, wilt

Unit- II:

- Soybean: Rhizoctonia blight, bacterial spot, seed and seedling rot and mosaic; Pigeonpea: Phytophthora blight, wilt and sterility mosaic; Fingermillet: Blast and leaf spot; Black&greengram: Cercospora leaf spot and anthracnose, web blight and yellow mosaic; Castor: Phytophthora blight; Tobacco: black shank, black root rot and mosaic.

Unit- III:

- Horticultural Crops: Guava: wilt and anthracnose; Banana: Panama wilt, bacterial wilt, Sigatoka and bunchy top; Papaya: foot rot, leaf curl and mosaic, Pomegranate: bacterial blight; Cruciferous vegetables: Alternaria leaf spot andblack rot;

Unit- IV:

- Brinjal: Phomopsis blight and fruit rot and Sclerotinia blight; Tomato: damping off, wilt, early and late blight, buck eye rot and leaf curl and mosaic; Okra: Yellow Vein Mosaic; Beans: anthracnose and bacterial blight; Ginger: soft rot; Colocasia: Phytophthora blight; Coconut: wilt and bud rot; Tea: blister blight; Coffee: rust

Practical:

Identification and histopathological studies of selected diseases of field and horticultural crops covered in theory. Field visit for the diagnosis of field problems. Collection and preservation of plant diseased specimens for Herbarium; Note: Students should submit 50 pressed and well- mounted specimens.

Suggested Readings

- **Bhagyashree Khamari & Rakesh Roshan Satapathy**: They co-authored *Diseases of Field and Horticultural Crops and Their Management*, published by NIPA in 2023.

- **Dhananjay Kathal**: Authored a book with the same title, published by Jaya Publishing House in 2022.

- **Sanjeev Kumar**: Wrote *Diseases of Field and Horticultural Crops and Their Management – I*, published by Brillion Publishing in 2020.

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Annexure-3 (Item BOS 21.3)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2023-2024)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor, GMV Rampur	9675000234 amit.tomar371@gmail.com

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		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891
		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com

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7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar Associate Professor SUM	8171418088 anil.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Vishvash Chand	928609396 vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in

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		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.	Human Values/Ethics (non gradial) (BAG-121)	External Examiner 1. Dr. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	96904123508090506371 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Crop Production Technology – I *(Kharif Crops)* (BAG-201)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com

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		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amit.kumar@gmail.com
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri- Informatics (BAG-207)	External Examiner 1. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@ shobhituniversity.ac.in
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Sagar Panwar	8273439389 sagar.panwar@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com

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5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum University Roorki	9557471931 asheeshmalik.9@gmail.com
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com
		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and Disaster Management (BAG-213)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com

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		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com
		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Principles of Integrated Pest and Disease Management (BAG-301)	External Examiner 1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	9412680873 harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in

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2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.com
		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr.Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management –I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University Roorkee	9557471931 asheeshmalik.9@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-309)	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com
		2. Dr. Amit Kumar Assistant Professor	9675000234 amithorti95@gmail.com

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		GMV Rampur	
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. KamleshShukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. DeepaSaini, Lecturer, Dept. of Management Studies, Asian Group of College, Saharanpur	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity

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9.	Intellectual Property Rights (BAG-317)	External Examiner 1. Dr C.S. Singh Associate Professor GMV Rampur	9837191293 singhcs25@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsingh852@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
10.	Food Safety and Standards (BAG-319)	External Examiner 1. Dr Amit Kumar Assistant Professor GMV Rampur	8954712290 amithorti95@gmail.com
		2. Dr. Om Singh Associate Professor GMV Rampur	9719612532 omsing2006@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Neeraj Kumar	9690412350 neerajmandhar123@gmail.com

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Deah, Academies)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 11.12.2023

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 21.12.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 21st BOS Meeting held on 27 June 2023 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. **Analysis of Students' feedback & Action taken report:**
3. **Analysis of the feedback on curriculum from stakeholders:**
4. Approval of modification in the Syllabus of 4th & 6th Semester in B.Sc. Agriculture Hons.
5. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2024.**
6. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences ★ SHOBHIT UNIVERSITY GANGOH ★ H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 11.12.2023

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 21.12.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture SHOBHIT UNIVERSITY GANGOH H.o.D.

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 11.12.2023

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 21.12.2023
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY
GANGOH
H.o.D.

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 21.12.2023

Attendance Sheet (22th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C. S. Singh	External	
3.	Dr. Vikas	Internal	
4.	Dr. Mohd. Vaseem	Internal	

Chairman

School of Agriculture SHOBHIT UNIVERSITY GANGOH H.o.D.

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School of Agriculture & Environmental Sciences

Date: 21.12.2023

Minutes of the Meeting of Board of Studies

22nd meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 21st Dec. 2023 at 10:00 am onwards. The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
3.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 22.1: Approval of the Minutes of the 21st BOS Meeting held on 27 June 2023 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 22.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 22.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 22.4: Approval of modification in the Syllabus of 4th & 6th Semester in B.Sc. Agriculture Hons. {Annexure-3}

- **BOS members approved Syllabus of 4th semester-course code: BAG-208**
- **BOS members approved Syllabus of 6th semester-course code: BAG-312.**

Item BOS 22.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2024.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover.

{Annexure-4}

Item BOS 22.5: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Dean Academies)

(Vice Chancellor)

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Annexure-1 (Item BOS-22.1)

School of Agriculture & Environmental Sciences

Date: 27.06.2023

Minutes of the Meeting of Board of Studies

21st meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 27th June 2023 at 10:00 am onwards. The following members were present in the meeting:

1.	Dr. Shivani Asstt. Professor & Head School of Business Studies & Entrepreneurship Shobhit University Gangoh	Chairperson
2.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
3.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 21.1: Approval of the Minutes of the 20th BOS Meeting held on 22 Dec. 2022 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

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Item BOS 21.2: Approval of modification in the Syllabus of 3rd & 5th semester B. Sc. Agriculture (Hons.) {Annexure-2}

- **BOS members approved Syllabus of 3rd semester-course code BAG-203 & BAG-217.**
- **BOS members approved Syllabus of 5th semester-course code: BAG-307.**

Item BOS 21.3: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B.Sc. Ag. Hons. For session **July to Dec. 2023** the same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-3}

Item BOS 21.4: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

School of Agriculture & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academics)

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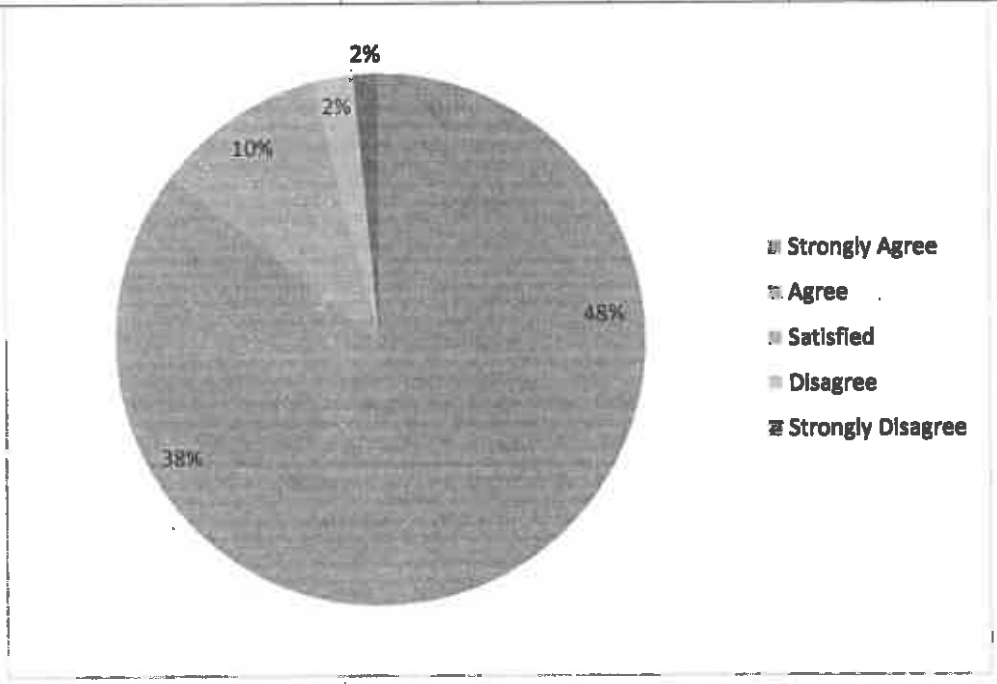
Annexure-2 (Item BOS 22.2 & 22.3)

Feedback from Different Stakeholders

Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

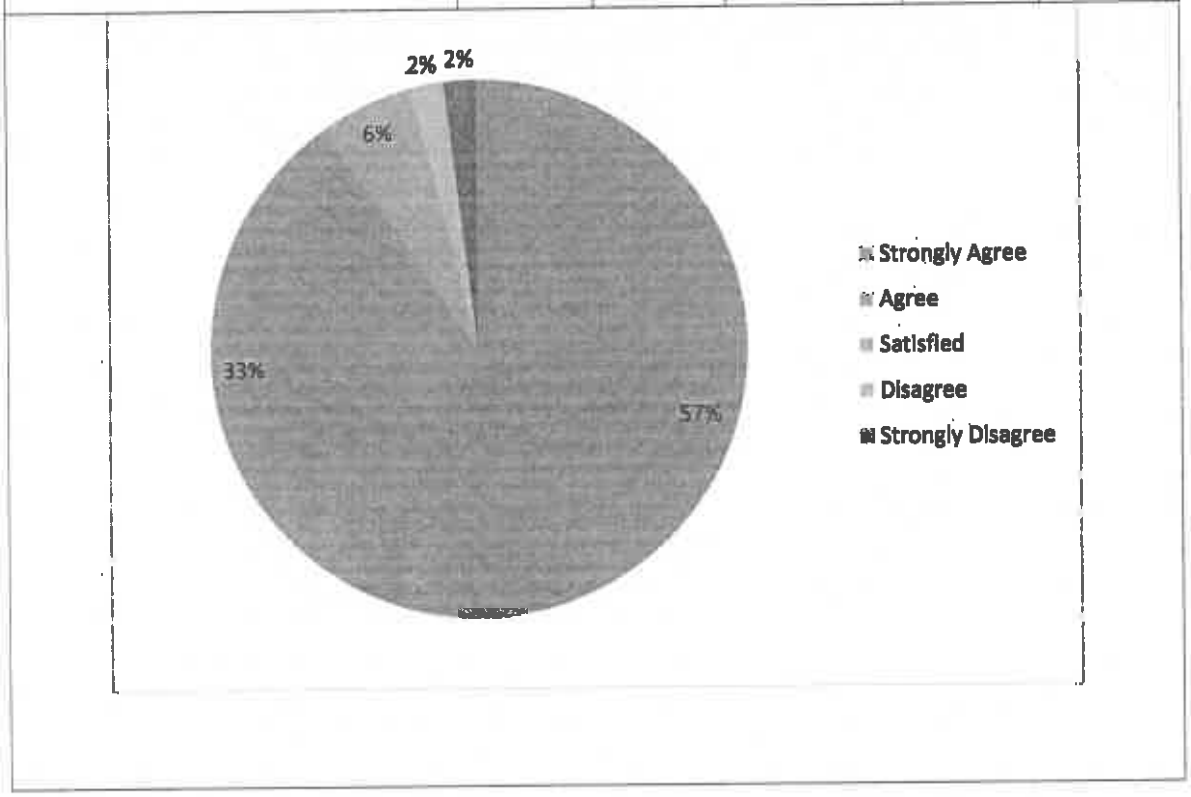
Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	48.09524	37.61905	10.47619	2.5	1.5



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Q.2. How do you rate the course outcomes and relevance to the course content?

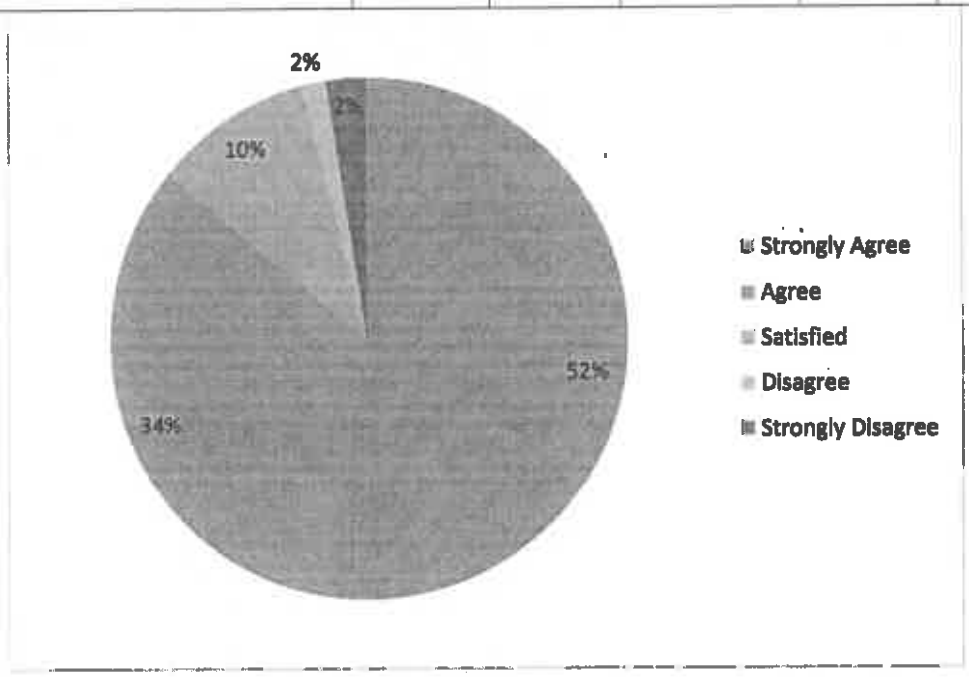
Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.61905	32.85714	5.714286	2	2



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Q.3. How do you rate the sequence of units in the courses?

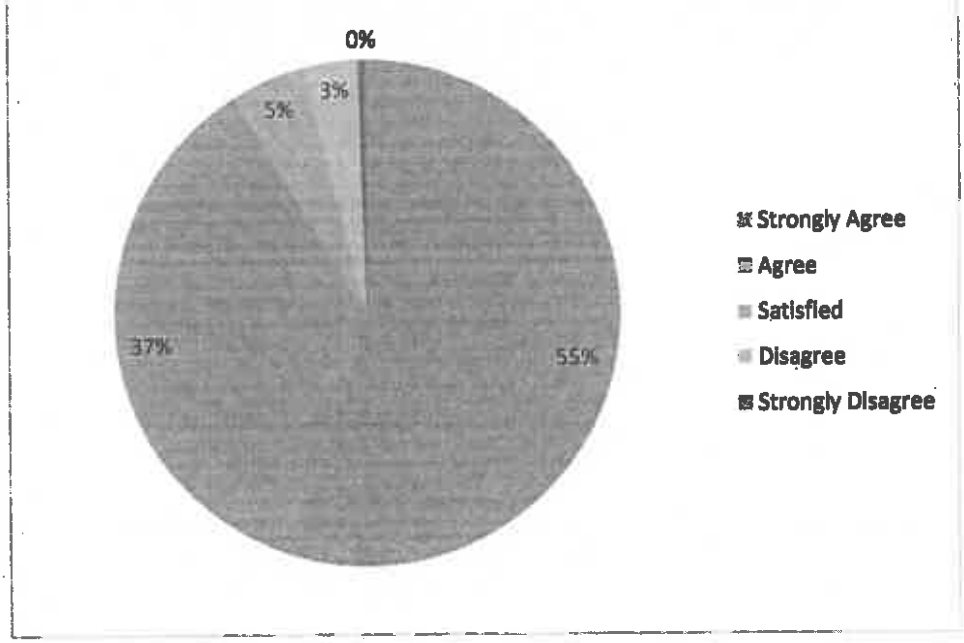
Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.38095	33.80952	10	1.5	2.5



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Q.4. How do you rate the credits allotted to individual courses?

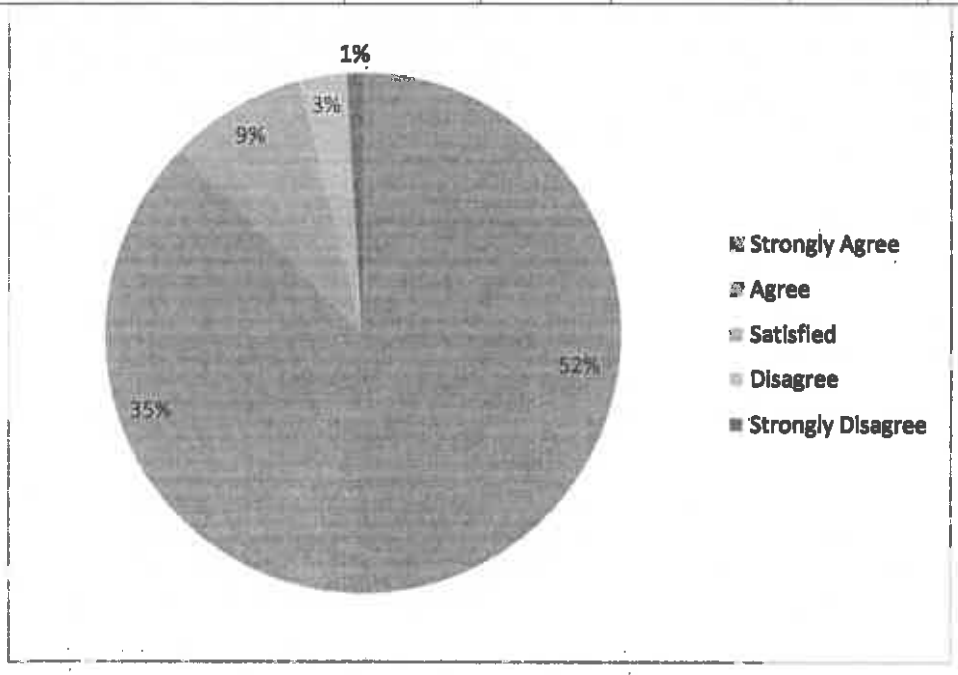
Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.7619	36.66667	4.761905	3.5	0.5



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Q.5. Does the curriculum focus on employability/career orientation?

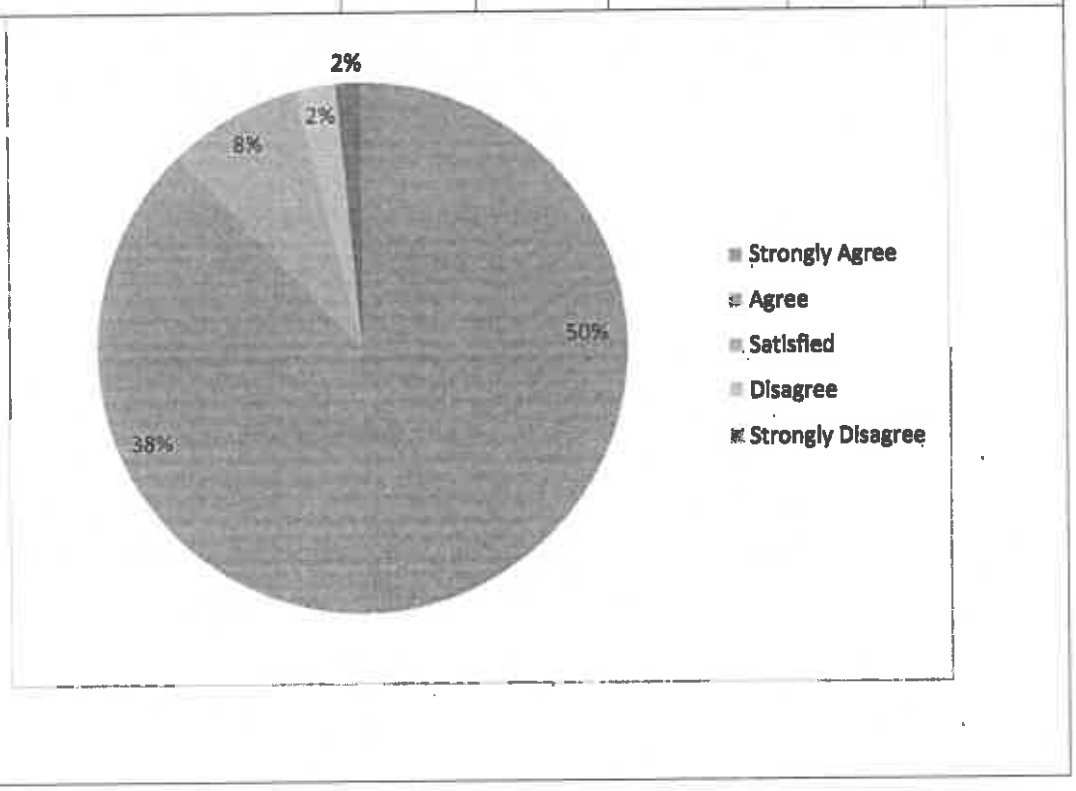
Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.38095	35.2381	8.571429	3	1



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Q.6. Does the curriculum focus on skill development/entrepreneurship?

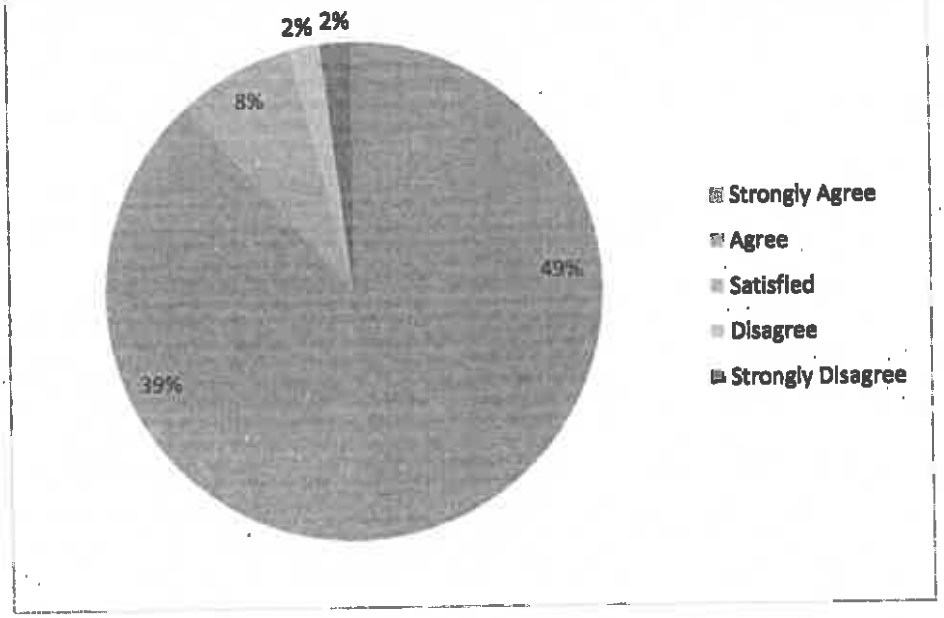
Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	38.09524	8.095238	2.5	1.5



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Q.7. Does the curriculum have satisfactory number of elective courses?

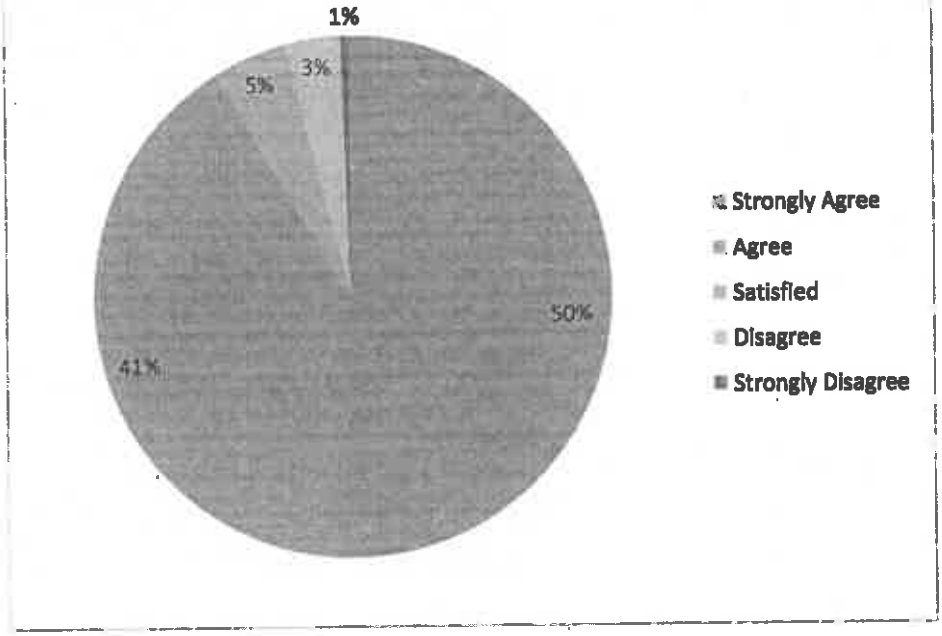
Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.04762	39.52381	7.619048	2	2



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Q.8. Does the curriculum focus on life skill or help in value addition?

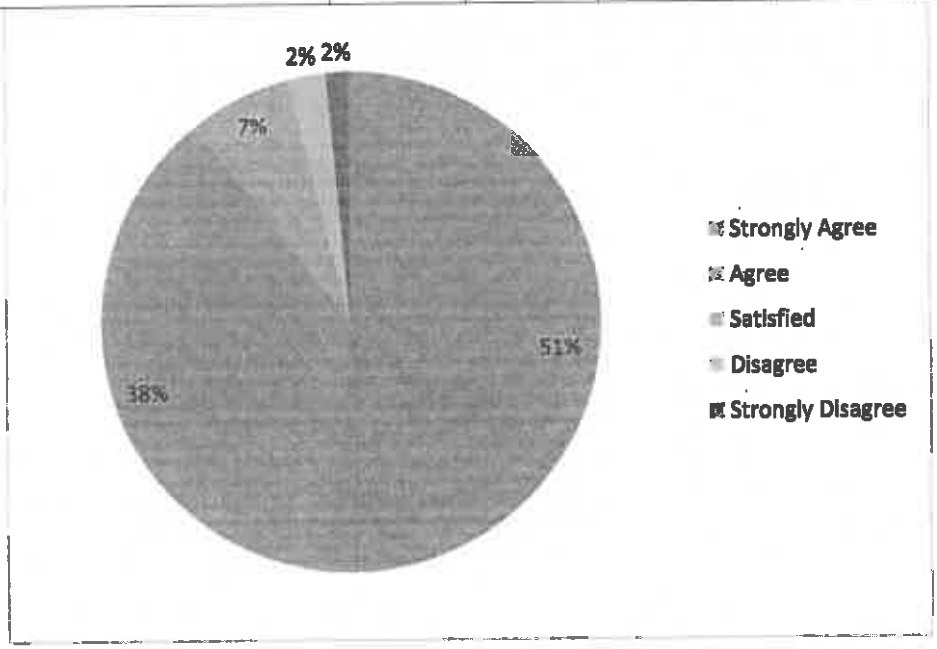
Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.47619	40.95238	4.761905	3.5	0.5



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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

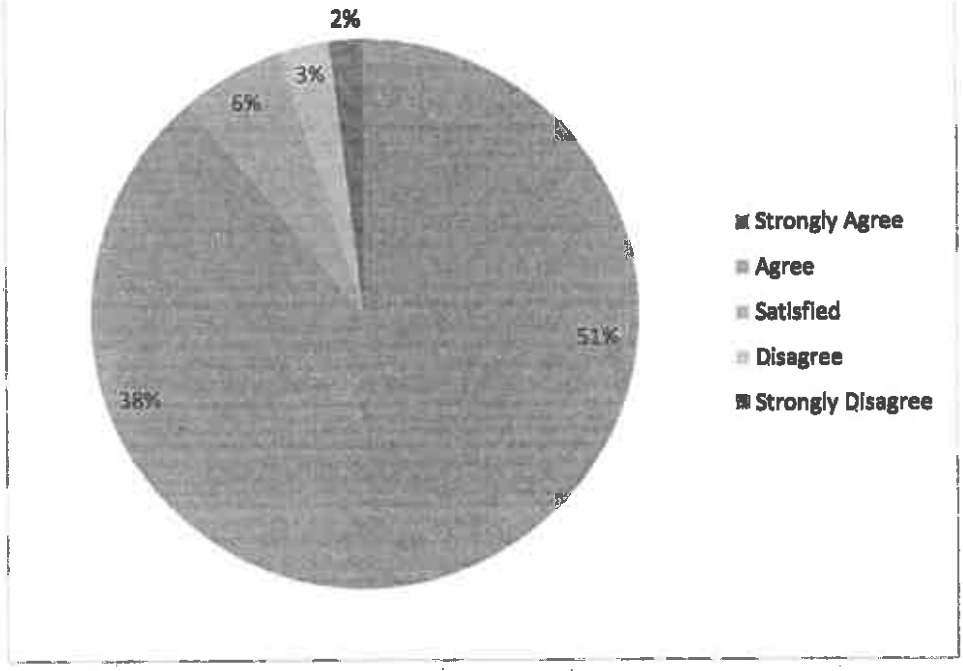
Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	51.42857	38.09524	6.666667	2.5	1.5



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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.95238	38.09524	6.190476	3	2



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School of Agriculture & Environment Sciences (230)						
Question	Details	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	101	79	22	5	3
	Percentage	48.0952381	37.61904762	10.47619048	2.5	1.5
How do you rate the course outcomes and relevance to the course content?	No of Students	121	69	12	4	4
	Percentage	57.61904762	32.85714286	5.714285714	2	2
How do you rate the sequence of units in the courses?	No of Students	110	71	21	3	5
	Percentage	52.38095238	33.80952381	10	1.5	2.5
How do you rate the credits allotted to individual courses?	No of Students	115	77	10	7	1
	Percentage	54.76190476	36.66666667	4.761904762	3.5	0.5
Does the curriculum focus on employability/career orientation?	No of Students	110	74	18	6	2
	Percentage	52.38095238	35.23809524	8.571428571	3	1
Does the curriculum focus on skill development/entrepreneurship?	No of Students	105	80	17	5	3
	Percentage	50	38.0952381	8.095238095	2.5	1.5
Does the curriculum have satisfactory number of elective courses?	No of Students	103	83	16	4	4
	Percentage	49.04761905	39.52380952	7.619047619	2	2
Does the curriculum focus on life skill or help in value addition?	No of Students	106	86	10	7	1
	Percentage	50.47619048	40.95238095	4.761904762	3.5	0.5
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	108	80	14	5	3
	Percentage	51.42857143	38.0952381	6.666666667	2.5	1.5
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	107	80	13	6	4
	Percentage	50.95238095	38.0952381	6.19047619	3	2

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Analysis of Feedback:

The student feedback for the School of Agriculture & Environment Sciences presents a strong endorsement of the curriculum, particularly in terms of content relevance, subject depth, and practical alignment. A considerable proportion of students (48.10%, 101 students) strongly agreed that the curriculum offers depth and clarity of concepts, with another 37.62% agreeing. Even more significantly, 57.62% of students strongly agreed and 32.86% agreed that course outcomes are highly relevant to the course content, reflecting a robust alignment between what is taught and the intended learning outcomes.

The sequence of units in the curriculum was positively received, with 52.38% strongly agreeing and 33.81% agreeing, indicating a well-organized structure. Similarly, the credit allocation was appreciated by 54.76% of students who strongly agreed and 36.67% who agreed, suggesting that the workload is considered fair and well-distributed.

In terms of employability and career orientation, 52.38% of students strongly agreed and 35.24% agreed that the curriculum is effectively aligned with career development goals. Skill development and entrepreneurship also received favorable ratings, with 50% strongly agreeing and 38.10% agreeing, which reflects strong practical and vocational integration. The number of elective courses was considered satisfactory by 49.05% of students who strongly agreed and 39.52% who agreed, showing general contentment with the variety offered.

Life skill development and value addition were acknowledged by 50.48% of students strongly agreeing and 40.95% agreeing, indicating a positive perception of the curriculum's holistic benefits. Practical integration, such as linking theory to lab work and real-life exposure, was affirmed by 51.43% strongly agreeing and 38.10% agreeing. Additionally, 50.95% strongly agreed and 38.10% agreed that the curriculum delivers multidisciplinary knowledge.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Strengthen conceptual clarity further through interactive and applied learning methods.	Integrated more case studies, fieldwork, and digital simulations into core subjects.	Improved student engagement and deeper understanding of complex agricultural concepts.
2	Enhance career orientation and job preparedness through professional exposure.	Organized industry-specific guest lectures, internships, and job-readiness workshops.	Increased student confidence and better industry alignment; more students exploring internships.
3	Expand entrepreneurship and skill-based components in the curriculum.	Added modules on agripreneurship, farm management, and value-chain development.	Greater interest in self-employment opportunities and participation in innovation projects.
4	Continue strengthening real-life integration with labs and field activities.	Increased lab-to-field sessions and collaborations with local farms and environmental agencies.	Students reported better understanding of theory through hands-on experience.

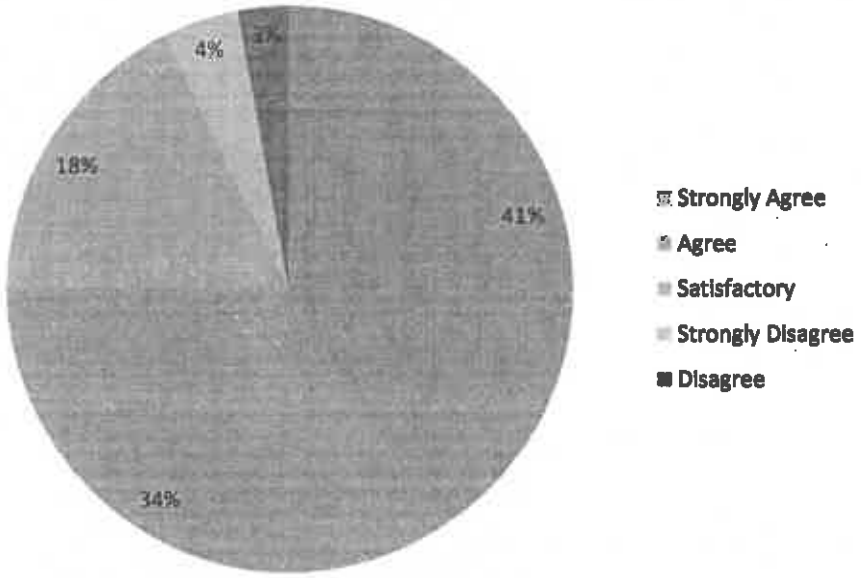
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Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The courses based on state of art trends and recent developments?

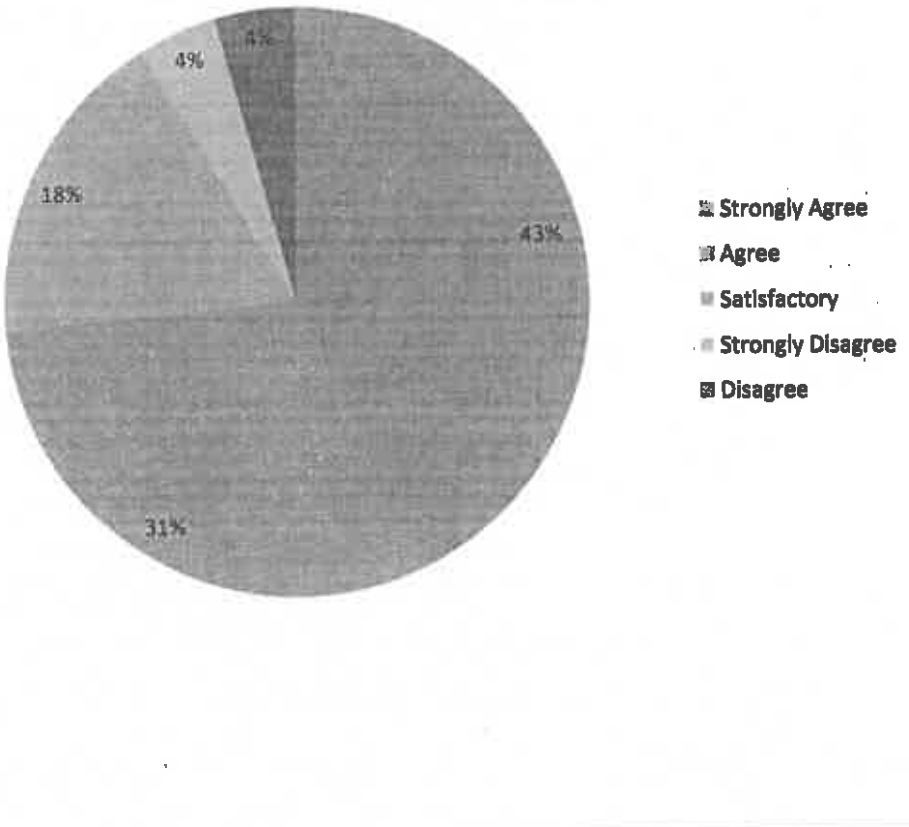
The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	33.82	17.65	4.41	2.94



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Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

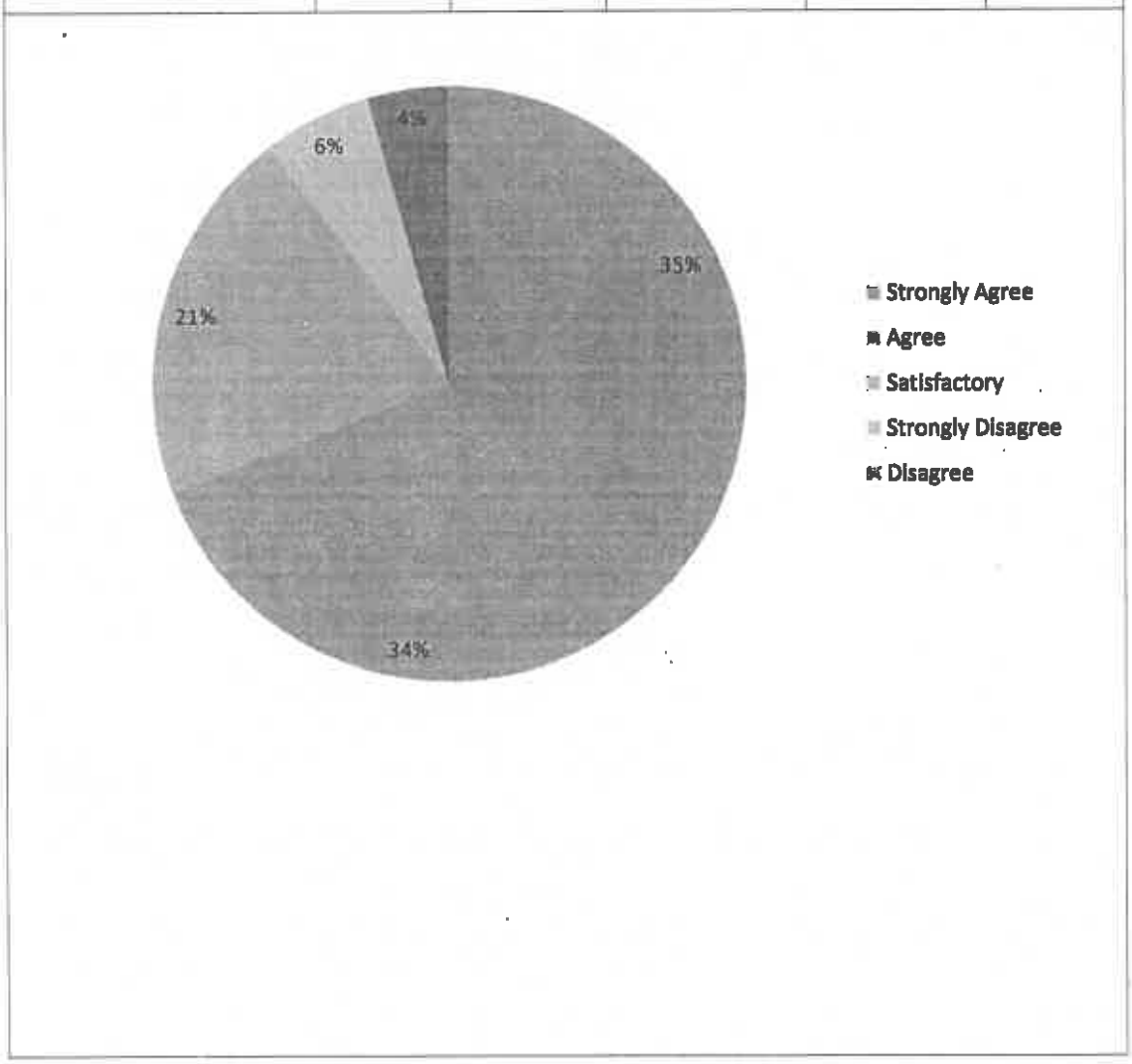
The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	42.65	30.88	17.65	4.41	4.41



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Q.3 The courses found to be productive in competing professionally at national/international level?

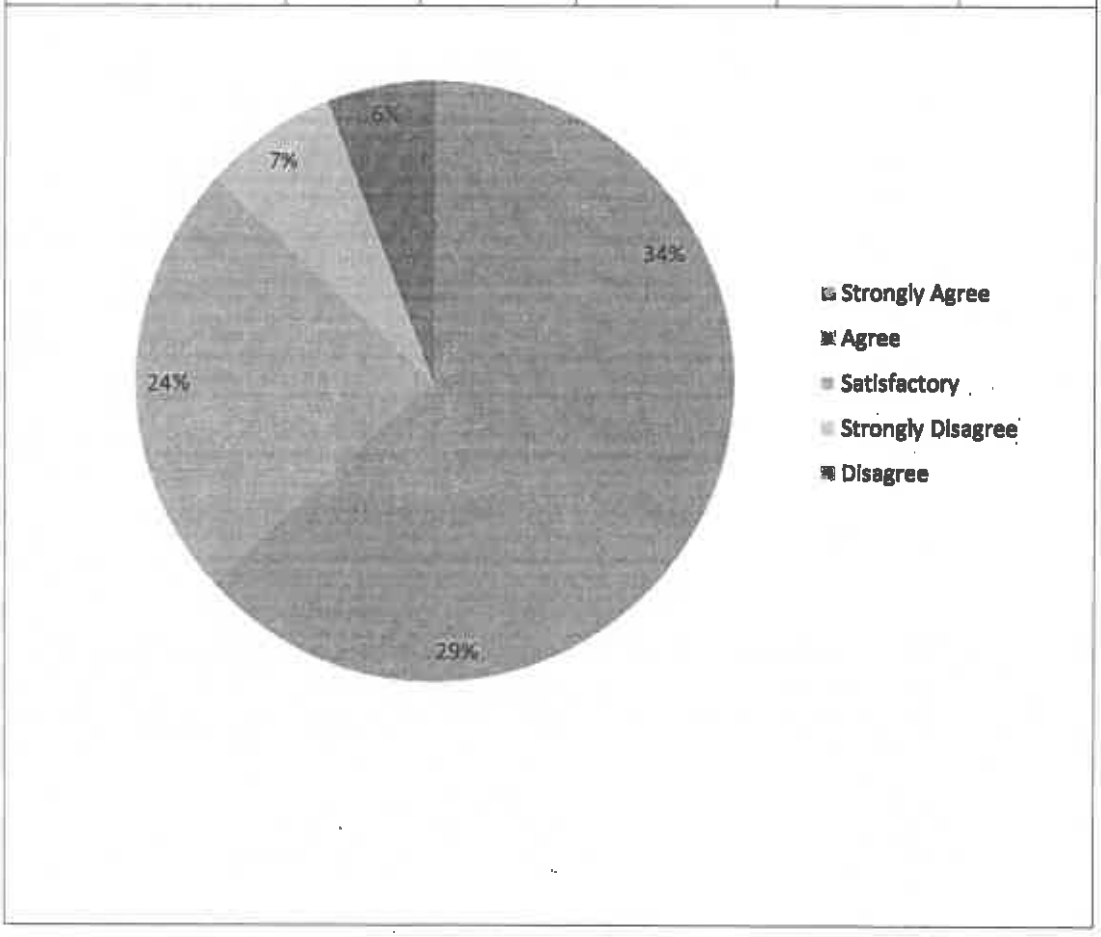
The courses found to be productive in competing professionally at national/International level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	33.82	20.59	5.88	4.41



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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

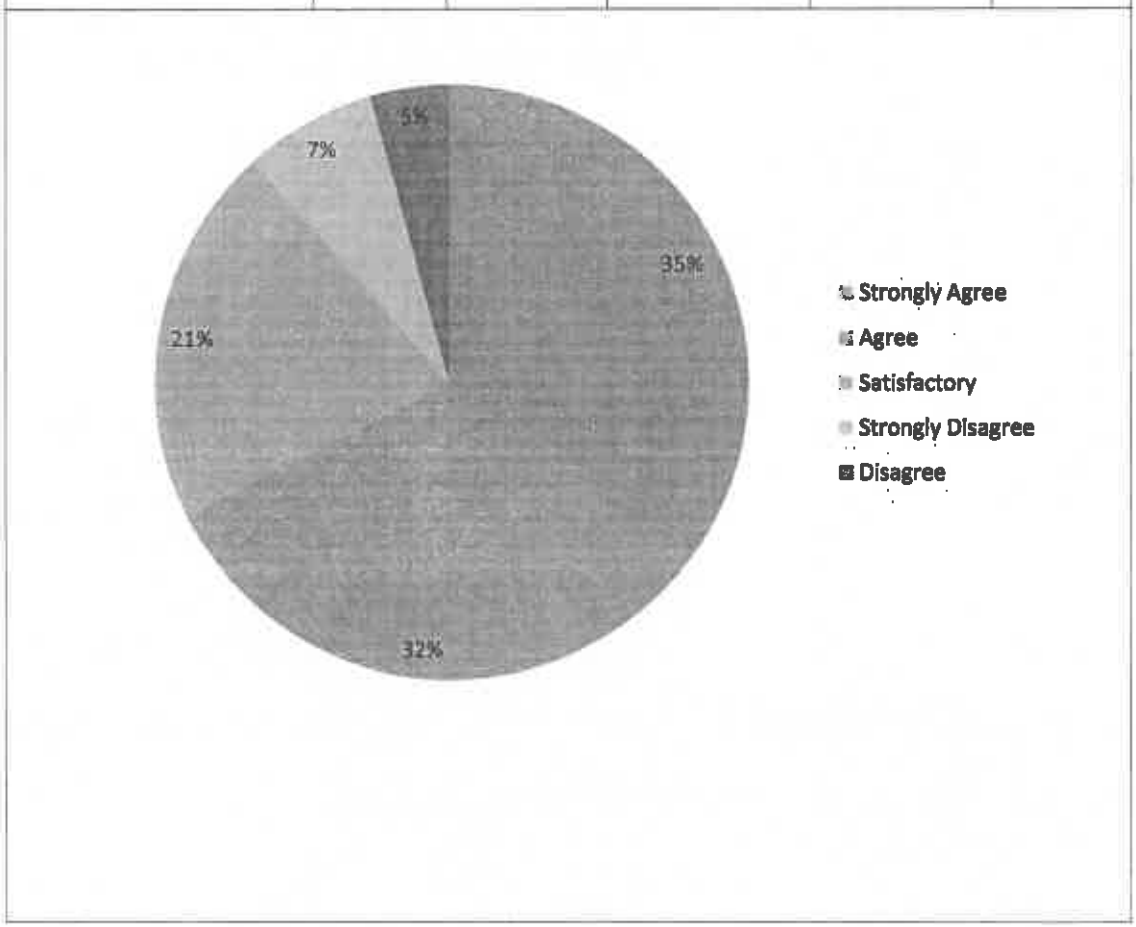
The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	33.82	29.41	23.53	7.35	5.88



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Q.5 Theprogramme helped to understand the impact of domain knowledge in social and global context?

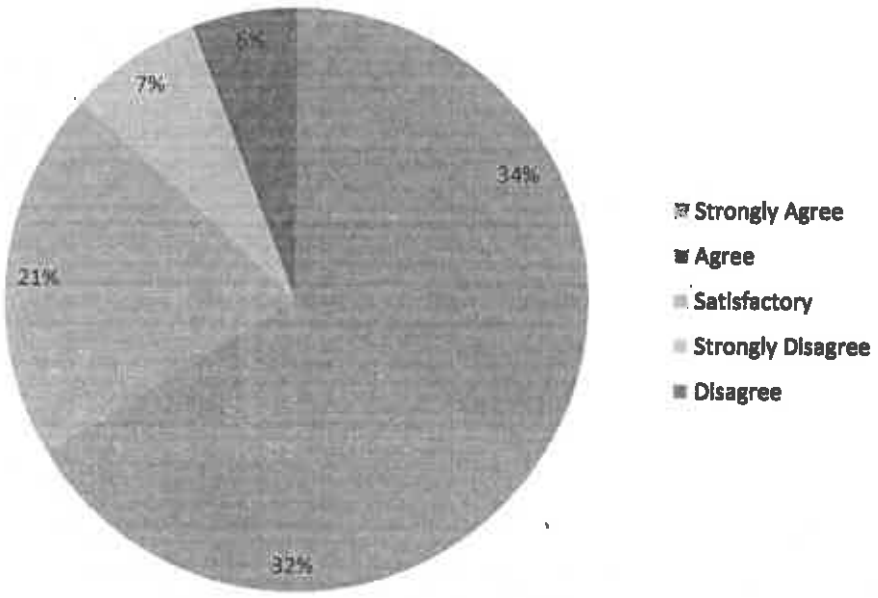
The programme helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	32.35	20.59	7.35	4.41



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Q.6 The programme provided awareness on recent advancements and innovations?

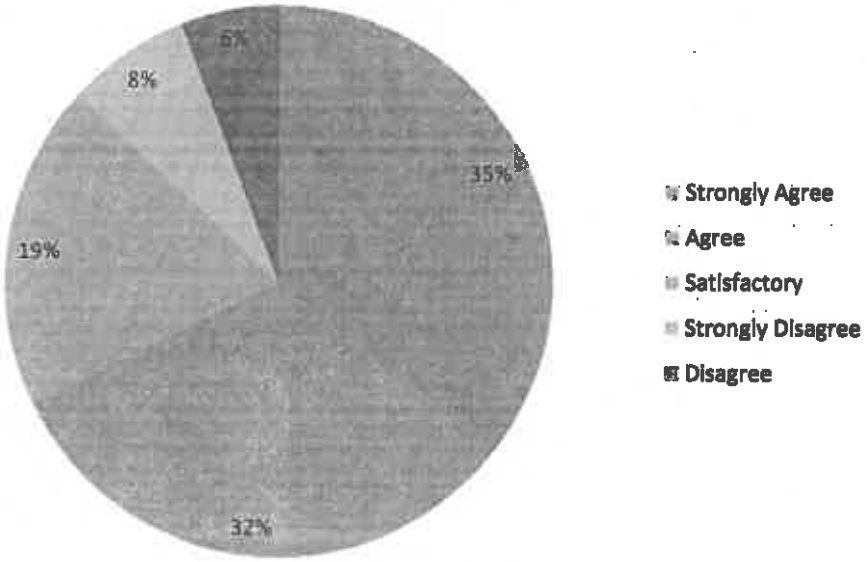
The programmeprovided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	33.82	32.35	20.59	7.35	5.88



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Q.7 Theprogramme improved critical thinking ability and problem-solving aptitude.

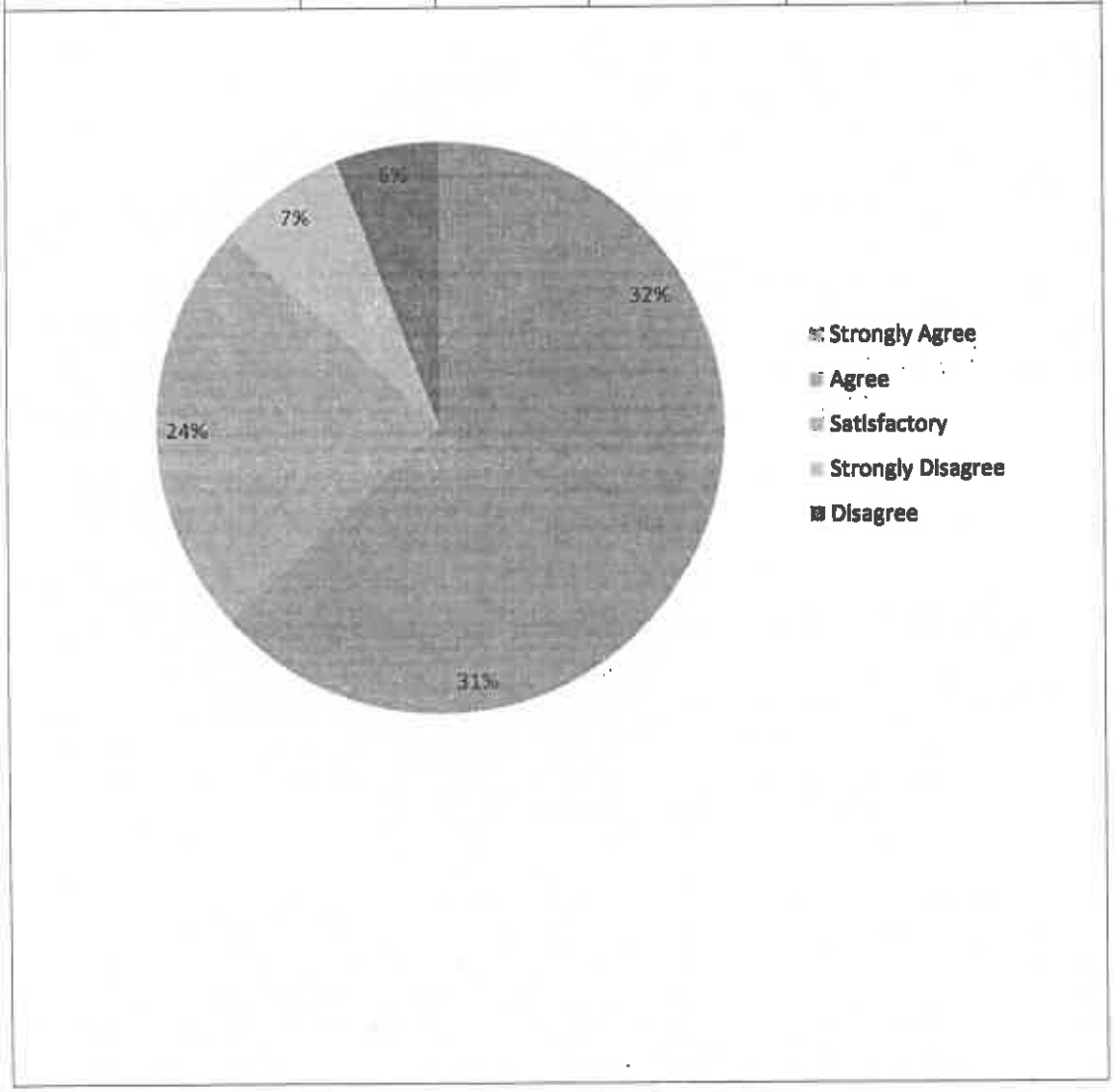
The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	32.35	19.12	7.35	5.88



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Q.8 Theprogramme helped to take independent decisions and perform managerial &administerial functions diligently?

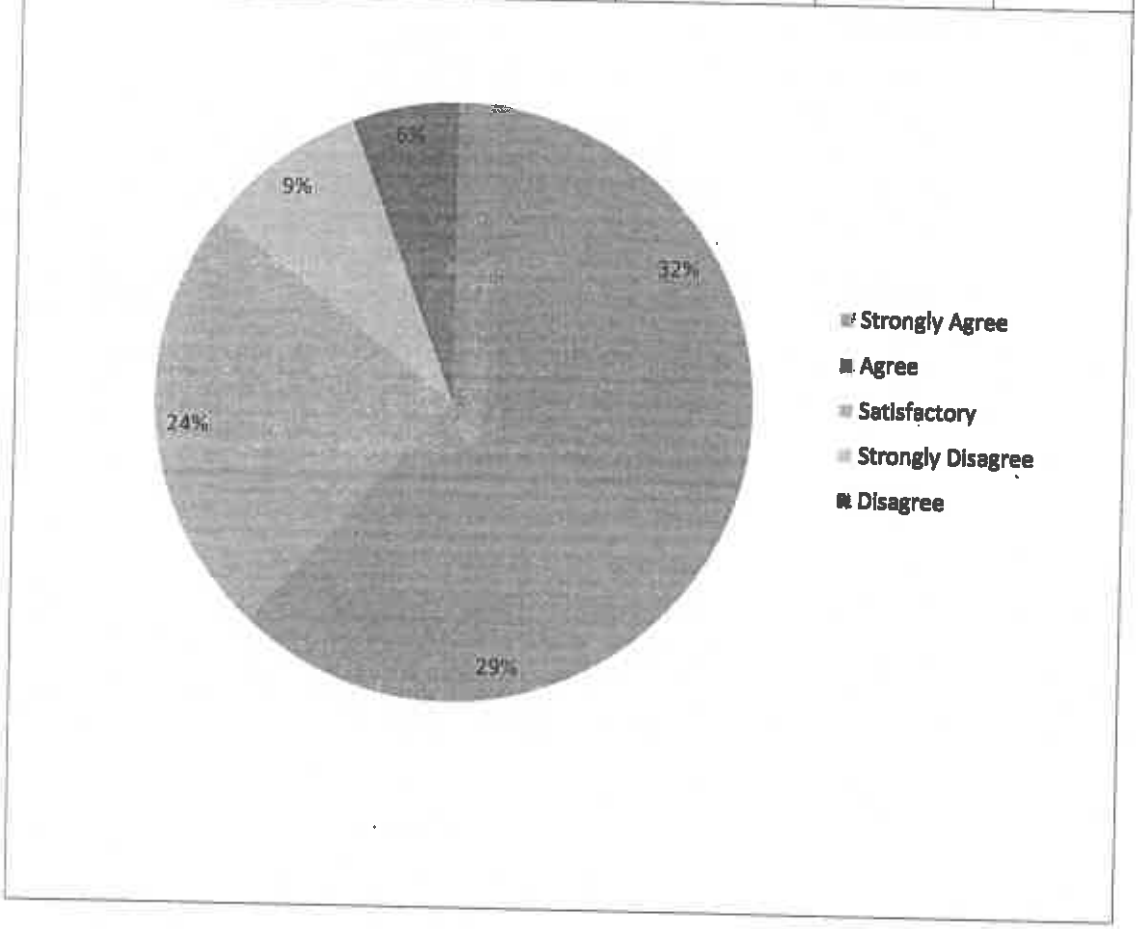
The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	32.35	30.88	23.53	7.35	5.88



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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	32.35	29.41	23.53	8.82	5.88



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	School of Agriculture and Environmental Science (68)						
Sr.No.	**Questions**		**Strongly Agree**	**Agree**	**Satisfactory**	**Strongly Disagree**	**Disagree**
1	The courses based on state of art trends and recent developments?	No of Alumni	28	23	12	3	2
		Percentage	41.18	33.82	17.65	4.41	2.94
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	29	21	12	3	3
		Percentage	42.65	30.88	17.65	4.41	4.41
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	24	23	14	4	3
		Percentage	35.29	33.82	20.59	5.88	4.41
4	The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?	No of Alumni	23	20	16	5	4
		Percentage	33.82	29.41	23.53	7.35	5.88
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	24	22	14	5	3
		Percentage	35.29	32.35	20.59	7.35	4.41
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	23	22	14	5	4
		Percentage	33.82	32.35	20.59	7.35	5.88
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	24	22	13	5	4
		Percentage	35.29	32.35	19.12	7.35	5.88
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	22	21	16	5	4
		Percentage	32.35	30.88	23.53	7.35	5.88
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	22	20	16	6	4
		Percentage	32.35	29.41	23.53	8.82	5.88

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Analysis of the Feedback

The alumni feedback on the curriculum reveals a mixed perception of its effectiveness across various dimensions. Notably, the curriculum excels in areas related to personal and professional growth, with high scores for developing domain-specific skills and knowledge (92.65%), inculcating ethical and professional values (91.18%), and enhancing awareness of recent advancements and innovations (89.71%). Additionally, it supports managerial and administrative competency (86.76%), indicating strong alignment with soft skills and leadership development. However, the feedback highlights areas of concern where the programme appears less effective: critical thinking and problem-solving (59.00%), understanding the impact of domain knowledge in a broader context (61.00%), state-of-the-art relevance (63.00%), and readiness for global professional competition (62.00%). These suggest that while the curriculum is strong in foundational and ethical aspects, it may need significant updates in fostering innovation, global competitiveness, and higher-order cognitive skills to meet contemporary demands.

Action Taken Report

(School of Agriculture & Environmental Science)

Sr. No.	Suggestions	Action taken	Outcome
1	Enhance the alignment with state-of-the-art trends and advancements in agriculture.	Revised curriculum to incorporate emerging topics such as precision farming, climate-smart agriculture, sustainable agriculture technologies, and agro informatics. Introduced hands-on training in advanced agricultural tools and technologies.	Increased student engagement with modern agricultural practices; better preparation for innovation-driven roles in the agricultural sector.
2	Strengthen global competitiveness and industry readiness.	Established international exchange programs with agricultural research centers and global agribusiness companies. Organized global workshops and webinars with leading industry experts.	Students gained international exposure; internship and job opportunities with multinational agricultural companies increased by 25%.
3	Foster critical thinking, problem-solving, and higher-order cognitive skills.	Introduced problem-based learning (PBL) modules and case studies based on real-world agricultural challenges. Organized interdepartmental workshops on analytical thinking and decision-making in agricultural contexts.	Student performance in critical thinking assessments improved by 20%; increased participation in national agricultural policy debates and decision-making simulations.
4	Improve understanding of the broader impact of agriculture and	Integrated courses on sustainable development, environmental policy, food security, and the	Enhanced student awareness of the social, economic, and

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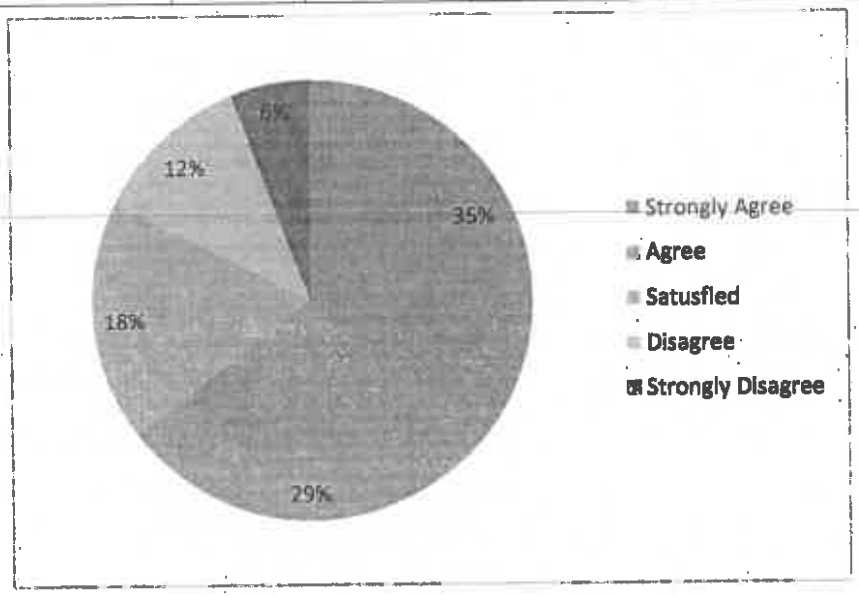
	environmental science on society..	socio-economic impact of agriculture into the curriculum. Initiated community outreach programs focused on sustainable farming and environmental education.	environmental dimensions of agriculture; increased participation in sustainability-focused projects and community initiatives..

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Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 curriculum assists the students to acquire necessary entry level skills in industrial sector.

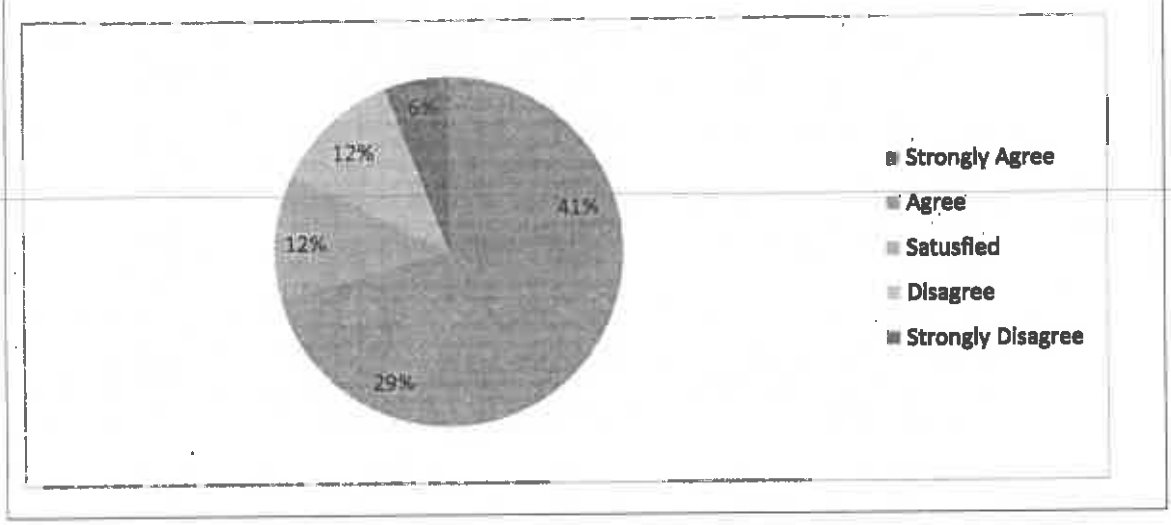
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.3	29.4	17.6	11.8	5.9



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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

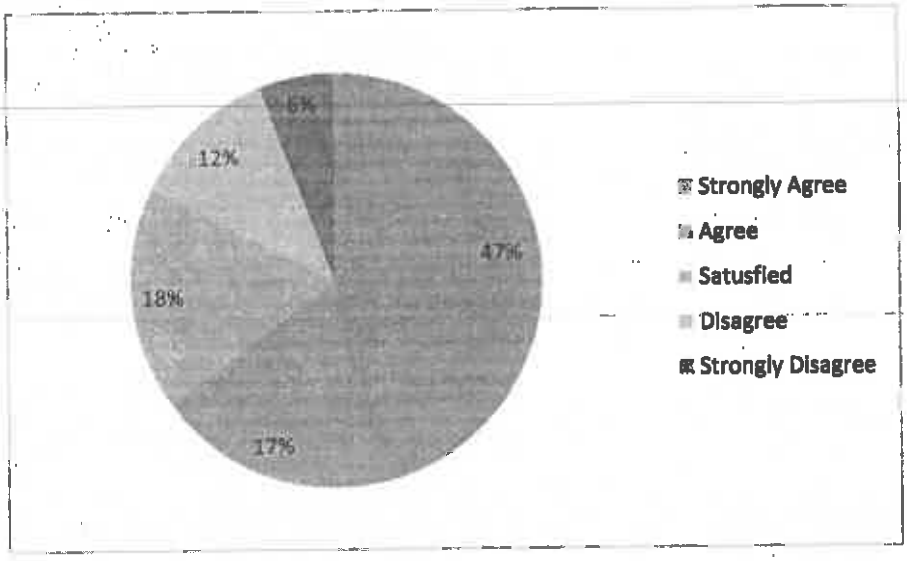
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	29.41	11.76	11.76	5.88



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

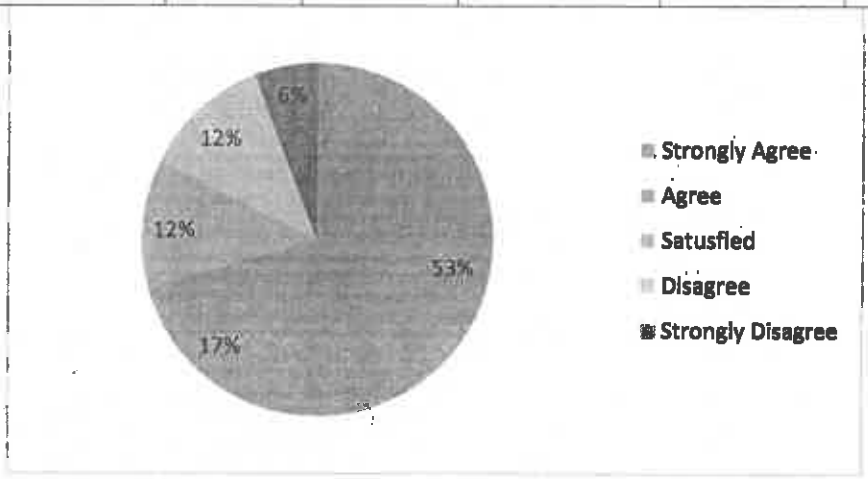
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	17.65	11.76	5.88



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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

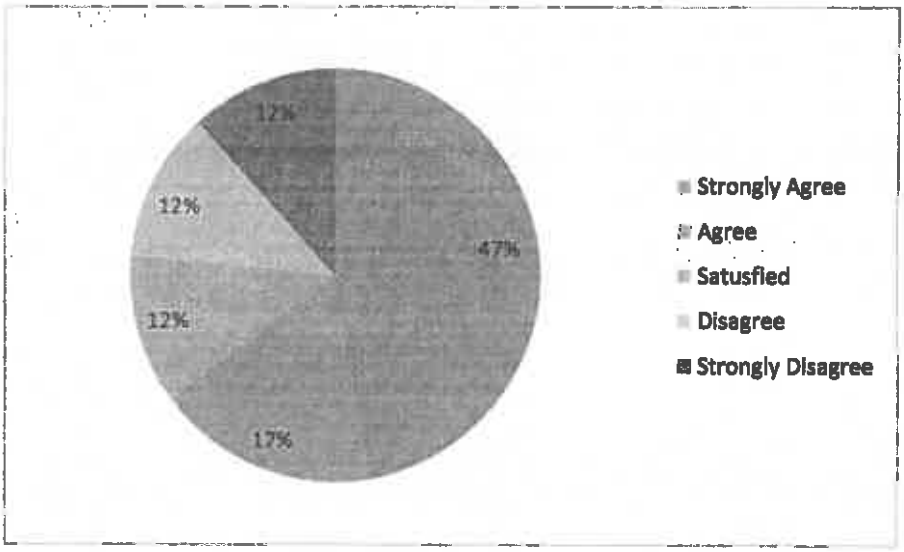
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	17.65	11.76	11.76	5.88



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

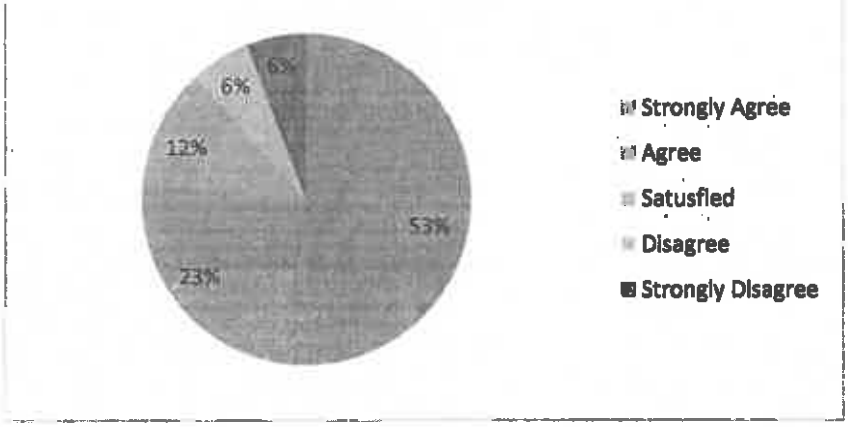
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	11.76	11.76	11.76



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

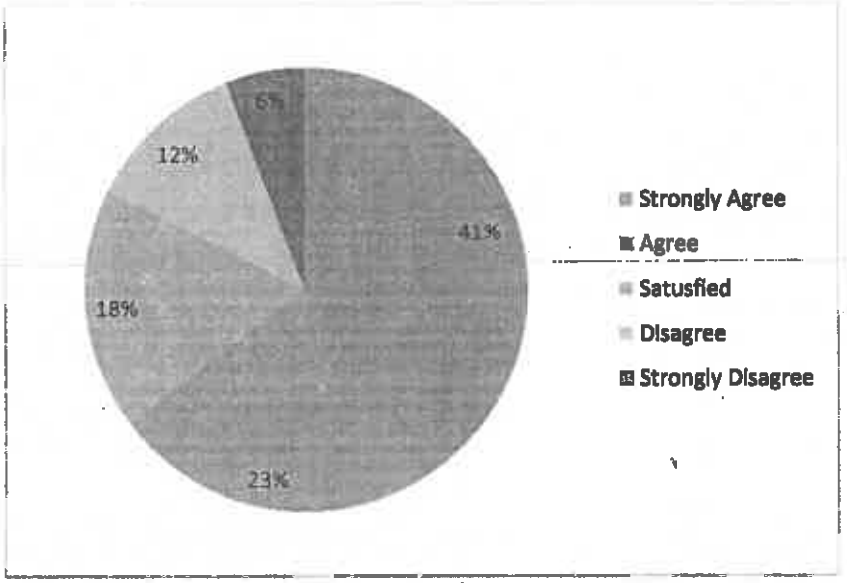
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	23.53	11.76	5.88	5.88



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics.

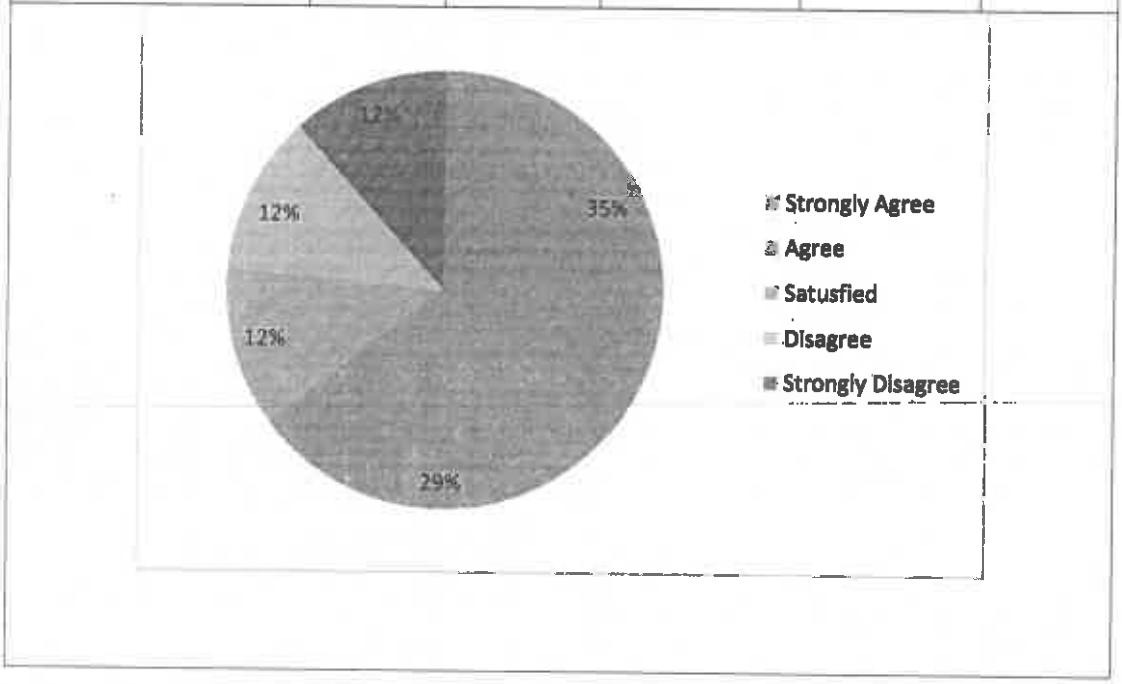
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	23.53	17.65	11.76	5.88



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

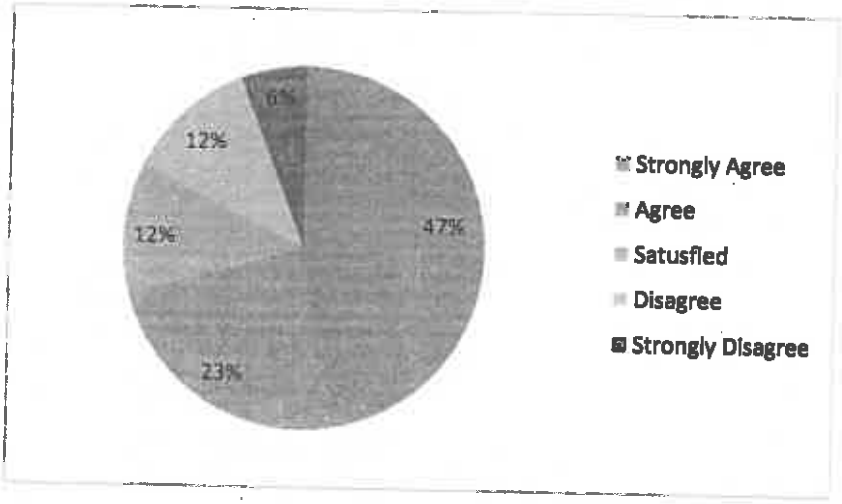
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	29.41	11.76	11.76	11.76



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for student's holistic development	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	23.53	11.76	11.76	5.88



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School of Agriculture and Environmental Science(17)						
Total no. of Employer : 17		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Academicians	6	5	3	2	1
	Percentage	35.29	29.41	17.65	11.76	5.88
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Academicians	7	5	2	2	1
	Percentage	41.18	29.41	11.76	11.76	5.88
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Academicians	8	3	3	2	1
	Percentage	47.06	17.65	17.65	11.76	5.88
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	No. of Academicians	9	3	2	2	1
	Percentage	52.94	17.65	11.76	11.76	5.88
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	8	3	2	2	2
	Percentage	47.06	17.65	11.76	11.76	11.76
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	9	4	2	1	1
	Percentage	52.94	23.53	11.76	5.88	5.88
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	7	4	3	2	1
	Percentage	41.18	23.53	17.65	11.76	5.88
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	6	5	2	2	2
	Percentage	35.29	29.41	11.76	11.76	11.76
The courses have adequate balance between theory and	No. of Academicians	8	4	2	2	1

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application for student's holistic development.	Percentage	47.06	23.53	11.76	11.76	5.88

Analysis of Feedback:

Employers' feedback on the curriculum indicates a generally high level of satisfaction, with most aspects rated at **82.35%**, reflecting a strong alignment with industry needs. The curriculum is praised for equipping students with necessary entry-level skills, promoting life-long learning, supporting multidisciplinary education, and fostering both individual and team-oriented adaptability. Additionally, it is viewed positively for its focus on personality development and its balanced approach to theory and application. Notably, the highest score of **88.24%** was given for the curriculum's effectiveness in enhancing employability and encouraging higher education, suggesting strong academic and professional preparation. However, slightly lower scores of **76.47%** were noted in areas related to entrepreneurial skills and program organization, indicating room for improvement in supporting innovation and ensuring optimal credit allocation. Overall, the curriculum is well-received by employers, with a solid structure and industry relevance, complemented by targeted opportunities for refinement.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance industry partnerships for practical exposure in agriculture and environmental sciences.	Strengthened collaborations with local farms, environmental organizations, and governmental bodies for internships and field-based projects.	Students gained direct industry experience, improving their practical skills and understanding of real-world agricultural and environmental issues.
2	Focus on integrating advanced technology into the curriculum, particularly in sustainable farming and environmental management.	Introduced courses on precision agriculture, drone technology for crop monitoring, and GIS (Geographic Information Systems) for environmental management.	Students developed proficiency in cutting-edge technologies, making them more competitive in modern agricultural and environmental careers.
3	Foster a deeper understanding of environmental policies and regulations to prepare students for roles in environmental protection.	Added modules on environmental laws, sustainability practices, and international environmental protocols.	Students were better equipped to work in policy-making, conservation, and regulatory roles within environmental organizations.
4	Promote interdisciplinary learning by encouraging cross-collaboration with other departments such as ecology, biotechnology, and resource management.	Organized joint projects and workshops with the School of Biotechnology and other departments to work on integrated environmental and agricultural solutions.	Students experienced a more holistic learning approach, gaining insights into how agriculture and environmental sciences intersect with other fields.

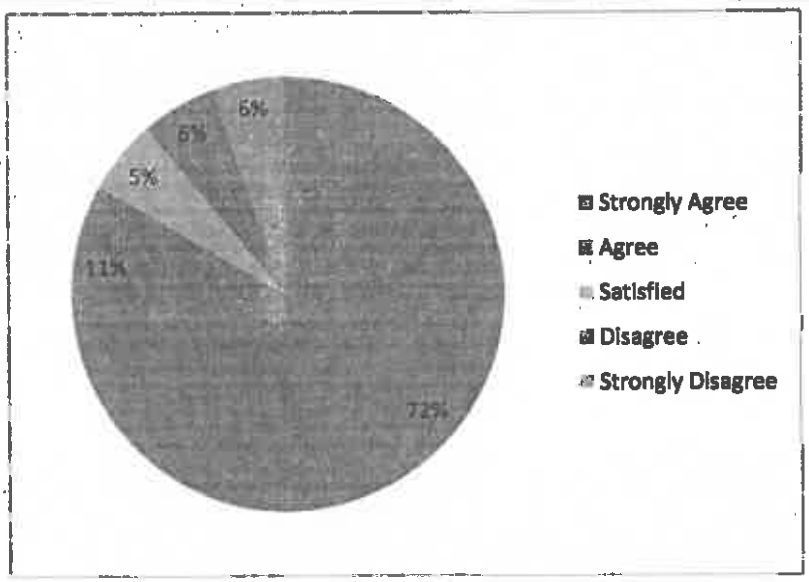
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Analysis of Peer Academicians' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

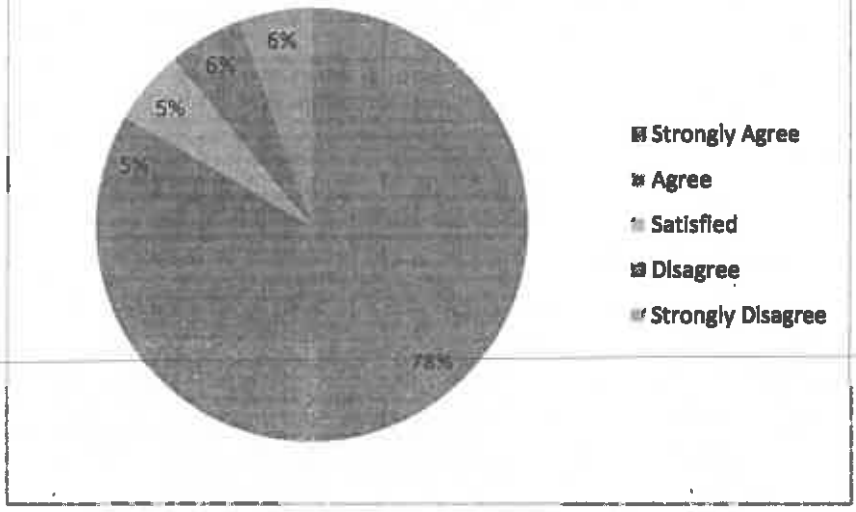
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	11.11	5.55	5.55	5.55



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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

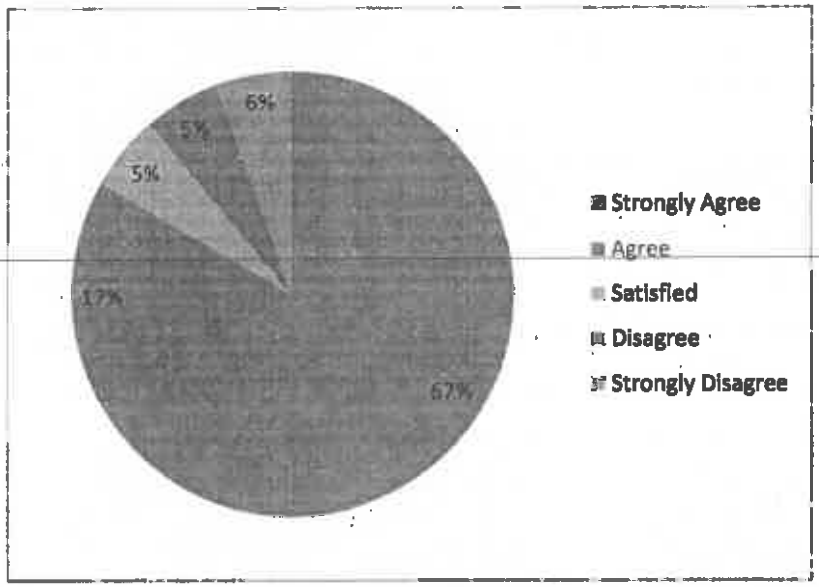
The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.77	5.55	5.55	5.55	5.55



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

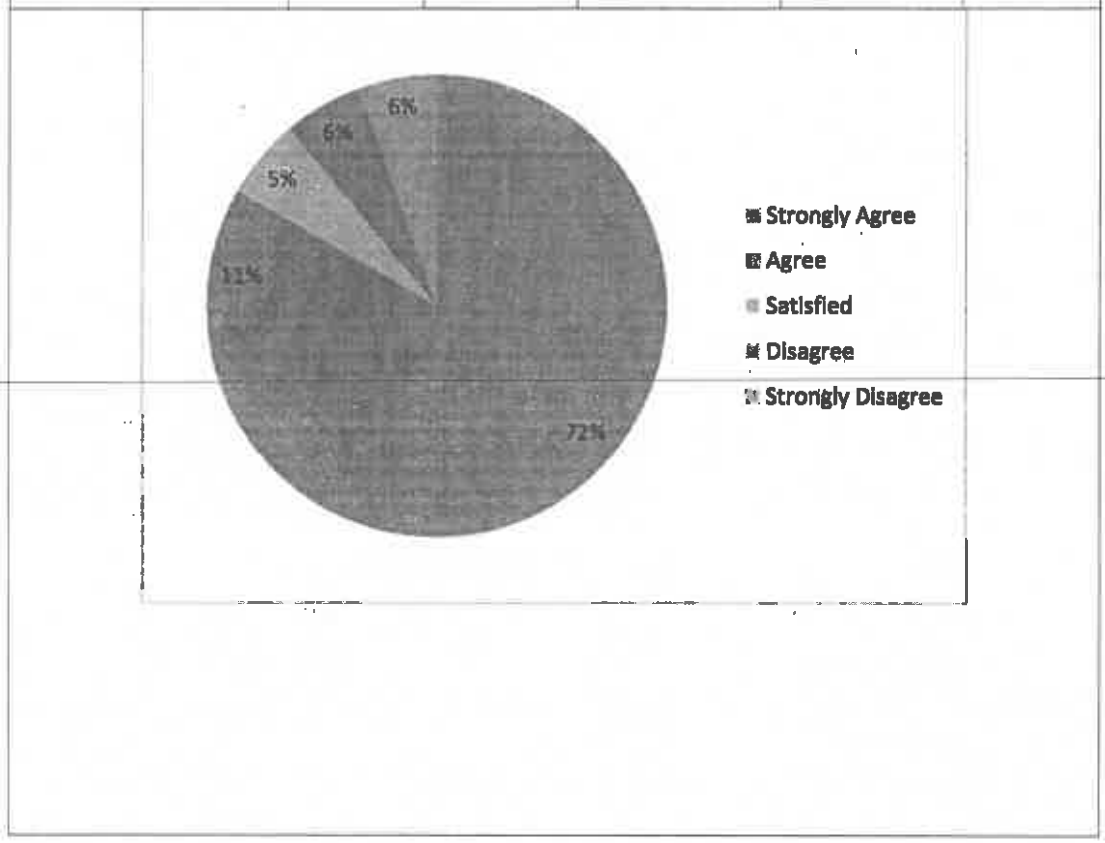
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55



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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

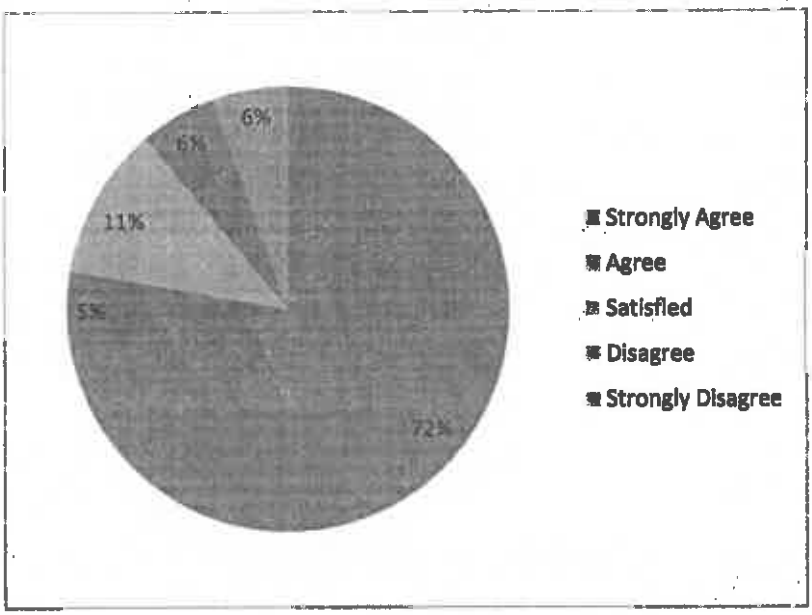
Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	11.11	5.55	5.55	5.55



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

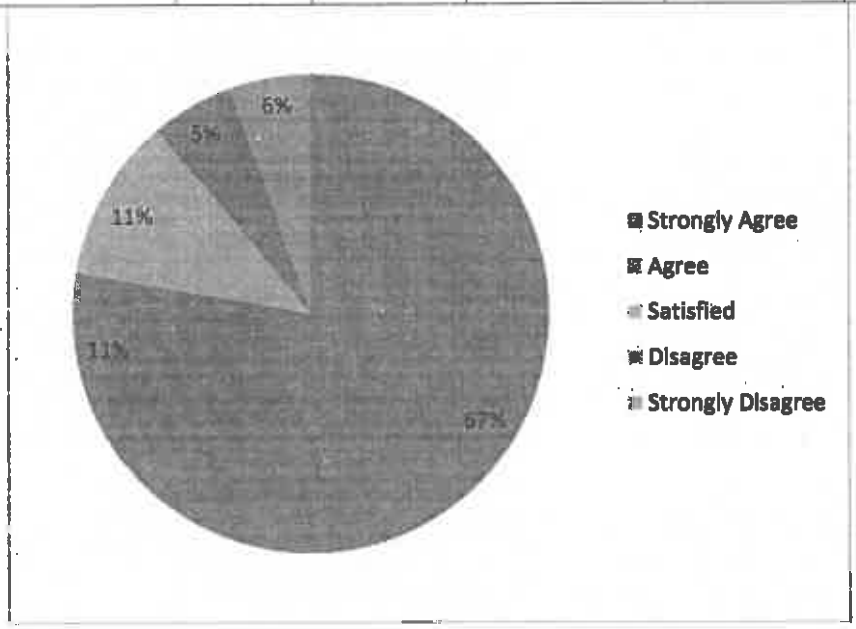
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

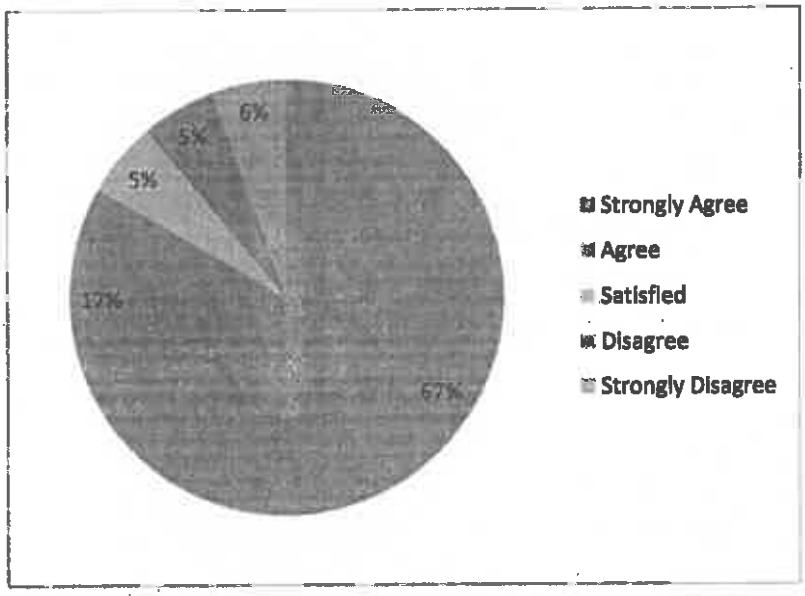
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	11.11	11.11	5.55	5.55



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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

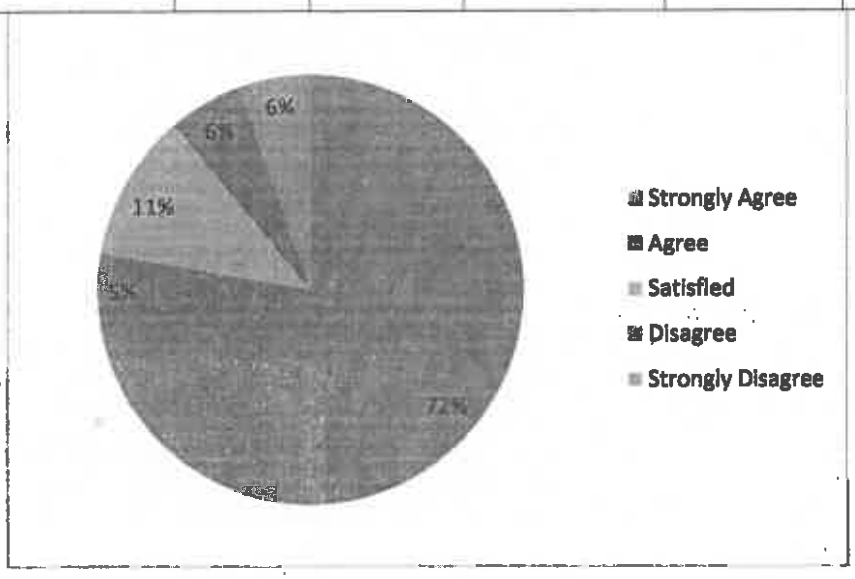
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

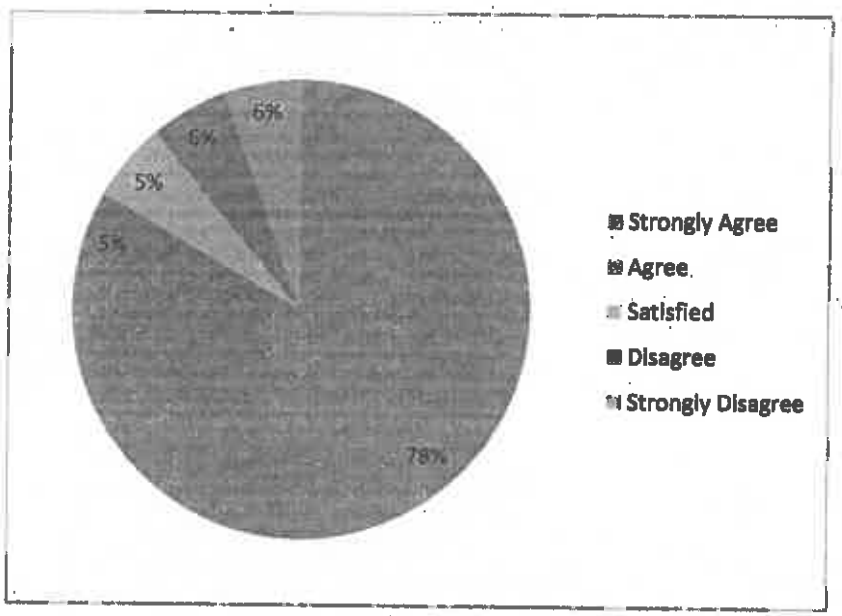
The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55



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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.77	5.55	5.55	5.55	5.55



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School of Agriculture and Environmental Science(18)

Total no. of Peer Academicians: 18		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Academicians	12.00	2.00	2.00	1.00	1.00
	Percentage	66.66	11.11	11.11	5.55	5.55
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55

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Analysis of Feedback:

The peer feedback on the curriculum reveals a generally positive assessment, with the majority of peer academicians agreeing that the program is well-aligned with its objectives. A total of 18 academicians participated in the evaluation. A strong 72.22% of respondents strongly agreed that the syllabus of the courses is appropriate in relation to the competencies expected from the program. Similarly, 77.77% felt the sequence and overall organization of the courses were well-structured. However, there is some room for improvement in the areas of multidisciplinary knowledge and elective courses, with only 66.66% strongly agreeing that the curriculum offers adequate scope for these. Self-learning is well-supported, with 72.22% of peers strongly agreeing on the inclusion of such opportunities. Additionally, 72.22% of respondents strongly agreed that the curriculum supports the development of entrepreneurial skills and industry readiness, though there is room for enhancement in this area, as 11.11% were neutral or dissatisfied. On personality development, 66.66% strongly agreed that the curriculum includes a focus on human values and professional ethics. The overall organization and balance of the curriculum, including credit allocation, were also viewed positively, with 72.22% in strong agreement. Finally, the curriculum's balance between theory and application for holistic student development was highly regarded by 77.77% of respondents. This feedback highlights a solid foundation in the curriculum's structure, but also indicates areas for further refinement, particularly in expanding multidisciplinary opportunities and enhancing industry-readiness elements.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr.No	Suggestions	Action Taken	Outcome
1	The curriculum should offer more scope for multidisciplinary knowledge and electives.	Increased the number of electives and incorporated more cross-disciplinary courses into the curriculum.	Greater flexibility for students to explore interdisciplinary learning, enhancing their academic experience.
2	Further improvement in the entrepreneurial skills and industry readiness focus.	Introduced additional workshops, seminars, and collaborations with industry leaders to enhance the entrepreneurial and industry-relevant skill set.	Improved student exposure to real-world industry practices, fostering entrepreneurial thinking and career readiness.
3	Emphasize personality development through more focused courses on human values and professional ethics.	Added additional modules and practical sessions on ethics, human values, and leadership skills within the core curriculum.	Positive feedback from students regarding the importance of these modules in shaping professional conduct and values.
4	Strengthen the integration of self-learning opportunities within the curriculum.	Revised course materials and included more open-ended assignments, research tasks, and independent projects to foster self-learning.	Increased student engagement in self-directed learning, allowing for deeper exploration of subject matter.

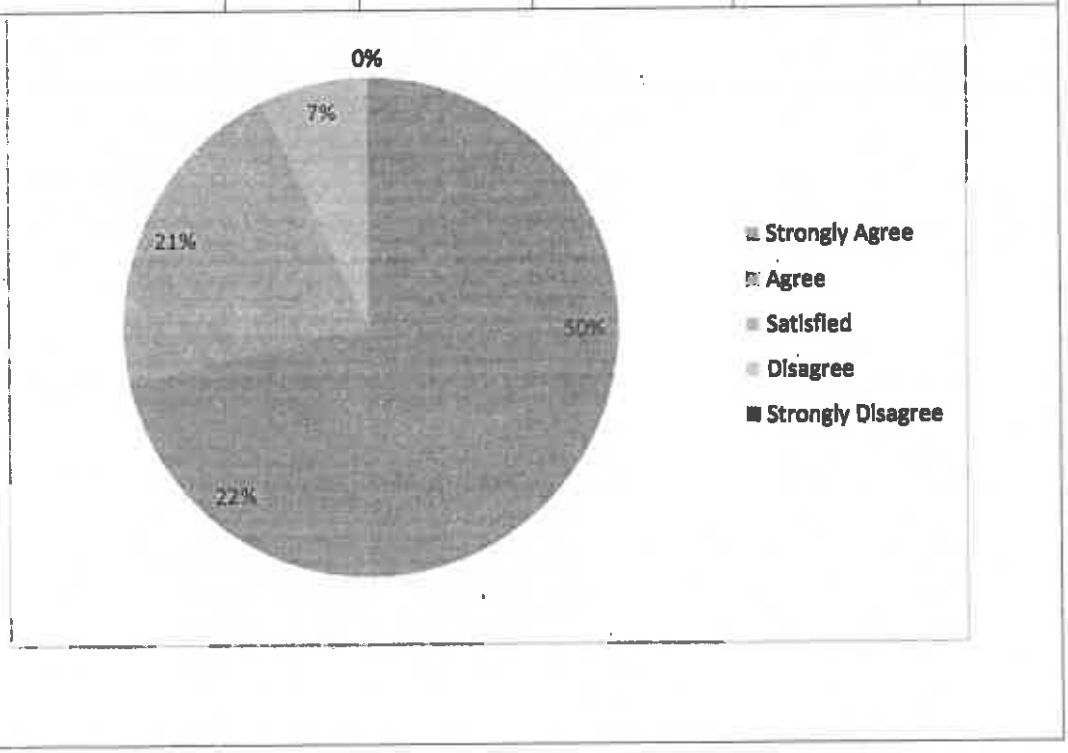
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Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

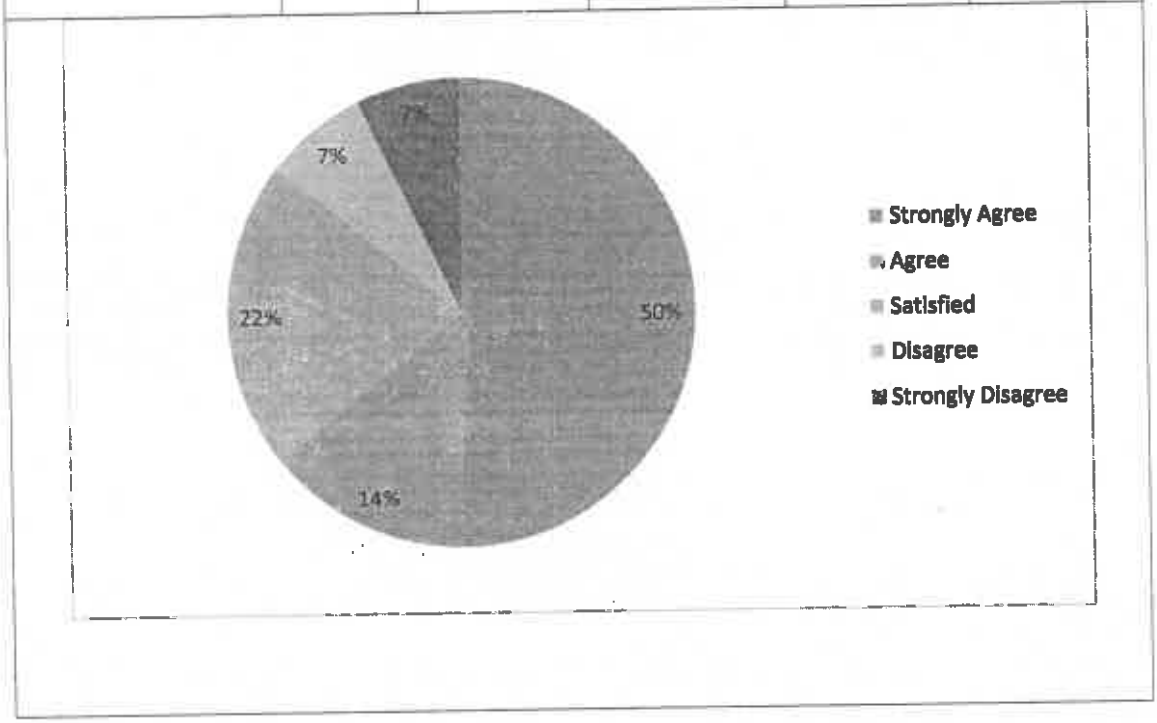
The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	7.142857143	0



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Q.2 The courses have adequate balance between theory and application for student's holistic development.

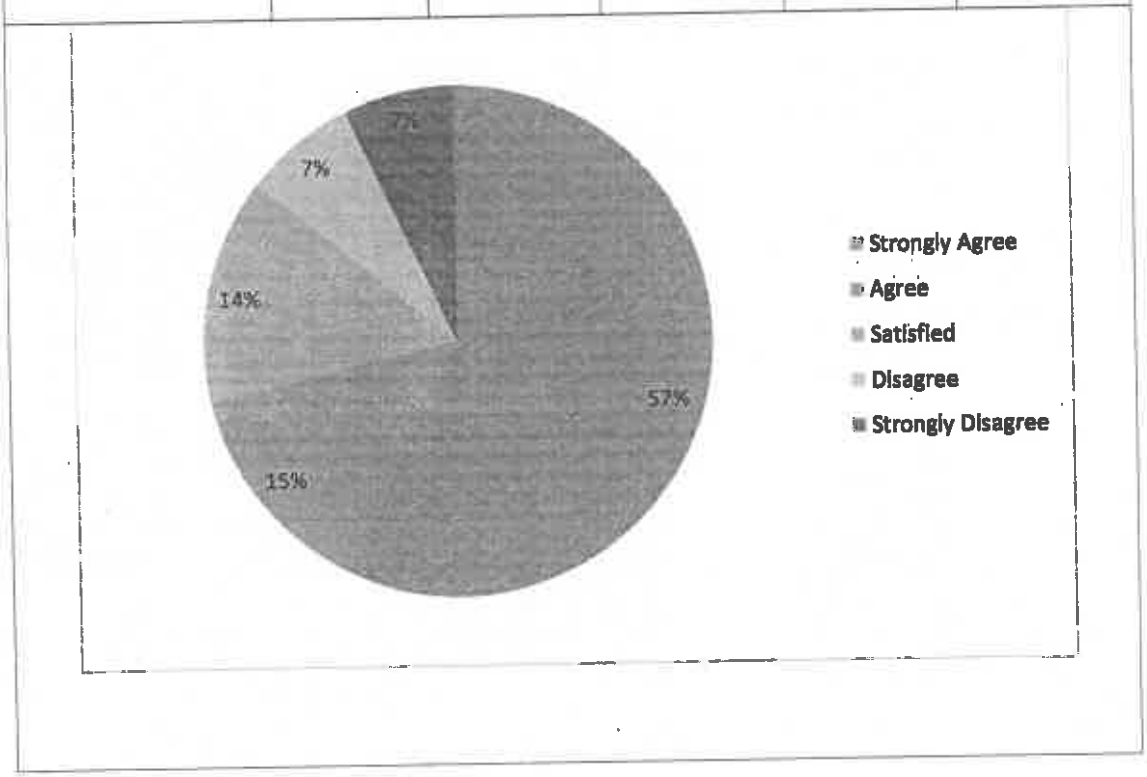
The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	14.28571429	21.42857143	7.142857143	7.142857143



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

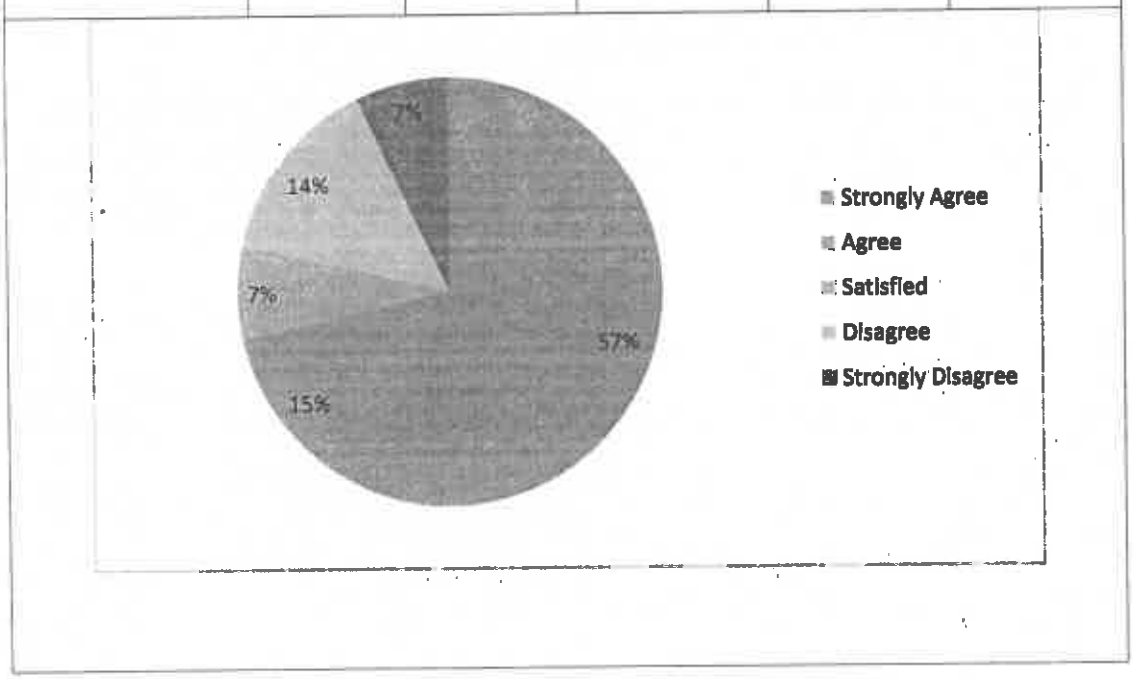
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.1428571	14.28571429	14.28571429	7.142857143	7.142857143



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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

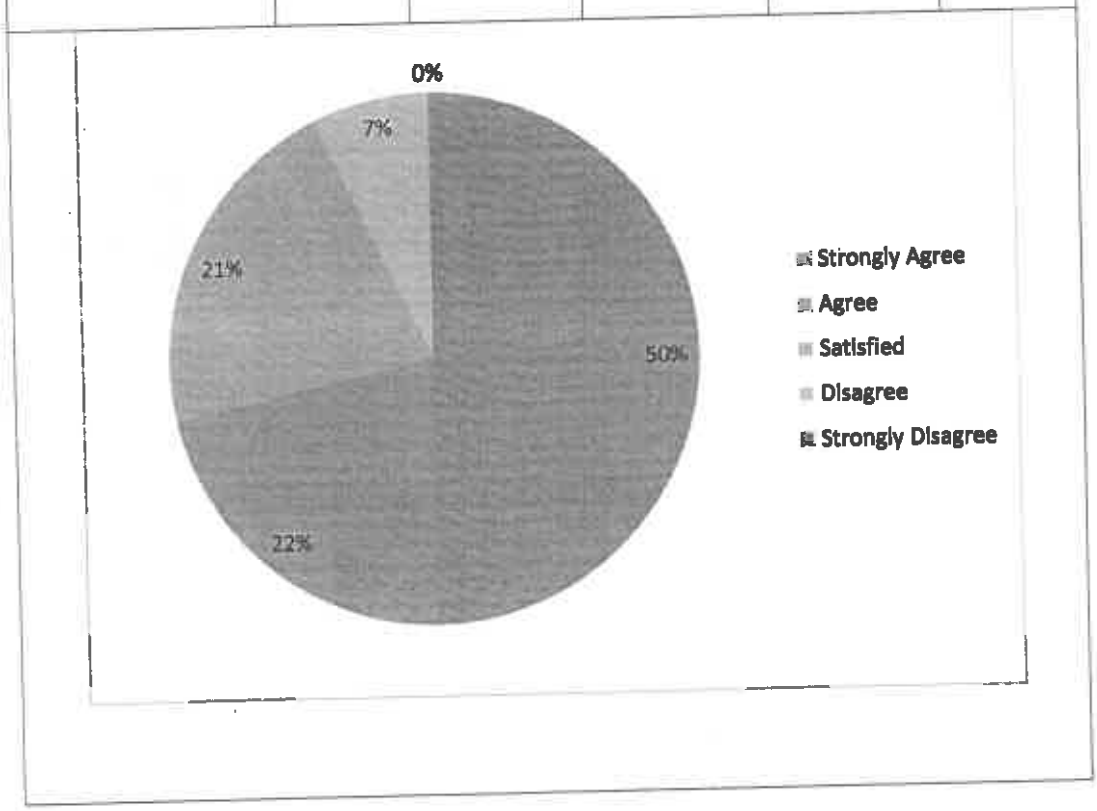
The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.1428571	14.28571429	7.142857143	14.28571429	7.142857143



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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

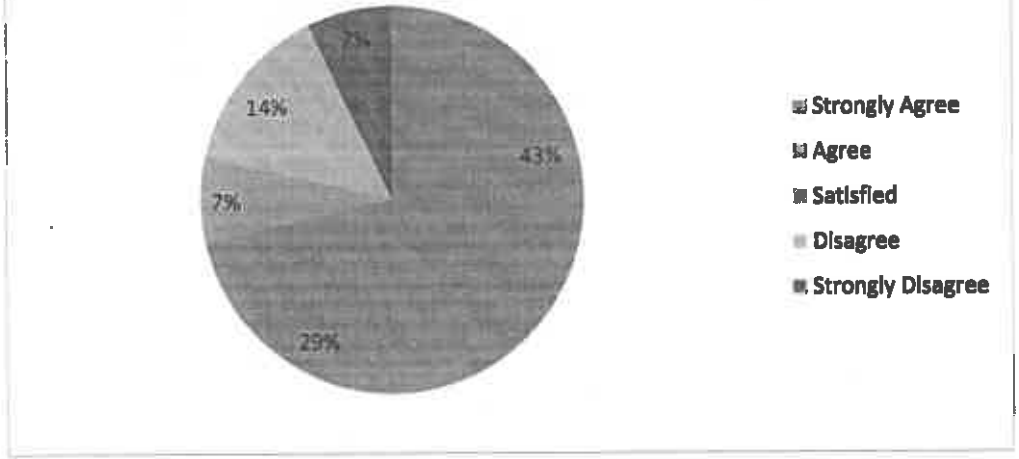
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	7.142857143	0



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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

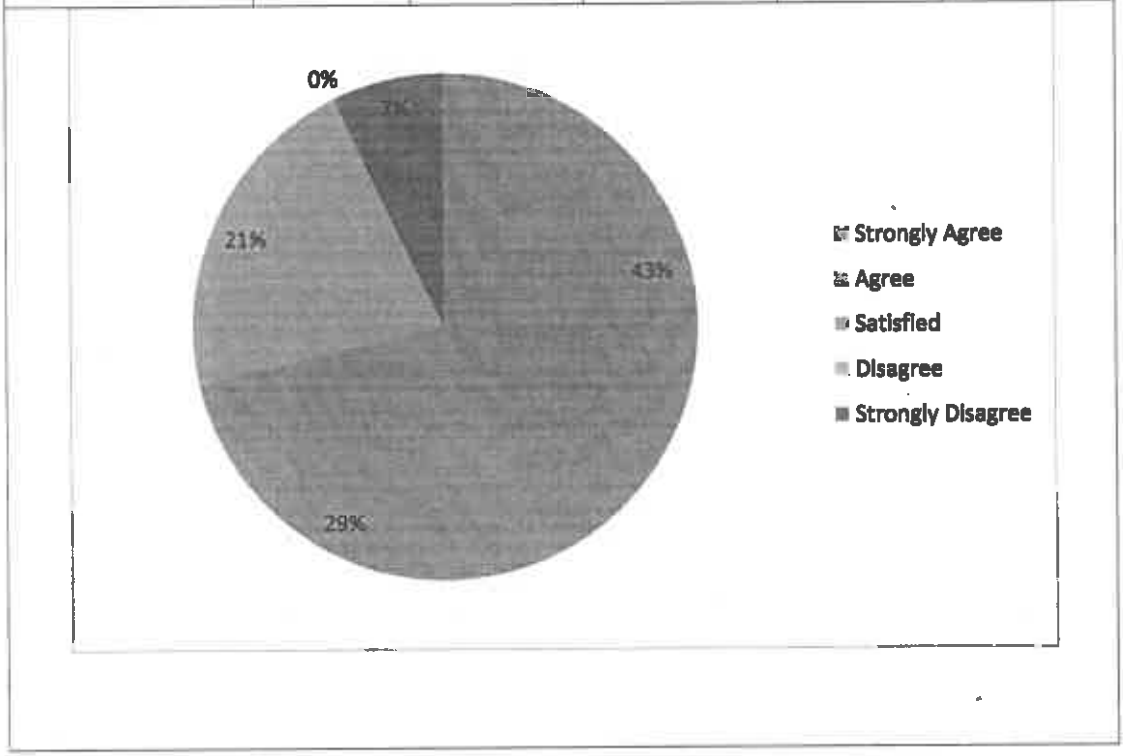
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	42.8571429	28.57142857	7.142857143	14.28571429	7.142857143



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Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

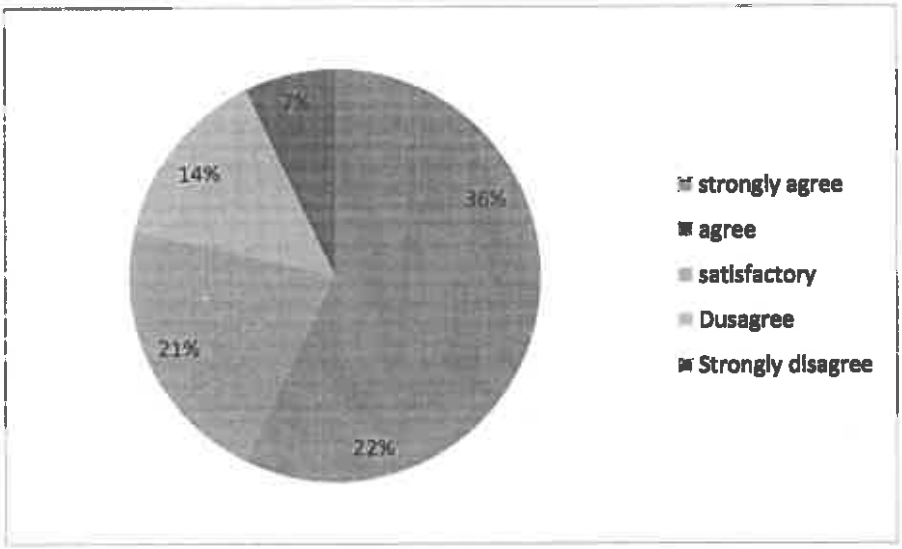
The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	42.8571429	28.57142857	21.42857143	0	7.142857143



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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

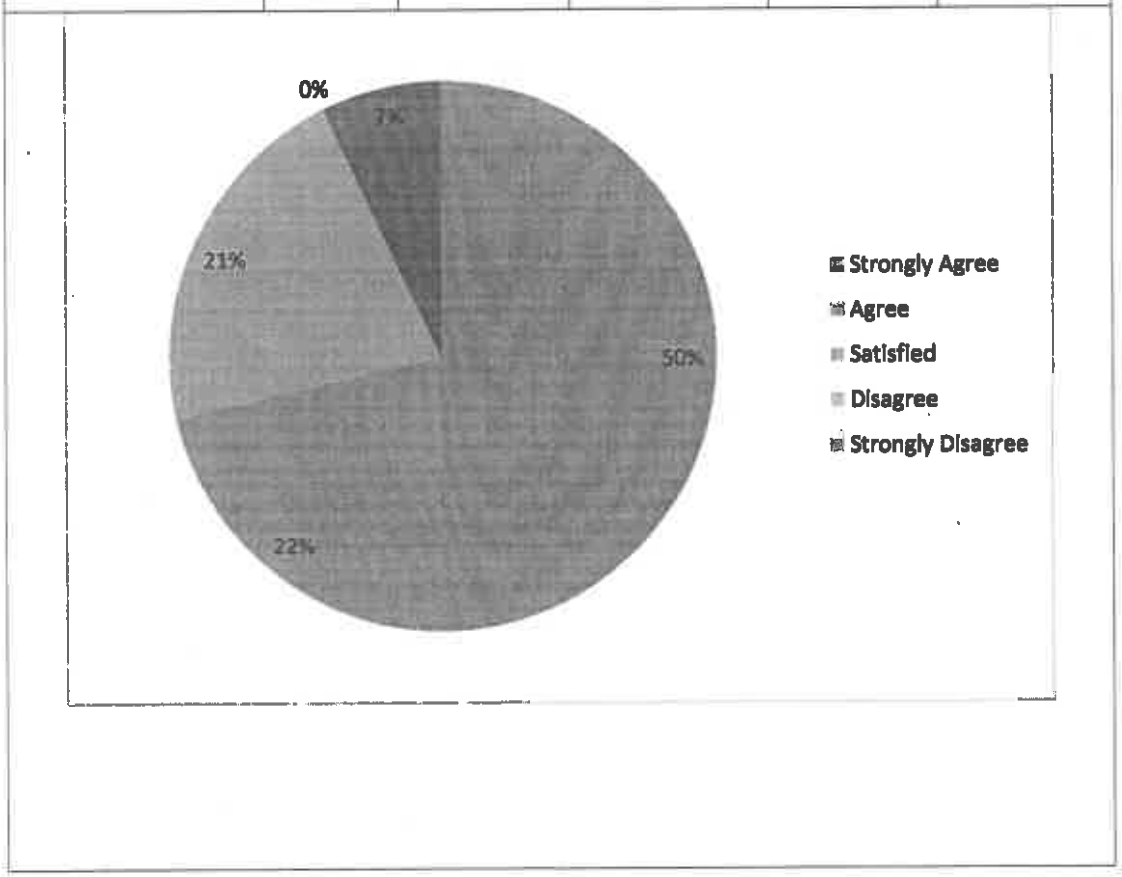
Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.7142857	21.42857143	21.42857143	14.28571429	7.1428571



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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	0	7.142857143



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School of Agriculture & Environmental Sciences(14)

Total no. of Teachers : 14		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	7	3	3	1	0
	Percentage	50	21.4285714	21.4285714	7.1428571	0
The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	7	2	3	1	1
	Percentage	50	14.2857143	21.4285714	7.1428571	7.1428571
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	8	2	2	1	1
	Percentage	57.1428571	14.2857143	14.2857143	7.1428571	7.1428571
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	8	2	1	2	1
	Percentage	57.1428571	14.2857143	7.14285714	14.285714	7.1428571
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	7	3	3	1	0
	Percentage	50	21.4285714	21.4285714	7.1428571	0
The curriculum provides ample knowledge for increased employability and to promote	No. of Teachers	6	4	1	2	1
	Percentage	42.8571429	28.5714286	7.14285714	14.285714	7.1428571

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students for higher education.						
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	6	4	3	0	1
	Percentage	42.8571429	28.5714286	21.4285714	0	7.1428571
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	5	3	3	2	1
	Percentage	35.7142857	21.4285714	21.4285714	14.285714	7.1428571
The existing system for curriculum revision is found to be effective.	No. of Teachers	7	3	3	0	1
	Percentage	50	21.4285714	21.4285714	0	7.1428571

Analysis of Feedback:

The feedback from the 14 teachers in the School of Agriculture & Environmental Sciences reveals a generally positive perception of the curriculum, with some areas for further enhancement. Half of the faculty (50%) strongly agree that the curriculum is well-organized, balanced, and properly credit-allocated, with a significant portion (21.4%) agreeing. However, some faculty (21.4%) are only satisfied, indicating room for improvement. Regarding the balance between theory and application, 50% of teachers strongly agree, while a smaller portion (14.3%) agree, and 21.4% are satisfied, suggesting that while the balance is largely seen as appropriate, there is a slight opportunity to further align theory and practical learning.

The curriculum's multidisciplinary scope and the availability of elective courses are considered adequate by 57.1% of teachers, but 14.3% feel this aspect could be improved. For personality development, 57.1% of teachers appreciate the inclusion of courses on human values and professional ethics, although 7.1% are only satisfied. When it comes to entrepreneurial skills and industry readiness, 50% strongly agree, with a further 21.4% agreeing, highlighting a positive response but suggesting room for further development.

Regarding employability and higher education promotion, 42.9% of teachers believe the curriculum is effective, with 28.6% agreeing, but 7.1% are only satisfied, indicating some concern in this area. The curriculum's focus on problem-solving capabilities related to local and global societal issues is appreciated by 42.9% of teachers, while 28.6% agree, and 21.4% are satisfied.

On the topic of faculty involvement in curriculum design, 35.7% of teachers feel they have adequate freedom to offer input, with 21.4% agreeing and another 21.4% satisfied, suggesting that more opportunities for teacher engagement may be beneficial. Lastly, the system for curriculum revision is seen as effective by half of the teachers (50%), but like other areas, there remains some space for enhancement in the remaining 21.4% who are satisfied. Overall, the feedback shows general satisfaction but highlights areas like employability, entrepreneurial skills, and faculty involvement where further improvements could be made.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action taken	Outcome
1	Enhance the balance between theory and application in the curriculum	Increased emphasis on practical training, hands-on projects, and real-world case studies across courses. Additional industry collaborations and field visits have been incorporated.	Positive feedback from students regarding practical learning experiences. Enhanced integration of theoretical knowledge with real-life application.
2	Expand multidisciplinary scope and elective courses	A review of the existing electives was carried out, leading to the introduction of new interdisciplinary courses that incorporate topics from various fields.	Greater variety in electives, resulting in increased student interest and enrollment in these courses. Broader knowledge base for students.
3	Improve entrepreneurial skills and industry readiness	Introduced more entrepreneurship-focused workshops, guest lectures from industry experts, and industry internships. Collaborative projects with industry partners have been introduced.	Higher student participation in entrepreneurship workshops. Industry partners reported a greater alignment of students' skills with industry needs.
4	Increase faculty involvement in curriculum design	Conducted regular curriculum review meetings and invited faculty to contribute ideas for course content and structure. More opportunities for faculty feedback in curriculum design were provided.	Increased faculty engagement and satisfaction with the curriculum design process. Positive feedback regarding enhanced communication between faculty and curriculum developers.

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Annexure-3 (Item BOS 22.4)

Shobhit University, Gangoh

(Established by UP Shobhit University Act No. 3, 2012)

School of Agriculture And Environmental Sciences

Ordinances, Regulations & Syllabus

For

Bachelor of Science in Agriculture (B.Sc.) Four Year Programme Semester Pattern
(w.e.f. session 2013-14)

Approved and adopted in the year 2023 (22nd Meeting of the Board of Studies)

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Programme Educational Objectives (PEOs)

PEO 1 Foundational Knowledge: Graduates will possess a strong understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural economics, enabling them to address challenges in the agricultural sector.

PEO 2 Practical Skills: Graduates will develop practical skills in modern agricultural practices, including crop production, pest management, and sustainable farming techniques, allowing them to effectively contribute to agricultural productivity.

PEO 3 Research and Innovation: Graduates will be equipped to engage in research and innovation, utilizing scientific methods to solve agricultural problems and contribute to advancements in the field.

PEO 4 Sustainability and Environmental Stewardship: Graduates will understand the principles of sustainable agriculture and environmental conservation, promoting practices that ensure food security while preserving natural resources.

PEO 5 Communication and Leadership: Graduates will possess effective communication and leadership skills, enabling them to work collaboratively in diverse teams and to advocate for agricultural development and policy changes.

PEO 6 Lifelong Learning: Graduates will be prepared for lifelong learning and professional development, adapting to emerging trends and technologies in agriculture to remain relevant in their careers.

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Programme Specific Objectives (PSO's)

PSO 1 To impart a strong foundation in agricultural science, including plant biology, soil science, and animal husbandry.

PSO 2 To develop practical skills through hands-on training in farming techniques, crop management, and animal care.

PSO 3 To encourage students to engage in research and innovation to address contemporary agricultural challenges, such as food security and sustainable farming.

PSO 4 To promote sustainable agricultural practices that protect the environment and enhance productivity.

PSO5 To familiarize students with the latest agricultural technologies, including precision farming, biotechnology, and data analytics.

PSO6 To provide insights into agricultural economics, marketing, and policy, enabling students to make informed decisions in the agricultural sector.

PSO7 To develop critical thinking and problem-solving skills necessary for effective decision-making in agriculture.

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Programme Outcome Objectives (POO's)

POO 1 Knowledge Application: Demonstrate a comprehensive understanding of agricultural sciences, including plant and animal biology, soil science, and agricultural engineering.

POO 2 Research Skills: Conduct research using scientific methods, including data collection, analysis, and interpretation, to solve agricultural problems.

POO 3 Sustainable Practices: Promote sustainable agricultural practices that enhance productivity while preserving environmental health and biodiversity.

POO 4 Technical Proficiency: Utilize modern agricultural technologies and tools for efficient farming practices, including precision agriculture and biotechnology.

POO 5 Critical Thinking: Analyze and evaluate agricultural policies, practices, and issues critically, fostering informed decision-making.

POO 6 Communication Skills: Communicate effectively, both verbally and in writing, to diverse audiences, including farmers, policymakers, and the general public.

POO 7 Teamwork and Leadership: Work collaboratively in teams, demonstrating leadership skills in agricultural projects and initiatives.

POO 8 Economic Understanding: Understand the economic principles related to agricultural production, marketing, and management.

POO 9 Ethics and Responsibility: Uphold ethical standards in agricultural practices, considering social responsibilities and the impact on communities.

POO 10 Lifelong Learning: Foster a commitment to continuous learning and professional development in the agricultural sector.

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Course Structure

Ordinance and Regulations

B.Sc. Ag. Hons. 4th Semester Syllabus

Core Course (CC-1)

Problematic Soils and their Management (BAG-208)

CO: COURSE OBJECTIVES

CO-1 Fundamental Knowledge: Equip students with a strong understanding of agricultural sciences, including plant science, soil science, animal husbandry, and agricultural economics.

CO-2 Practical Skills: Develop practical skills in crop production, pest management, and sustainable agricultural practices through hands-on experience and laboratory work.

CO-3 Research Proficiency: Foster research skills through project work and field studies, enabling students to design, conduct, and analyze agricultural research.

CO-4 Sustainable Practices: Promote awareness of sustainable agriculture and environmental stewardship, focusing on practices that enhance productivity while conserving natural resources.

CO-5 Technology Integration: Introduce students to modern agricultural technologies, including precision agriculture, biotechnology, and data management systems.

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Course Contents

Unit- I:

Introduction to Problematic Soils, Definition and classification of problematic soils, Importance and distribution of problematic Soils, Identification of problematic soils in the field, Soil quality and health, Distribution of Waste land and problem soils in India.

Unit- II:

Reclamation and management of Saline and sodic soils, Acid soils, Acid Sulphate soils, Eroded and Compacted soils, Flooded soils, Polluted soils, Peaty and marshy soils, Heavy metal-contaminated soils.

Unit- III:

Irrigation water – quality and standards, utilization of saline water in agriculture, Role of biotechnology in soil management, Remote sensing and Use of remote sensing and GIS in soil assessment and management of problem soils, Innovations in soil remediation.

Unit- IV:

Multipurpose tree species, bio remediation through MPTs of soils, land capability and classification, land suitability classification. Problematic soils under different Agro-ecosystems, Successful management of problematic soils in different regions, Research developments in soil management practices.

Suggested Readings

1. **"Soil Salinity Management"** by H. S. Dhir and R. K. Singh
2. **"Problematic Soils: Management and Reclamation"** by S. S. S. Reddy and J. S. P. K. Jha
3. **"Soil Chemistry and its Agricultural Applications"** by R. A. D. S. K. B. P. V. R. N. Rao
4. **"Soil and Water Management for Sustainable Agriculture"** by D. B. D. G. K. D. R. S. Rao
5. **"Principles and Practices of Soil Management"** by A. K. S. A. Kumar and R. S. R. K. R. S. Sharma

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B.Sc. Ag. Hons. 6th Semester Syllabus

Core Course (CC-1)

Crop Improvement-II (Rabi crops) (BAG-312)

CO: COURSE OBJECTIVES

CO-1 Understanding Crop Genetics: To provide students with a comprehensive understanding of the genetic principles underlying the improvement of rabi crops.

CO-2 Breeding Techniques: To familiarize students with various breeding techniques and methodologies used in the enhancement of rabi crops, including traditional and modern approaches.

CO-3 Crop Physiology: To study the physiological aspects that influence the growth and yield of rabi crops, focusing on how these factors can be manipulated for better productivity.

CO-4 Disease Resistance: To explore the mechanisms of disease resistance in rabi crops and the role of biotechnology in developing resistant varieties.

CO-5 Varietal Development: To educate students on the process of varietal development, including selection, testing, and release of new crop varieties suited for different agro-climatic conditions.

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Course Contents

Unit- I:
Definition and significance of rabi crops, Major rabi crops: wheat, barley, pulses, and oilseeds, Climate and soil requirements for rabi crops, Centers of origin, distribution of species, wild relatives in different cereals, pulses, oilseeds, fodder crops and cash crops, vegetable and horticultural crops.

Unit- II:
Plant genetic resources, its utilization and conservation; study of genetics of qualitative and quantitative characters, Biotechnology in crop improvement, Genomic selection and CRISPR technology.

Unit- III:
Major breeding objectives and procedures including conventional and modern innovative approaches for development of hybrids and varieties for yield, adaptability, stability, abiotic and biotic stress tolerance and quality (physical, chemical, nutritional), Breeding strategies: pedigree method, bulk method, and backcross breeding.

Unit- IV:
Hybrid seed production technology of rabicrops. Ideotype concept and climateresilient crop varieties for future, Agronomic practices for improving the yield of rabi crops, Role of fertilizers and soil health in crop productivity, Future prospects in the breeding of rabi crops.

Suggested Readings:

1. **"Principles of Crop Improvement"** by J. A. J. B. M. S. B. Shukla
2. **"Breeding of Field Crops"** by B. D. Singh
3. **"Genetics and Breeding of Field Crops"** by R. C. Gupta
4. **"Crop Improvement: Techniques and Procedures"** by S. S. Yadav
5. **"Rabi Crop Production"** by J. S. Ahlawat

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Annexure-4 (Item BOS 22.4)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2023-2024)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102 Fundamentals of Genetics	External Examiner 1. Dr. S. K. Singh, Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		2. Dr.AshvaniPanwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr.AyushBahuguna , Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890

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			shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350

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			rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
7)	BAG-114 Fundamentals of	Internal Examiner 1. Harikesh Singh	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com

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	Entomology	Designation- Associate Professor, , Gochar Mahavidhyalya	
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		1. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
9)	BAG-118 Communication Skills and Personality	1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com

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	Development	2. Dr. L. B. Singh Professor , SVBPUAT Meerut	09450155766 dr.lbsingh@gmail.com
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+91-9411039192, 8630896418 Email: singhjp2005@gmail.com
		Internal Examiner 1 Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713

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12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
		2. Er. Sudheer Kumar, Assistant Professor	+91-9560440257 sudheergkp@gmail.com
		Internal Examiner 1 Dr. Mahemdru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
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		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology for Fruit and Plantation Crops	External Examiner 1. Dr. Rakesh Kumar Singh Professor, **(CCSR PG College, Muzaffarnagar)**	9412113662 hahe1624@gmail.com
		2. Dr. R. K. Naresh Professor	09760182606

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		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		2. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		Internal Examiner 1. Dr Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		2. Dr. S. K. Singh (Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
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17)	BAG-216 Agricultural Marketing Trade & Prices	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		2. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
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		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Profes sor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
19)	BAG-304 Protected Cultivation and Secondary Agriculture	External Examiner 1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		2. Deepak Kumar Mishra Assistant Professor,	09412484754

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20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
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21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
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22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
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		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
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24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com

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		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management, Production & Resource Economics	External Examiner 1. Dr. Adesh Kumar Assistant Professor SVBPUAT, Meerut	09412628586 adeshsingh29@rediffmail.com
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in

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		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

Signed by:

(Chairman, BOS)

(Dean Academies)

(Vice Chancellor)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 07.12.2024

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 18.12.2024
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 23rd BOS Meeting held on 12th June 2024 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Analysis of Students' feedback & Action taken report:
3. Analysis of the feedback on curriculum from stakeholders:
4. Approval of New Interdisciplinary courses in 5th Semester in B.Sc. Agriculture Hons.
5. Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for the session **Jan. to June 2025.**
6. Discussion on the Value Added courses offered for students and ratification of the same.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University, Gangoh (Saharanpur)

School of Agriculture & Environmental Sciences ★ H.O.D. ★ SHOBHIT UNIVERSITY GANGOH

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 07.12.2024

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 18.12.2024
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 07.12.2024

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 18.12.2024
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

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We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SCHOOL OF AGRICULTURE & ENVIRONMENTAL SCIENCES ★ H.o.D. ★

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U.: www.su.ac.in

SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 18.12.2024

Attendance Sheet (24th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C. S. Singh	External	
3.	Dr. Shivani	Internal	
4.	Mr. Amit Kumar	Internal	

Chairman

School of Agri. & Env. Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 18.12.2024

Minutes of the Meeting of Board of Studies

24th meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 18th Dec. 2024 at 10:00 am onwards. The following members were present in the meeting:

11. Dr. Vikas Kumar — Chairperson
    Asstt. Professor & Head
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

12. Dr. D. V. Singh — External expert
    Principal
    Vidyadeep Degree College
    Bilaspur Saharanpur

13. Dr. C. S. Singh — External Expert
    Associate Professor
    Gochar Mahavidyalaya
    Rampur Maniharan Saharanpur

14. Dr. Shivani — Member
    Asstt. Professor
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

15. Mr. Amit Kumar — Member
    Asstt. Professor
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

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The following discussed and approved on Choice Based Credit System:

Item BOS 24.1: Approval of the Minutes of the 23rd BOS Meeting held on 12th June 2024 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 24.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of academic session. The BOS members noted the same.

Item BOS 24.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 24.4: Approval of New Interdisciplinary courses in 5th Semester in B.Sc. Agriculture Hons. {Annexure-3}

- BOS members approved Syllabus of 5th semester-course code: **BAG-317C (Research on a Medicinal Plant)**

Item BOS 24.5: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for the session **Jan. to June 2025** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-4}

Item BOS 24.6: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean

Academics. The action taken on the suggestions has been approved by competent authorities.

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- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Dean Academics)

(Vice Chancellor)

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Annexure- 1 (Item BOS 24.1)

School of Agriculture & Environmental Sciences

Date: 12.06.2024

Minutes of the Meeting of Board of Studies

23rd meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 12th June 2024 at 10:00 am onwards. The following members were present in the meeting:

16. Dr. Vikas Kumar — Chairperson
    Asstt. Professor & Head
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

17. Dr. D. V. Singh — External expert
    Principal
    Vidyadeep Degree College
    Bilaspur Saharanpur

18. Dr. C. S. Singh — External Expert
    Associate Professor
    Gochar Mahavidyalaya
    Rampur Maniharan Saharanpur

19. Dr. Shivani — Member
    Asstt. Professor
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

20. Mr. Amit Kumar — Member
    Asstt. Professor
    School of Agriculture & Environmental Sciences
    Shobhit University Gangoh

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

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Item BOS 23.1: Approval of the Minutes of the 22nd BOS Meeting held on 21st Dec. 2023

was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 23.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B. Sc. Ag. Hons. for session **July to Dec. 2024** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 23.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

(Chairman, BOS)

(Vice Chancellor)

(Dean Academies)

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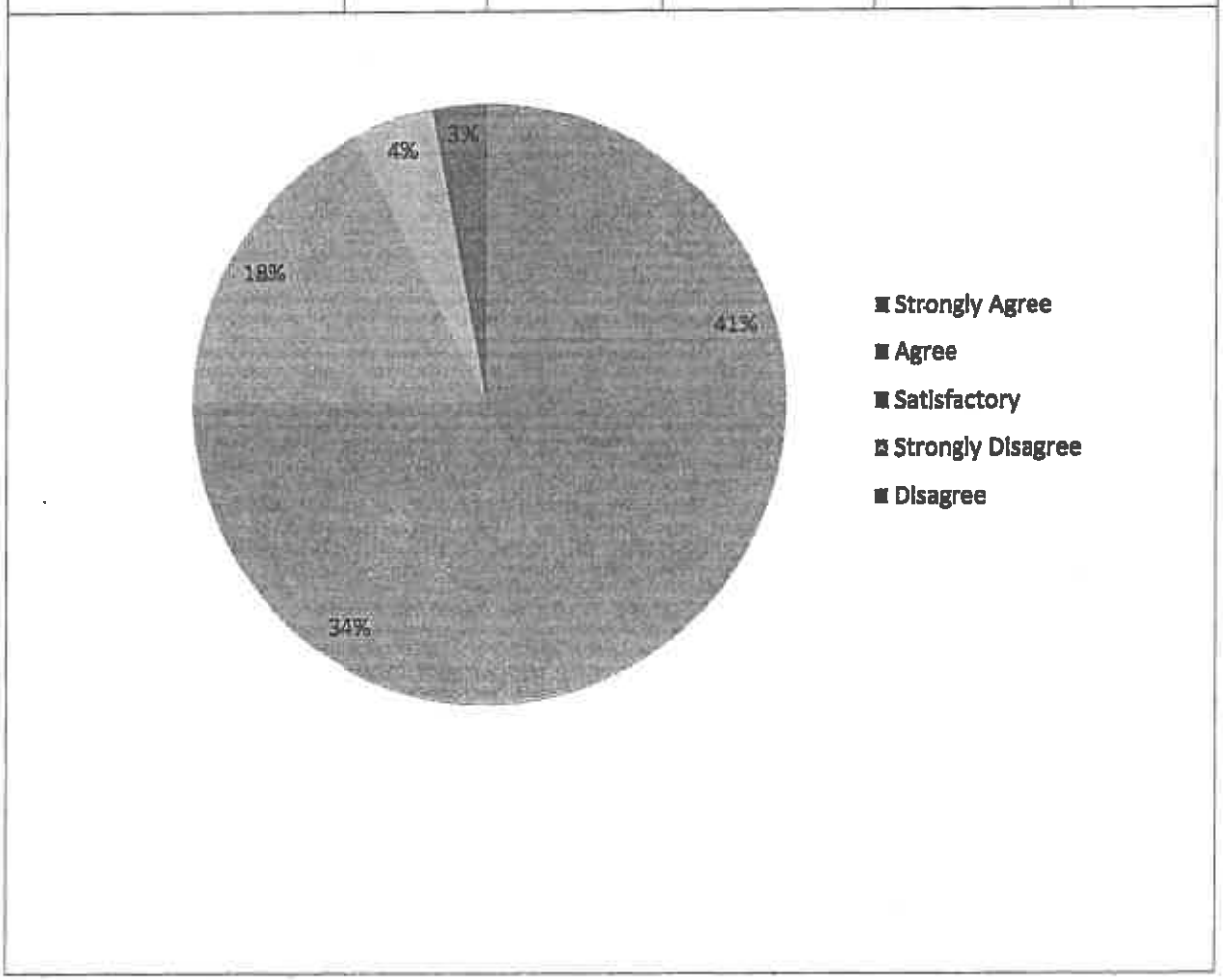
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Annexure-1 (Item BOS 24.2 & 24.3)

Analysis of Alumni' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

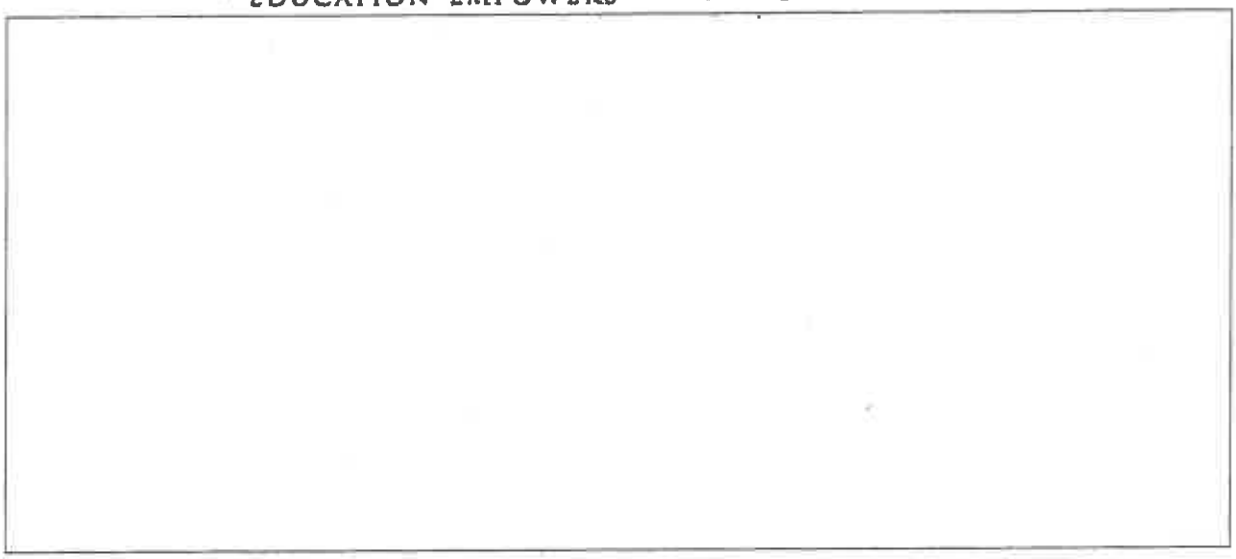
Q.1 The courses based on state of art trends and recent developments?

The courses based on state of art trends and recent developments	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	33.82	17.65	4.41	2.94



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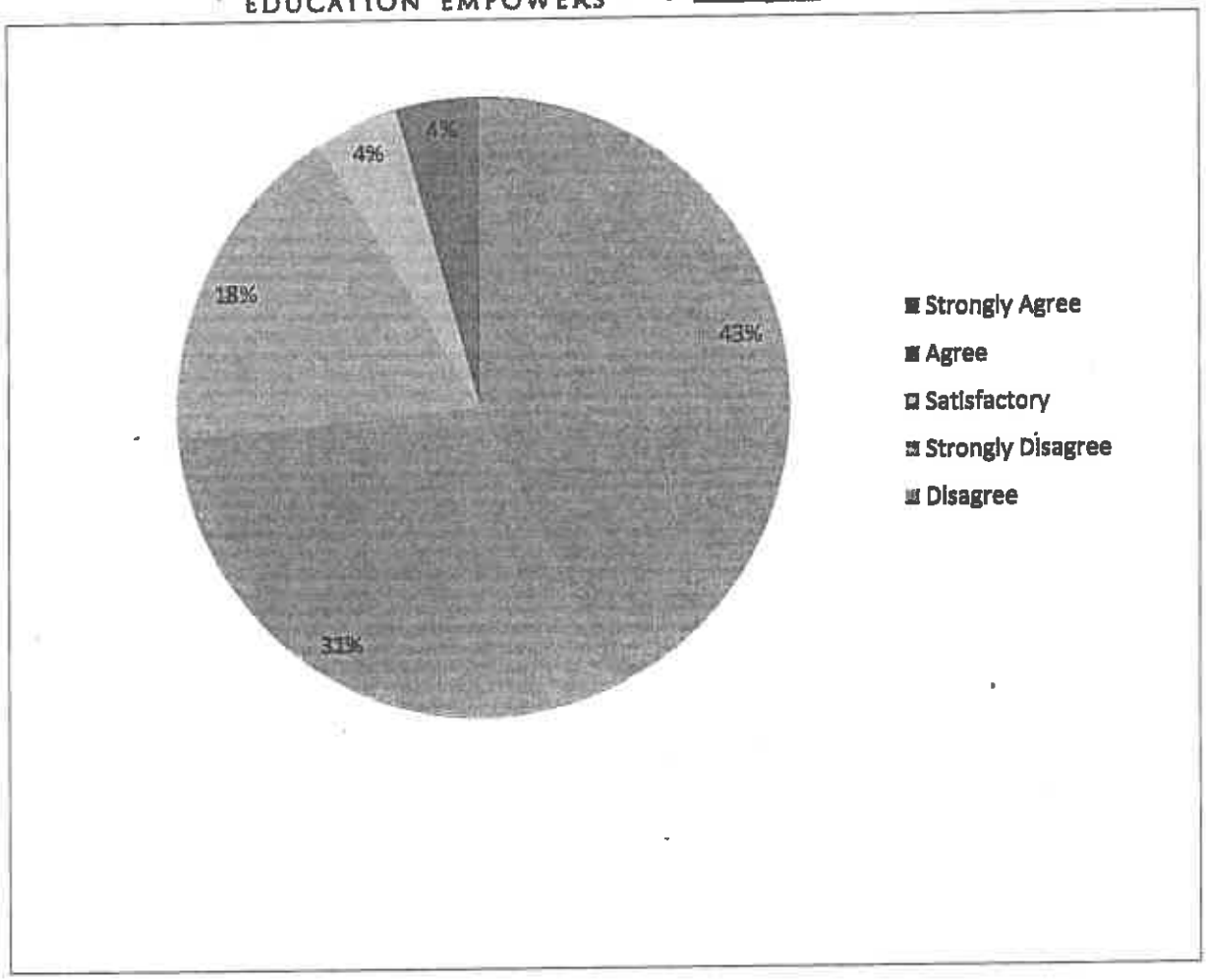


Q.2 The courses found to be helpful in developing skills and knowledge in respective domain?

The courses found to be helpful in developing skills and knowledge in respective domain	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	42.65	30.88	17.65	4.41	4.41

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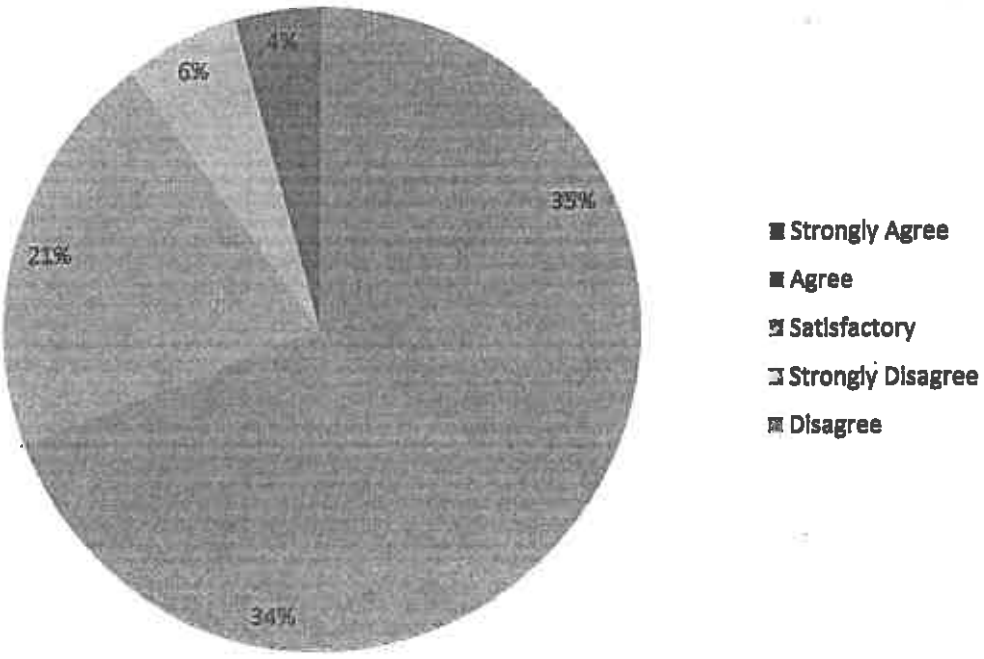


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Q.3 The courses found to be productive in competing professionally at national/international level?

The courses found to be productive in competing professionally at national/international level	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	33.82	20.59	5.88	4.41



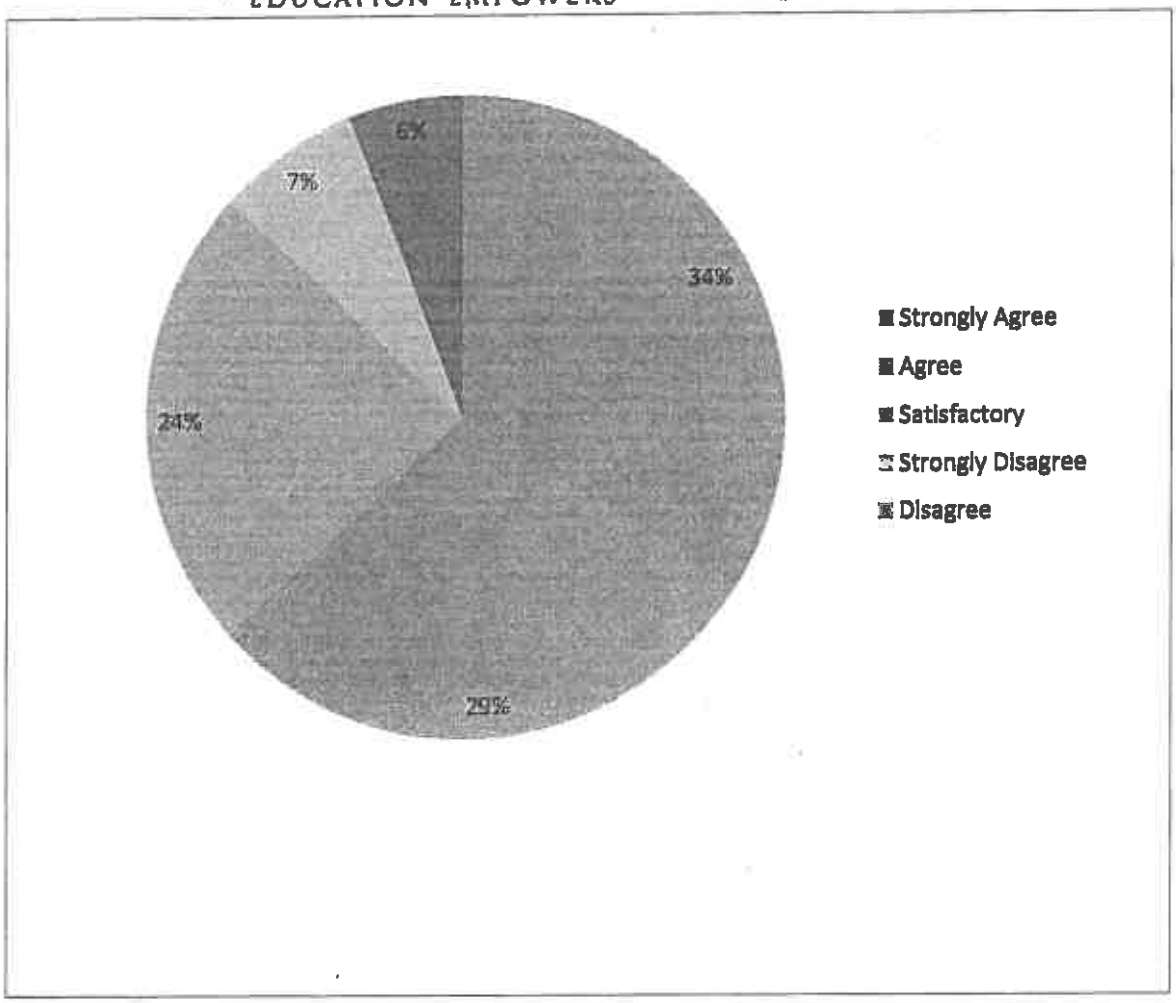
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Q.4 The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?

The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	33.82	29.41	23.53	7.35	5.88

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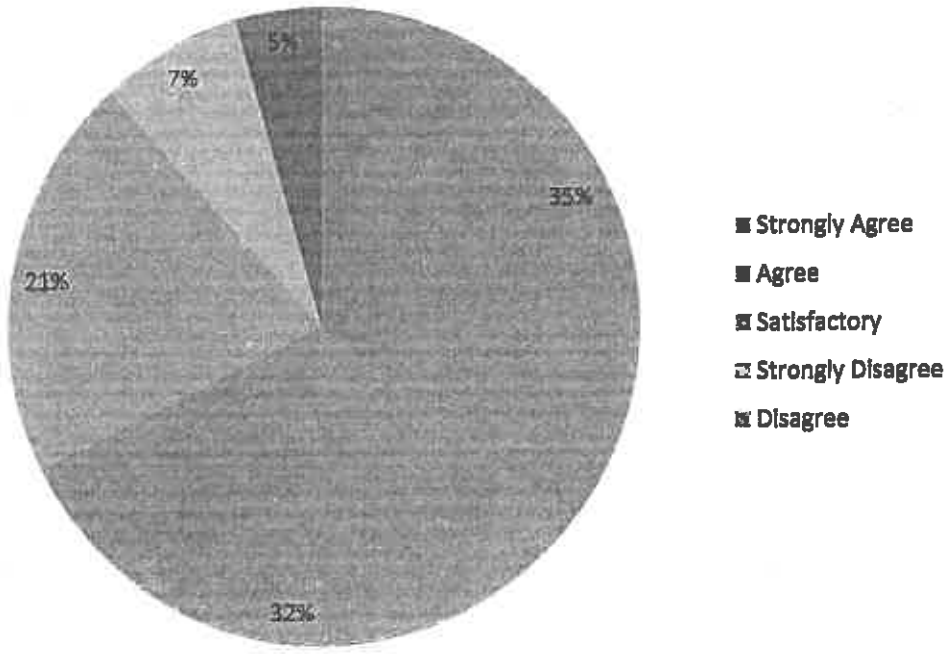


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Q.5 The programme helped to understand the impact of domain knowledge in social and global context?

The programme helped to understand the impact of domain knowledge in social and global context	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	32.35	20.59	7.35	4.41

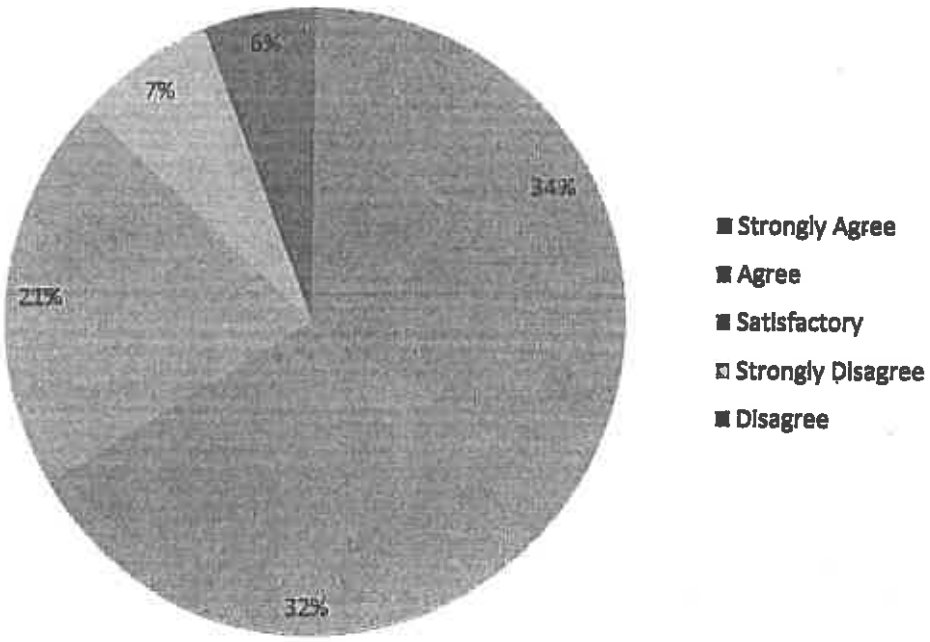


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Q.6 The programme provided awareness on recent advancements and innovations?

The programme provided awareness on recent advancements and innovations	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	33.82	32.35	20.59	7.35	5.88

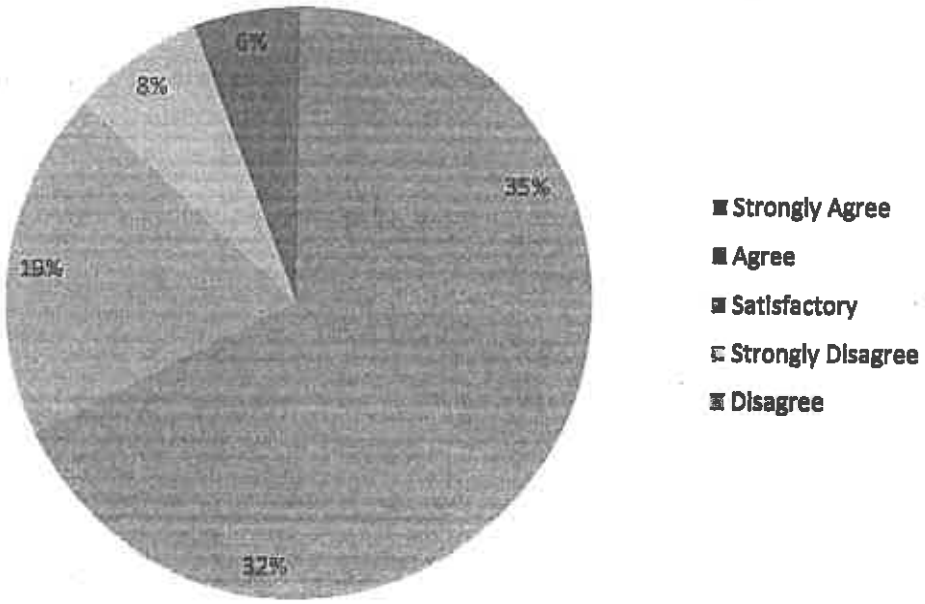


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Q.7 The programme improved critical thinking ability and problem-solving aptitude.

The programme improved critical thinking ability and problem-solving aptitude.	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	32.35	19.12	7.35	5.88

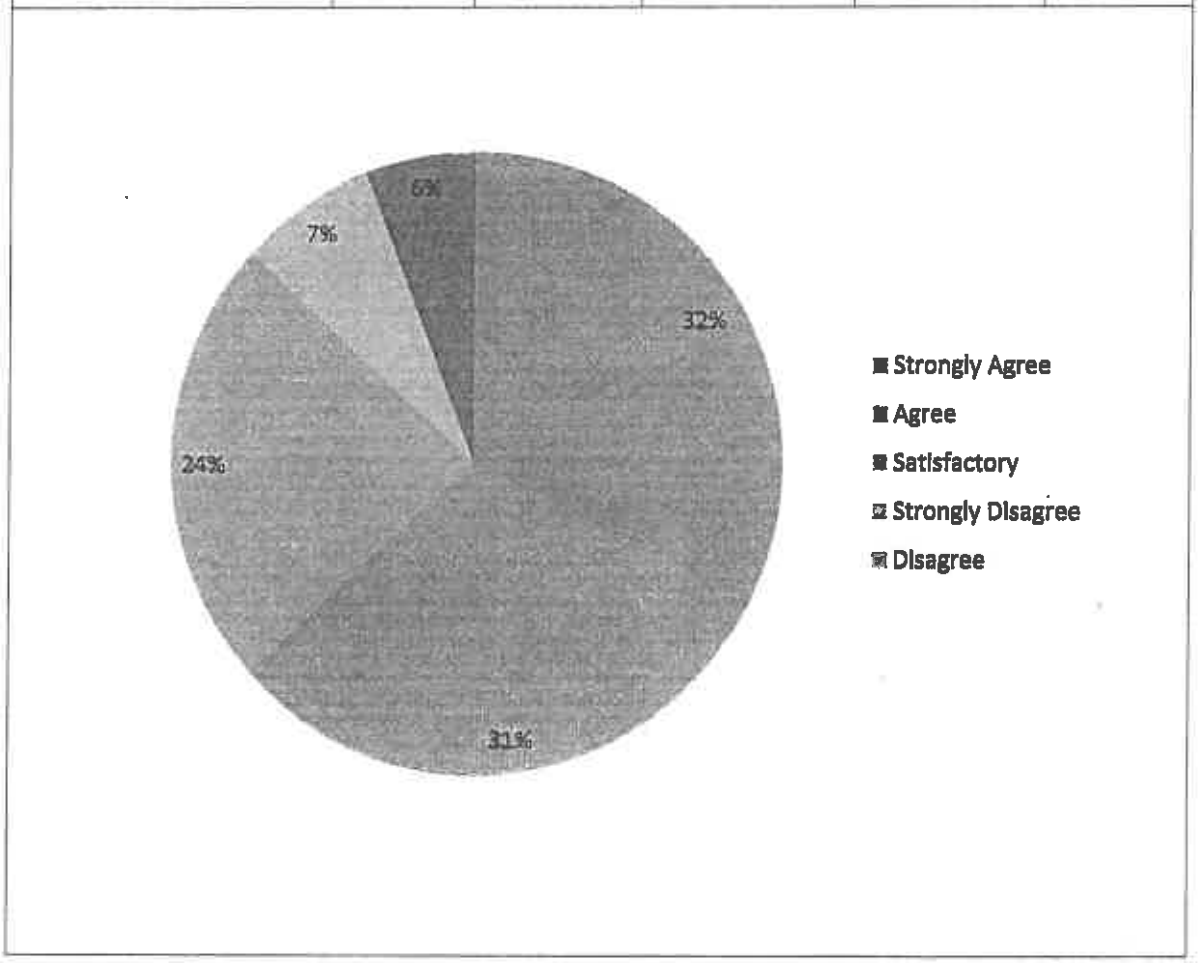


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Q.8 Theprogramme helped to take independent decisions and perform managerial & administerial functions diligently?

The programme helped to take independent decisions and perform managerial &administerial functions diligently	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	32.35	30.88	23.53	7.35	5.88



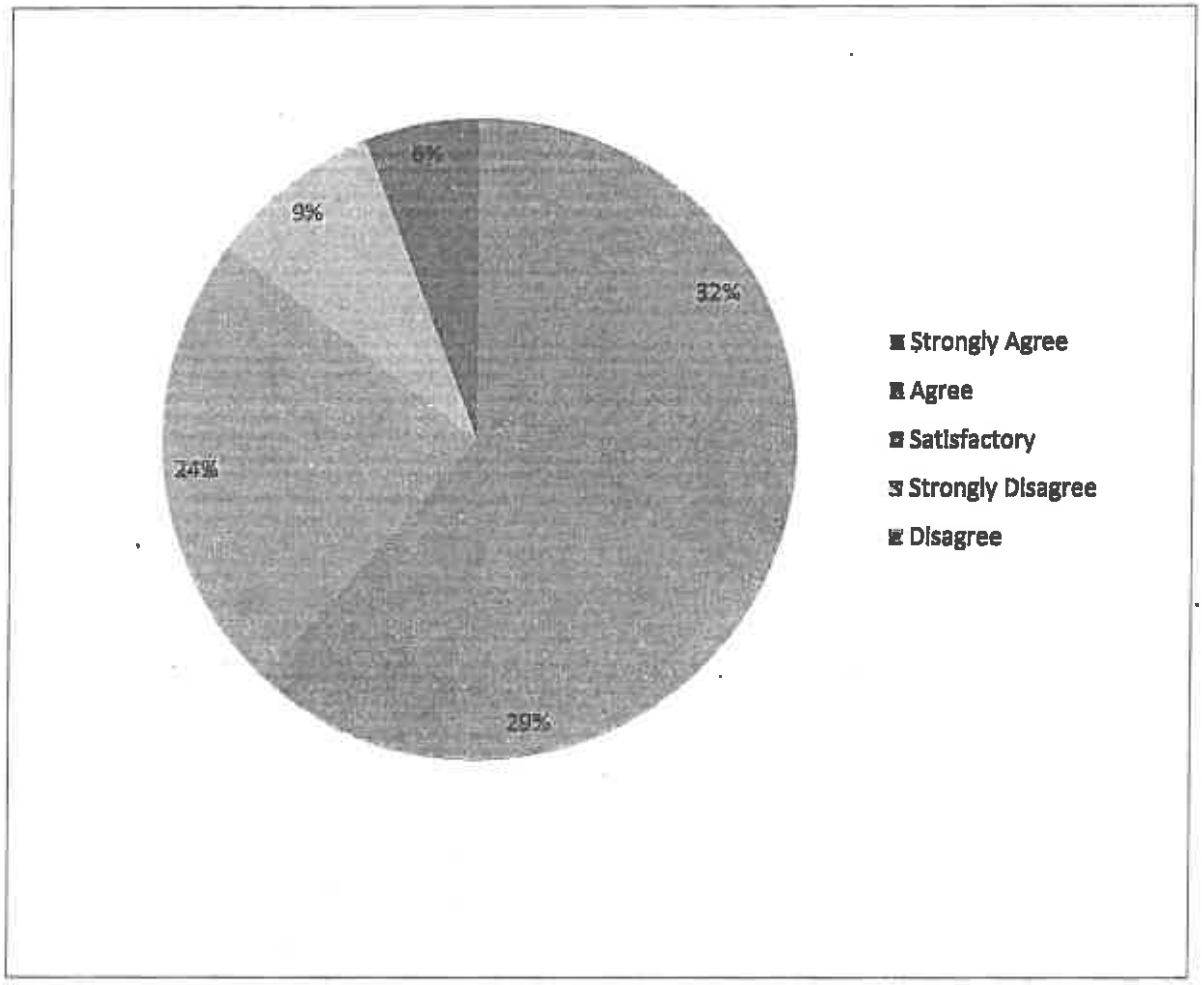
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Q.9 The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?

The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies	Strongly Agree	Agree	satisfactory	Disagree	Strongly Disagree
Response (%)	32.35	29.41	23.53	8.82	5.88

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	School of Agriculture and Environmental Science (68)						
Sr.No.	Questions		Strongly Agree	Agree	Satisfactory	Strongly Disagree	Disagree
1	The courses based on state of art trends and recent developments?	No of Alumni	28	23	12	3	2
		Percentage	41.18	33.82	17.65	4.41	2.94
2	The courses found to be helpful in developing skills and knowledge in respective domain?	No of Alumni	29	21	12	3	3
		Percentage	42.65	30.88	17.65	4.41	4.41
3	The courses found to be productive in competing professionally at national/international level?	No of Alumni	24	23	14	4	3
		Percentage	35.29	33.82	20.59	5.88	4.41
4	The courses found to be appropriate in motivating students towards nation building by inculcating ethical and professional values?	No of Alumni	23	20	16	5	4
		Percentage	33.82	29.41	23.53	7.35	5.88
5	The programme helped to understand the impact of domain knowledge in social and global context?	No of Alumni	24	22	14	5	3
		Percentage	35.29	32.35	20.59	7.35	4.41
6	The programme provided awareness on recent advancements and innovations?	No of Alumni	23	22	14	5	4
		Percentage	33.82	32.35	20.59	7.35	5.88
7	The programme improved critical thinking ability and problem-solving aptitude.	No of Alumni	24	22	13	5	4
		Percentage	35.29	32.35	19.12	7.35	5.88
8	The programme helped to take independent decisions and perform managerial &administerial functions diligently?	No of Alumni	22	21	16	5	4
		Percentage	32.35	30.88	23.53	7.35	5.88
9	The curriculum was helpful in acquiring advance level knowledge to pursue research and higher studies?	No of Alumni	22	20	16	6	4
		Percentage	32.35	29.41	23.53	8.82	5.88

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Analysis of the Feedback

The alumni feedback on the curriculum reveals a mixed perception of its effectiveness across various dimensions. Notably, the curriculum excels in areas related to personal and professional growth, with high scores for developing domain-specific skills and knowledge (92.65%), inculcating ethical and professional values (91.18%), and enhancing awareness of recent advancements and innovations (89.71%). Additionally, it supports managerial and administrative competency (86.76%), indicating strong alignment with soft skills and leadership development. However, the feedback highlights areas of concern where the programme appears less effective: critical thinking and problem-solving (59.00%), understanding the impact of domain knowledge in a broader context (61.00%), state-of-the-art relevance (63.00%), and readiness for global professional competition (62.00%). These suggest that while the curriculum is strong in foundational and ethical aspects, it may need significant updates in fostering innovation, global competitiveness, and higher-order cognitive skills to meet contemporary demands.

Action Taken Report

(School of Agriculture & Environmental Science)

Sr. No.	Suggestions	Action taken	Outcome
1	Enhance the alignment with state-of-the-art trends and advancements in agriculture.	Revised curriculum to incorporate emerging topics such as precision farming, climate-smart agriculture, sustainable agriculture technologies, and agroinformatics. Introduced hands-on training in advanced agricultural tools and technologies.	Increased student engagement with modern agricultural practices; better preparation for innovation-driven roles in the agricultural sector.
2	Strengthen global competitiveness and industry readiness.	Established international exchange programs with agricultural research centers and global agribusiness companies. Organized global workshops and webinars with leading industry experts.	Students gained international exposure; internship and job opportunities with multinational agricultural companies increased by 25%.

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3	Foster critical thinking, problem-solving, and higher-order cognitive skills.	Introduced problem-based learning (PBL) modules and case studies based on real-world agricultural challenges. Organized interdepartmental workshops on analytical thinking and decision-making in agricultural contexts.	Student performance in critical thinking assessments improved by 20%; increased participation in national agricultural policy debates and decision-making simulations.
4	Improve understanding of the broader impact of agriculture and environmental science on society.	Integrated courses on sustainable development, environmental policy, food security, and the socio-economic impact of agriculture into the curriculum. Initiated community outreach programs focused on sustainable farming and environmental education.	Enhanced student awareness of the social, economic, and environmental dimensions of agriculture; increased participation in sustainability-focused projects and community initiatives.

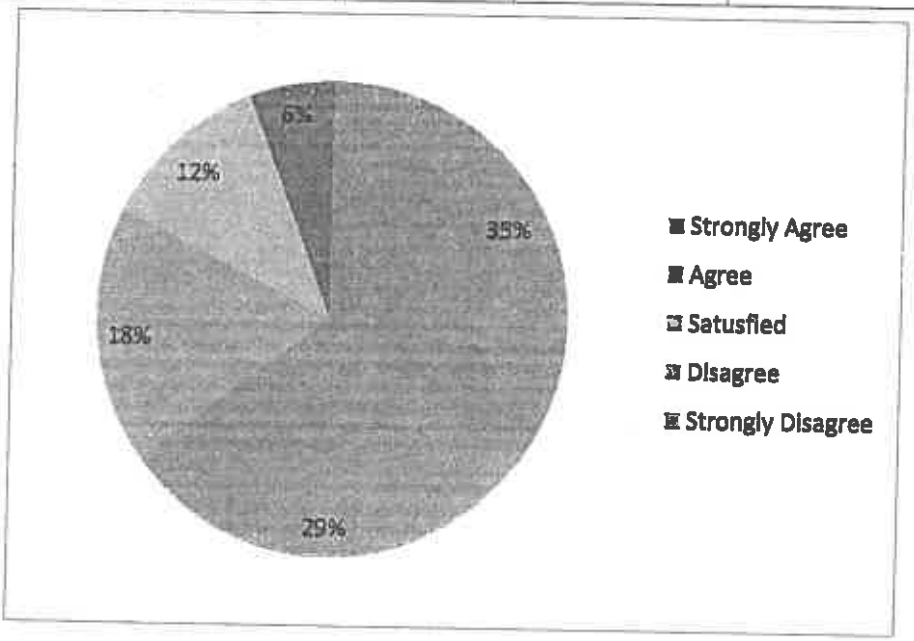
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Analysis of Peer Academician's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 curriculum assists the students to acquire necessary entry level skills in industrial sector.

The curriculum assists the students to acquire necessary entry level skills in industrial sector.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.3	29.4	17.6	11.8	5.9

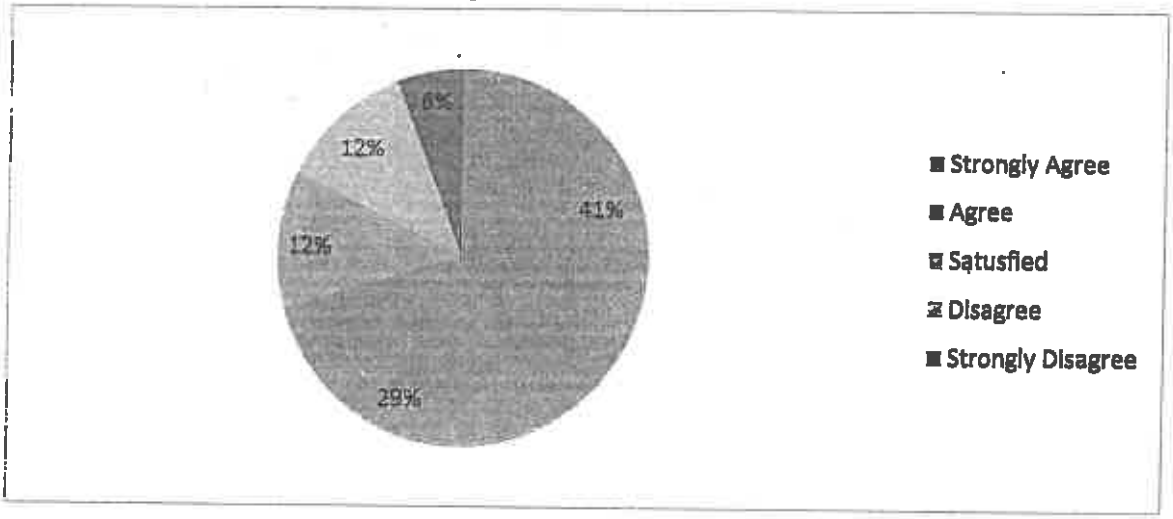


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Q.2 The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.

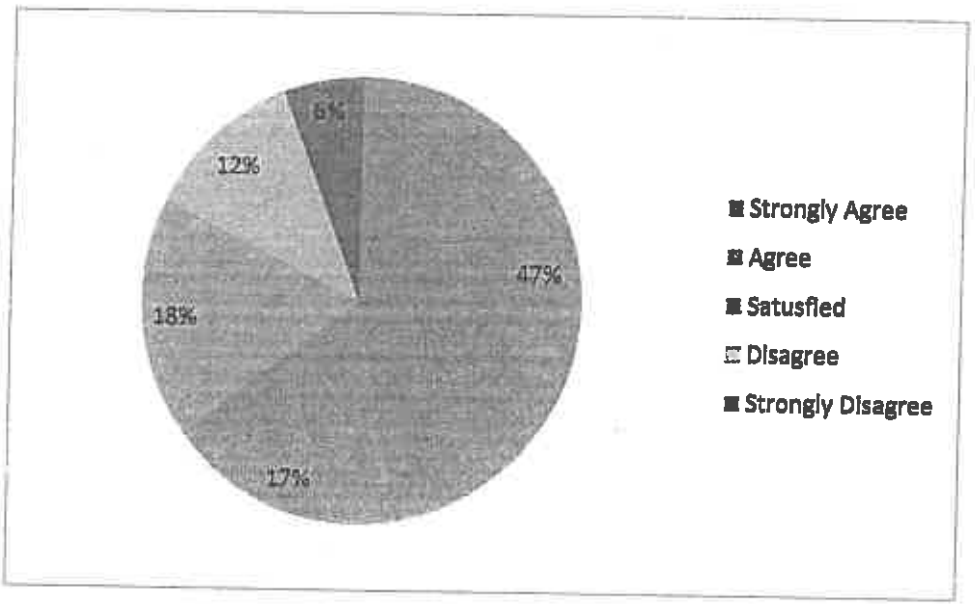
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	29.41	11.76	11.76	5.88



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

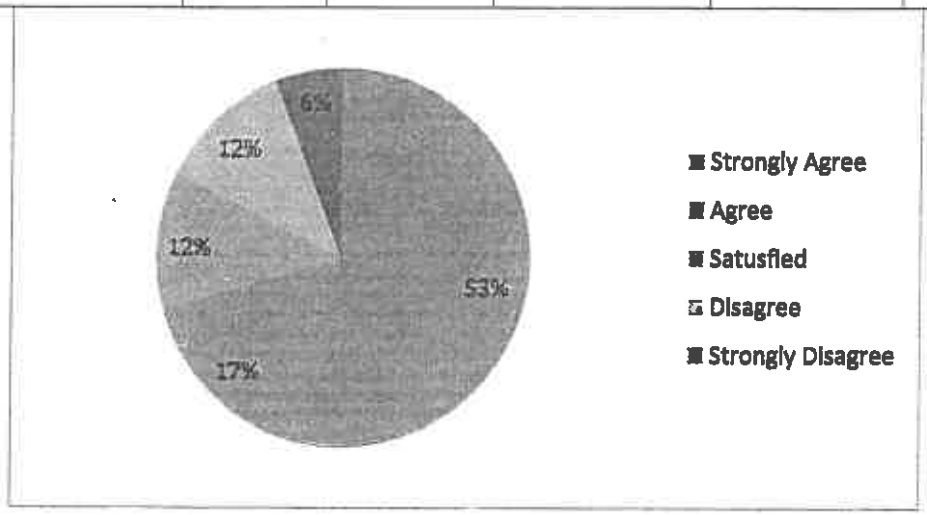
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	17.65	11.76	5.88



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Q.4 The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability.

The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	17.65	11.76	11.76	5.88

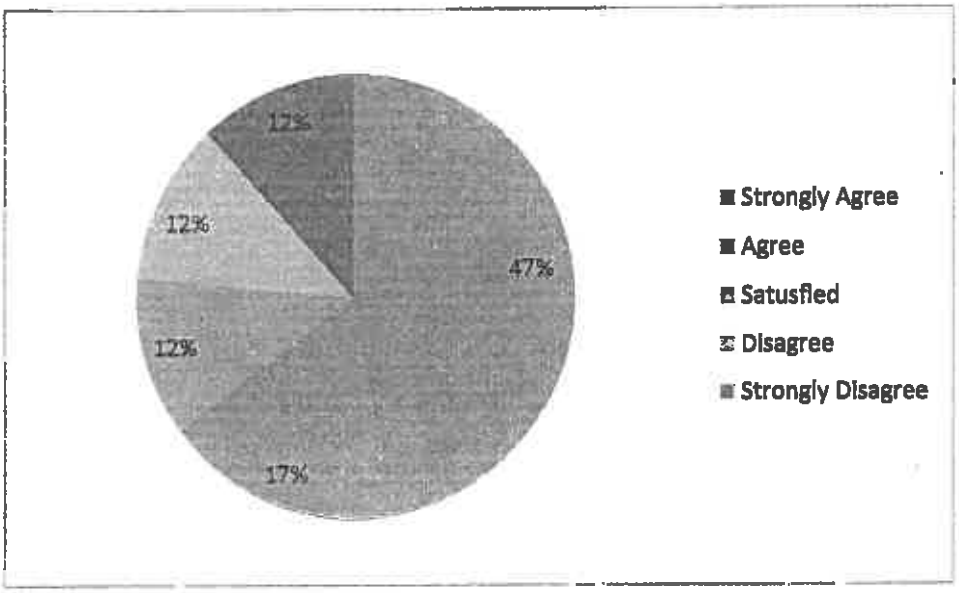


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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	17.65	11.76	11.76	11.76

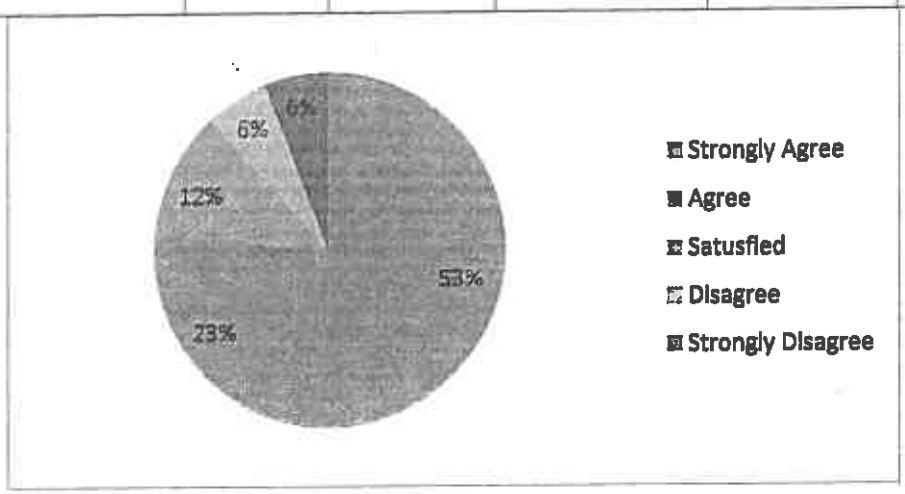


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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.94	23.53	11.76	5.88	5.88

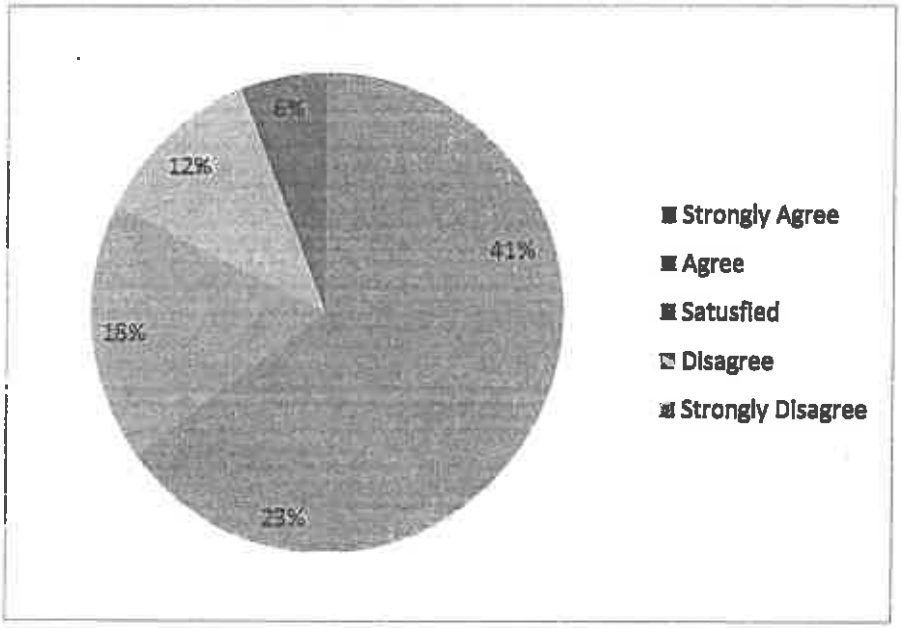


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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics.

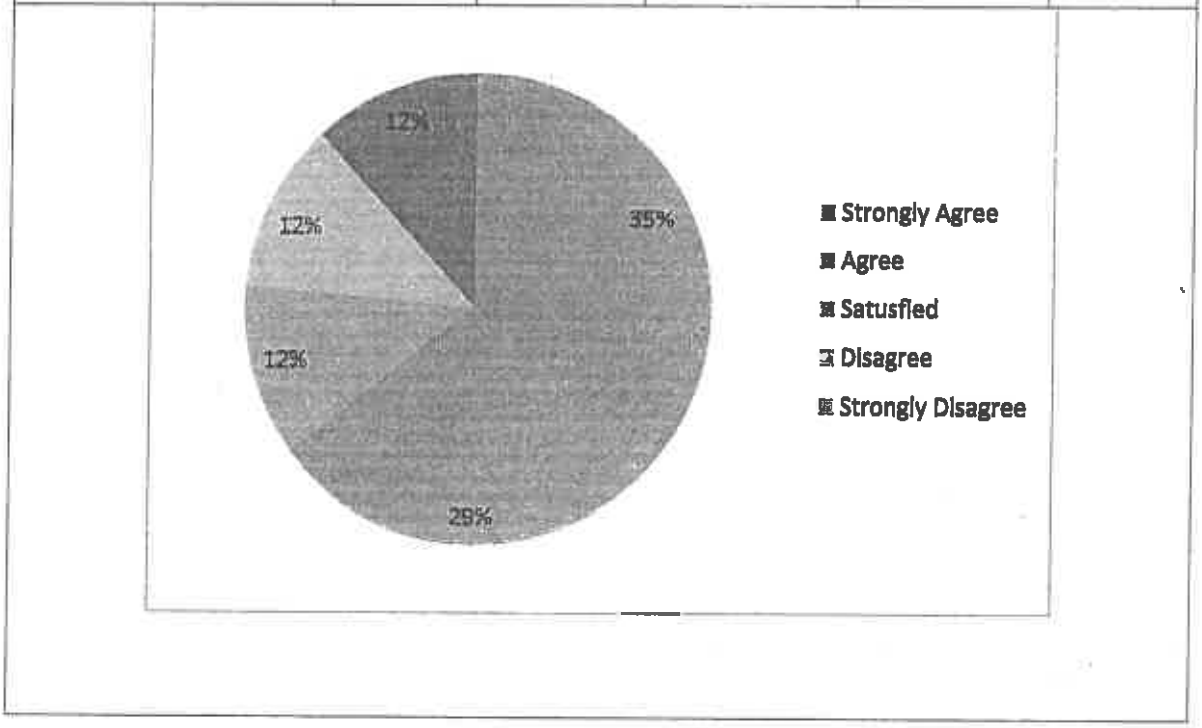
The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	41.18	23.53	17.65	11.76	5.88



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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.29	29.41	11.76	11.76	11.76

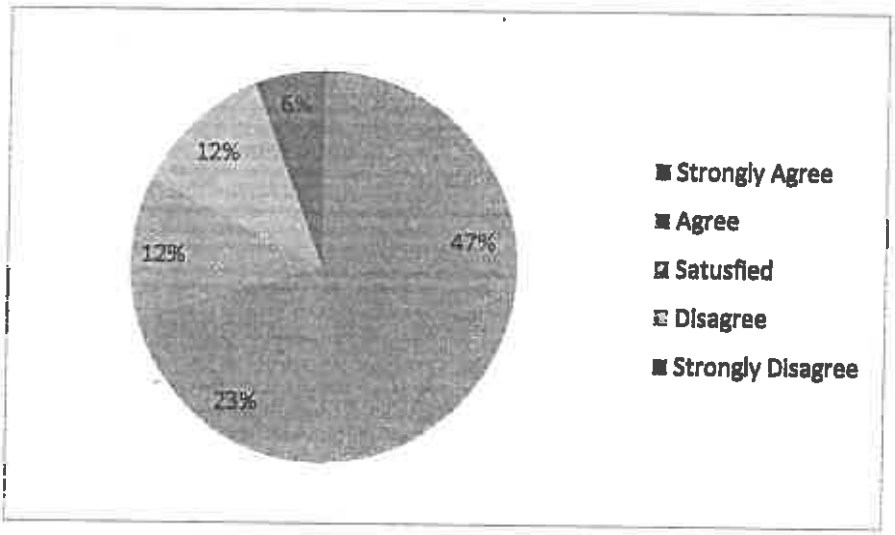


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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for student's holistic development	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	47.06	23.53	11.76	11.76	5.88



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School of Agriculture and Environmental Science(17)						
Total no. of Employer : 17		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The curriculum assists the students to acquire necessary entry level skills in industrial sector.	No. of Academicians	6	5	3	2	1
	Percentage	35.29	29.41	17.65	11.76	5.88
The curriculum offers adequate scope for life-long learning and higher-level aptitude for new technology/tools.	No. of Academicians	7	5	2	2	1
	Percentage	41.18	29.41	11.76	11.76	5.88
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Academicians	8	3	3	2	1
	Percentage	47.06	17.65	17.65	11.76	5.88
The curriculum has relevant content to assist students to work independently as well in a team with high level of adaptability	No. of Academicians	9	3	2	2	1
	Percentage	52.94	17.65	11.76	11.76	5.88
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	8	3	2	2	2
	Percentage	47.06	17.65	11.76	11.76	11.76
The curriculum provides ample knowledge for	No. of Academicians	9	4	2	1	1

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increased employability and to promote students for higher education.	Percentage	52.94	23.53	11.76	5.88	5.88
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Academicians	7	4	3	2	1
	Percentage	41.18	23.53	17.65	11.76	5.88
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	6	5	2	2	2
	Percentage	35.29	29.41	11.76	11.76	11.76
The courses have adequate balance between theory and application for student's holistic development.	No. of Academicians	8	4	2	2	1
	Percentage	47.06	23.53	11.76	11.76	5.88

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Analysis of Feedback:

Employers' feedback on the curriculum indicates a generally high level of satisfaction, with most aspects rated at **82.35%**, reflecting a strong alignment with industry needs. The curriculum is praised for equipping students with necessary entry-level skills, promoting life-long learning, supporting multidisciplinary education, and fostering both individual and team-oriented adaptability. Additionally, it is viewed positively for its focus on personality development and its balanced approach to theory and application. Notably, the highest score of **88.24%** was given for the curriculum's effectiveness in enhancing employability and encouraging higher education, suggesting strong academic and professional preparation. However, slightly lower scores of **76.47%** were noted in areas related to entrepreneurial skills and program organization, indicating room for improvement in supporting innovation and ensuring optimal credit allocation. Overall, the curriculum is well-received by employers, with a solid structure and industry relevance, complemented by targeted opportunities for refinement.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

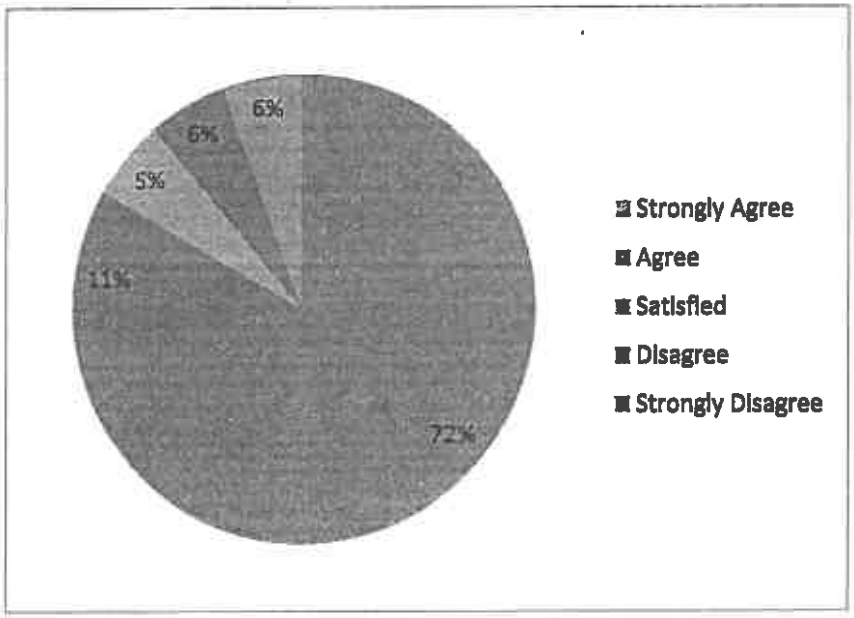
Sr. No.	Suggestions	Action Taken	Outcome
1	Enhance industry partnerships for practical exposure in agriculture and environmental sciences.	Strengthened collaborations with local farms, environmental organizations, and governmental bodies for internships and field-based projects.	Students gained direct industry experience, improving their practical skills and understanding of real-world agricultural and environmental issues.
2	Focus on integrating advanced technology into the curriculum, particularly in sustainable farming and environmental management.	Introduced courses on precision agriculture, drone technology for crop monitoring, and GIS (Geographic Information Systems) for environmental management.	Students developed proficiency in cutting-edge technologies, making them more competitive in modern agricultural and environmental careers.
3	Foster a deeper understanding of environmental policies and regulations to prepare students for roles in environmental protection.	Added modules on environmental laws, sustainability practices, and international environmental protocols.	Students were better equipped to work in policy-making, conservation, and regulatory roles within environmental organizations.
4	Promote interdisciplinary learning by encouraging cross-collaboration with other departments such as ecology, biotechnology, and resource management.	Organized joint projects and workshops with the School of Biotechnology and other departments to work on integrated environmental and agricultural solutions.	Students experienced a more holistic learning approach, gaining insights into how agriculture and environmental sciences intersect with other fields.

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Analysis of Peer Academicians' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The syllabus of the courses are proper in relation to the competencies expected out of the programme.

The syllabus of the courses are proper in relation to the competencies expected out of the programme.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	.11.11	5.55	5.55	5.55

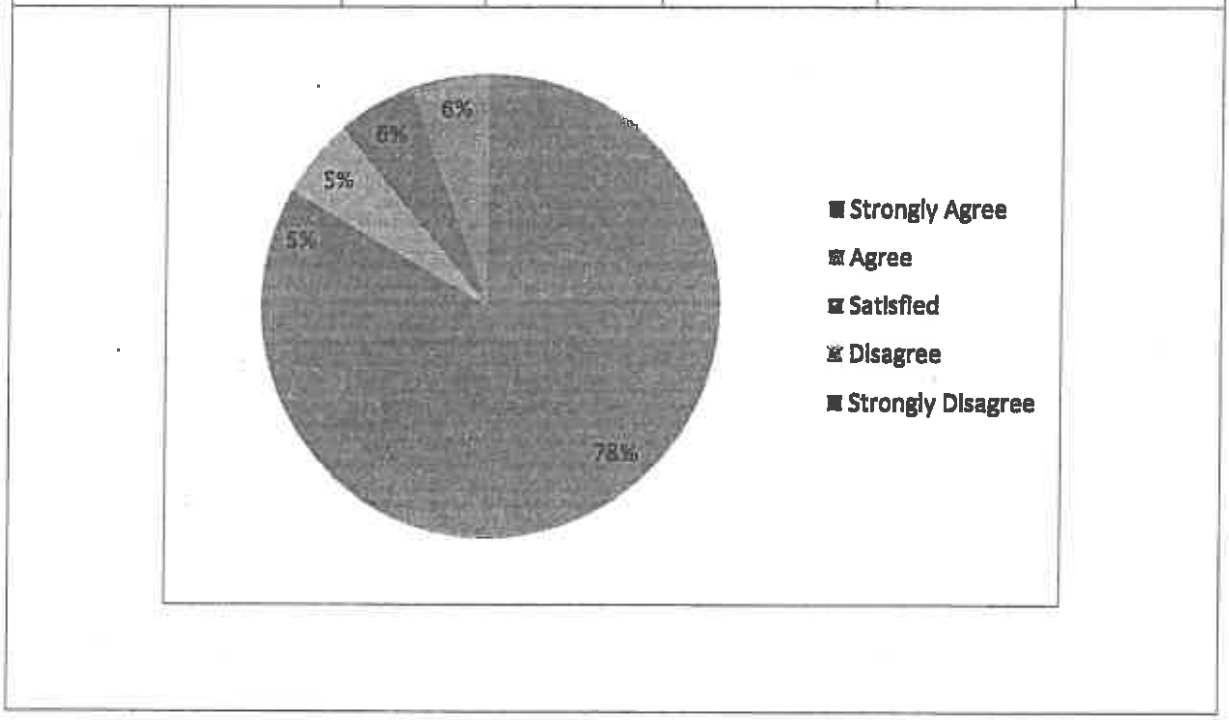


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Q.2 The sequence and overall organization of the courses is proper in the curriculum.

The sequence and overall organization of the courses is proper in the curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.77	5.55	5.55	5.55	5.55

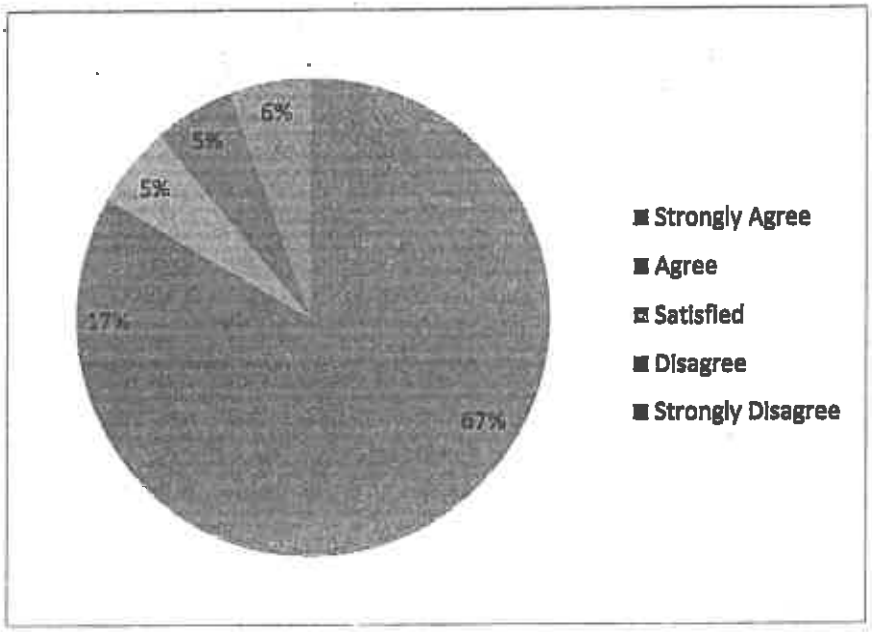


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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55

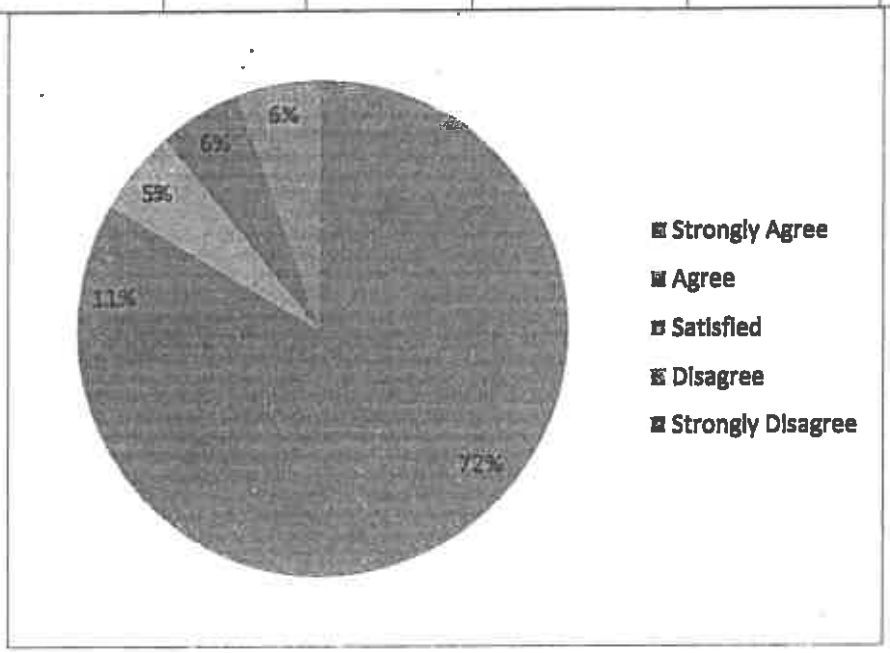


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Q.4 Extra care has been taken for extra learning or self-learning while designing the courses.

Extra care has been taken for extra learning or self-learning while designing the courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	11.11	5.55	5.55	5.55

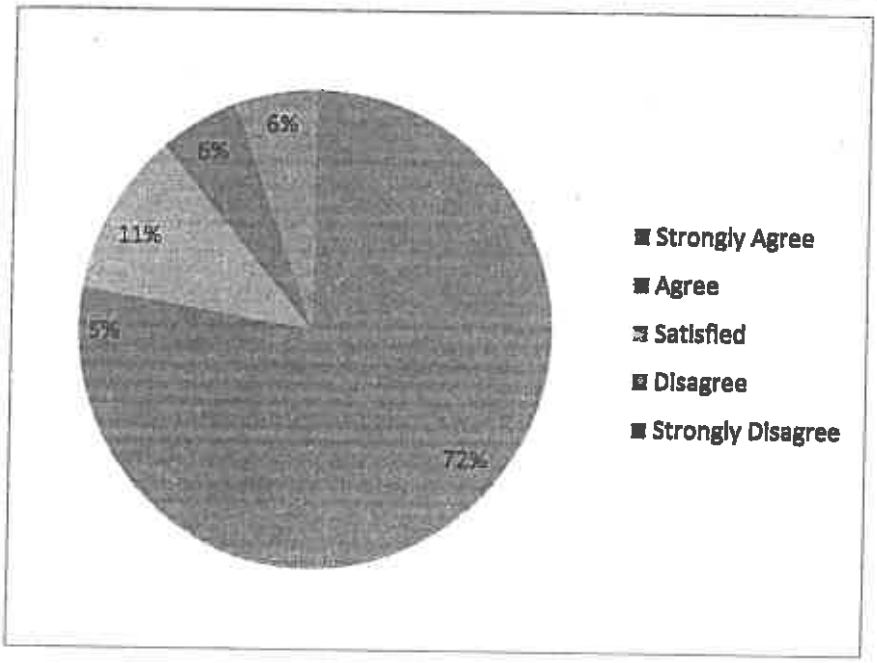


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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55

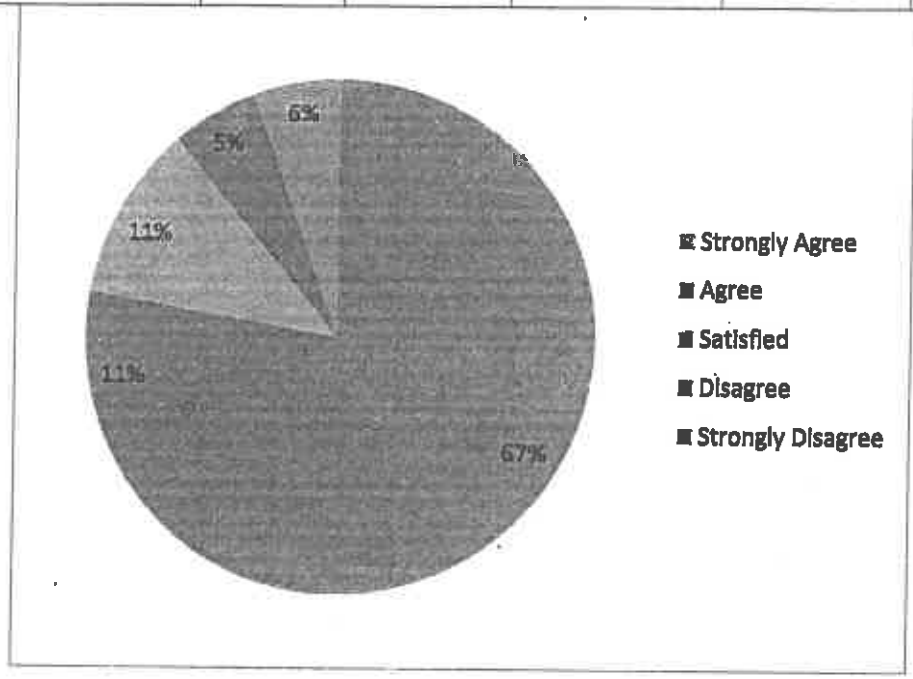


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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	11.11	11.11	5.55	5.55

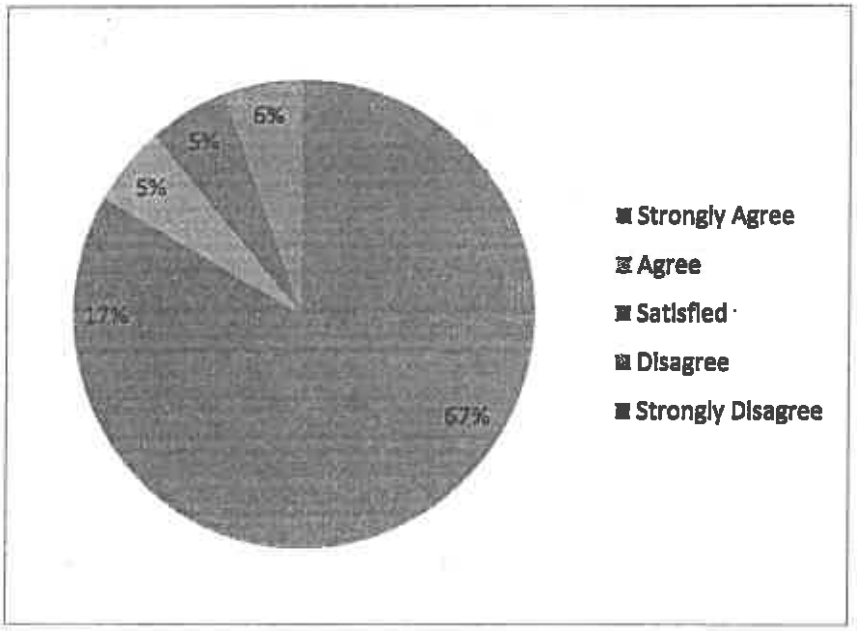


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Q.7 The curriculum has focus on personality development by presence of courses on human values and professional ethics

The curriculum has focus on personality development by presence of courses on human values and professional ethics	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	66.66	16.66	5.55	5.55	5.55

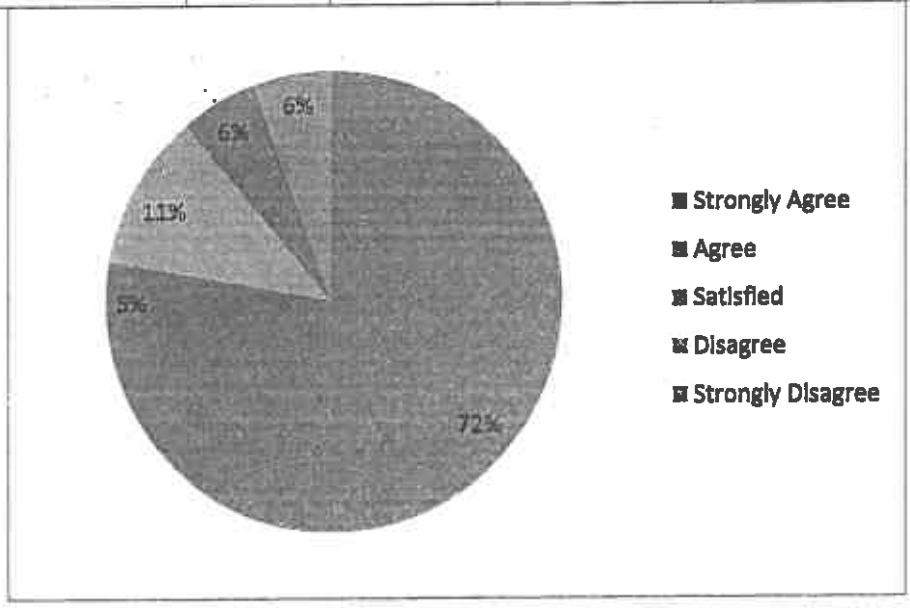


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Q.8 The curriculum is well organized and balanced for the programme with proper credit allocation.

The curriculum is well organized and balanced for the programme with proper credit allocation.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	72.22	5.55	11.11	5.55	5.55

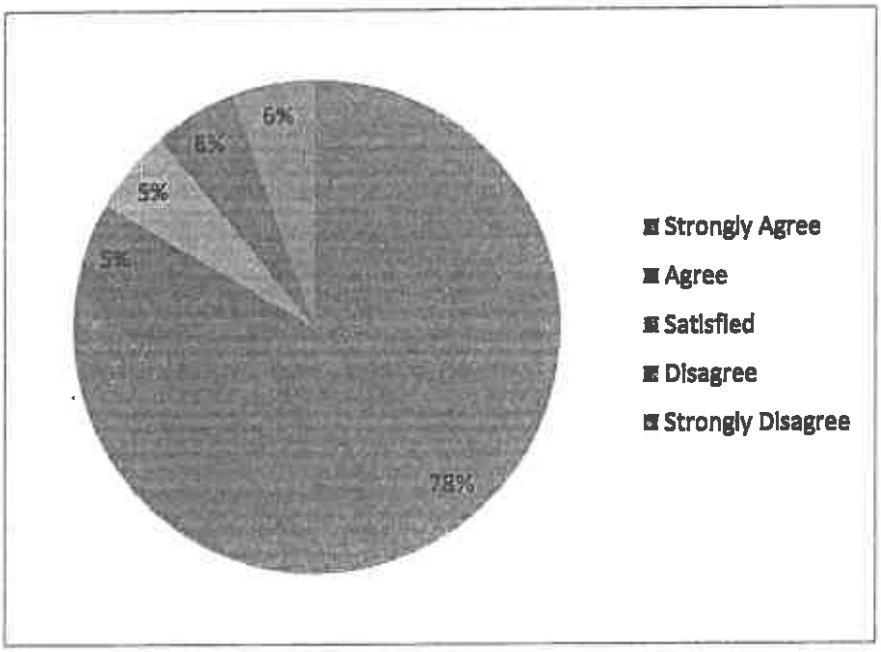


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Q.9 The courses have adequate balance between theory and application for a student's holistic development.

The courses have adequate balance between theory and application for a student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	77.77	5.55	5.55	5.55	5.55



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School of Agriculture and Environmental Science(18)						
Total no. of Peer Academicians: 18		Strongly Agree	Agree	Satisfied	Disagree	Strongly Disagree
The syllabus of the courses are proper in relation to the competencies expected out of the programme.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The sequence and overall organization of the courses is proper in the curriculum	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
Extra care has been taken for extra learning or self-learning while designing the courses.	No. of Academicians	13.00	2.00	1.00	1.00	1.00
	Percentage	72.22	11.11	5.55	5.55	5.55
The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The curriculum provides ample knowledge for increased employability	No. of Academicians	12.00	2.00	2.00	1.00	1.00
	Percentage	66.66	11.11	11.11	5.55	5.55

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and to promote students for higher education.						
The curriculum has focus on personality development by presence of courses on human values and professional ethics.	No. of Academicians	12.00	3.00	1.00	1.00	1.00
	Percentage	66.66	16.66	5.55	5.55	5.55
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Academicians	13.00	1.00	2.00	1.00	1.00
	Percentage	72.22	5.55	11.11	5.55	5.55
The courses have adequate balance between theory and application for a student's holistic development.	No. of Academicians	14.00	1.00	1.00	1.00	1.00
	Percentage	77.77	5.55	5.55	5.55	5.55

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Analysis of Feedback:

The peer feedback on the curriculum reveals a generally positive assessment, with the majority of peer academicians agreeing that the program is well-aligned with its objectives. A total of 18 academicians participated in the evaluation. A strong 72.22% of respondents strongly agreed that the syllabus of the courses is appropriate in relation to the competencies expected from the program. Similarly, 77.77% felt the sequence and overall organization of the courses were well-structured. However, there is some room for improvement in the areas of multidisciplinary knowledge and elective courses, with only 66.66% strongly agreeing that the curriculum offers adequate scope for these. Self-learning is well-supported, with 72.22% of peers strongly agreeing on the inclusion of such opportunities. Additionally, 72.22% of respondents strongly agreed that the curriculum supports the development of entrepreneurial skills and industry readiness, though there is room for enhancement in this area, as 11.11% were neutral or dissatisfied. On personality development, 66.66% strongly agreed that the curriculum includes a focus on human values and professional ethics. The overall organization and balance of the curriculum, including credit allocation, were also viewed positively, with 72.22% in strong agreement. Finally, the curriculum's balance between theory and application for holistic student development was highly regarded by 77.77% of respondents. This feedback highlights a solid foundation in the curriculum's structure, but also indicates areas for further refinement, particularly in expanding multidisciplinary opportunities and enhancing industry-readiness elements.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr.No	Suggestions	Action Taken	Outcome
1	The curriculum should offer more scope for multidisciplinary knowledge and electives.	Increased the number of electives and incorporated more cross-disciplinary courses into the curriculum.	Greater flexibility for students to explore interdisciplinary learning, enhancing their academic experience.
2	Further improvement in the entrepreneurial skills and industry readiness focus.	Introduced additional workshops, seminars, and collaborations with industry leaders to enhance the entrepreneurial and industry-relevant skill set.	Improved student exposure to real-world industry practices, fostering entrepreneurial thinking and career readiness.
3	Emphasize personality development through more focused courses on human values and professional ethics.	Added additional modules and practical sessions on ethics, human values, and leadership skills within the core curriculum.	Positive feedback from students regarding the importance of these modules in shaping professional conduct and values.
4	Strengthen the integration of self-learning opportunities within the curriculum.	Revised course materials and included more open-ended assignments, research tasks, and independent projects to foster self-learning.	Increased student engagement in self-directed learning, allowing for deeper exploration of subject matter.

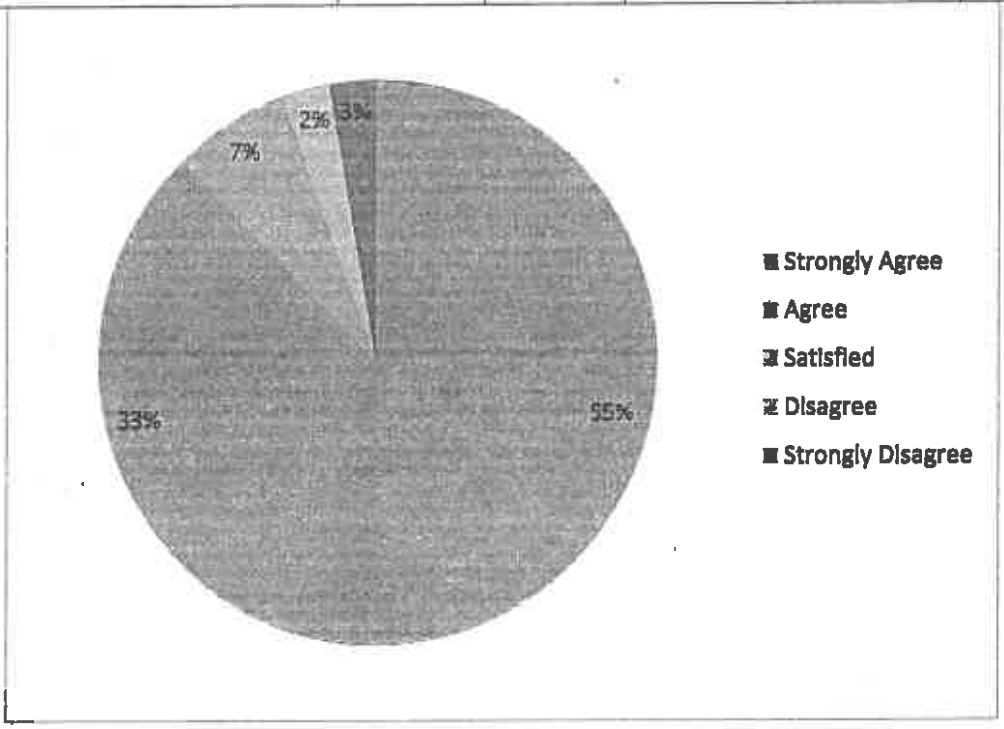
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Analysis of Students' Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1. Whether the curriculum has depth of the subjects and clears the concept?

Curriculum has depth of the subjects and clears the concept	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55	32.72727	6.818182	2.727273	2.727273

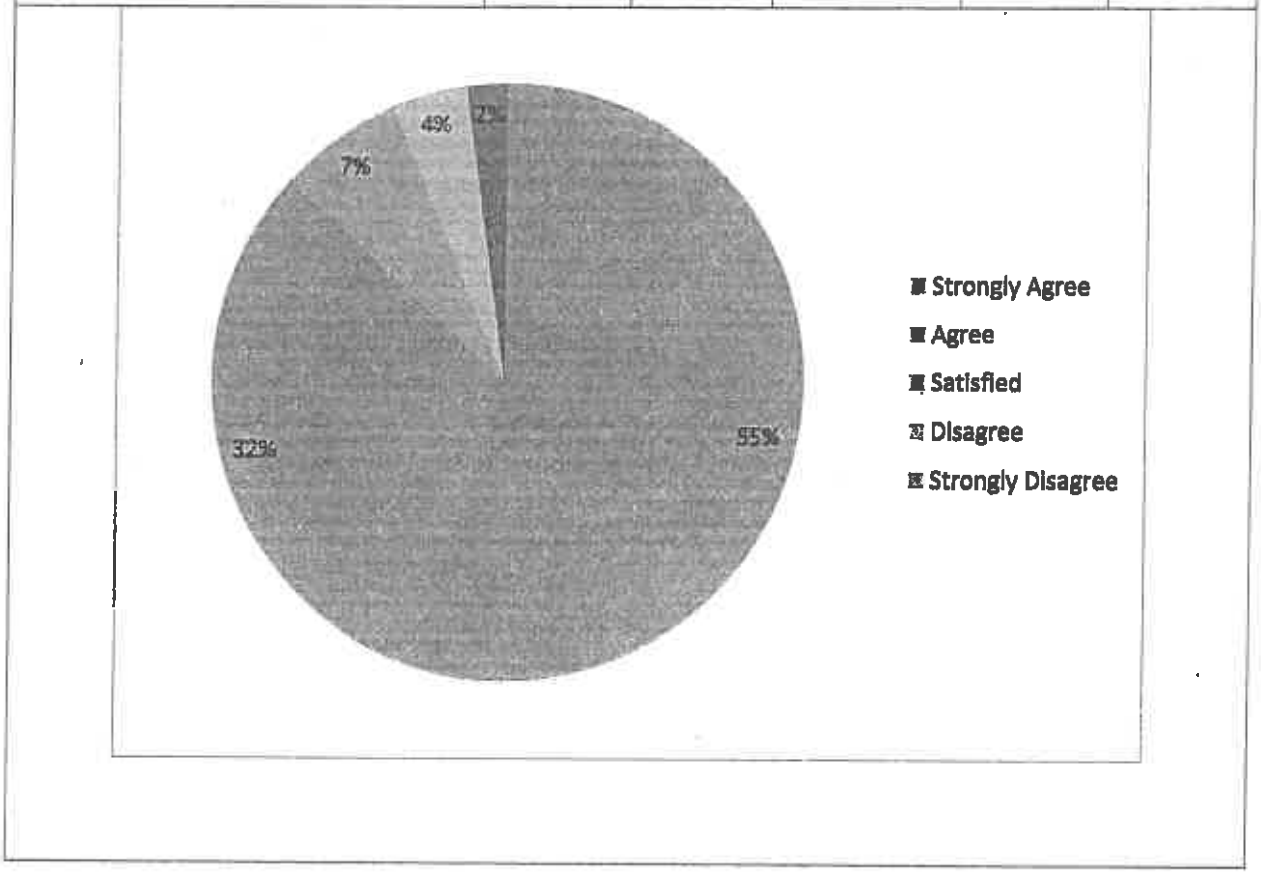


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Q.2. How do you rate the course outcomes and relevance to the course content?

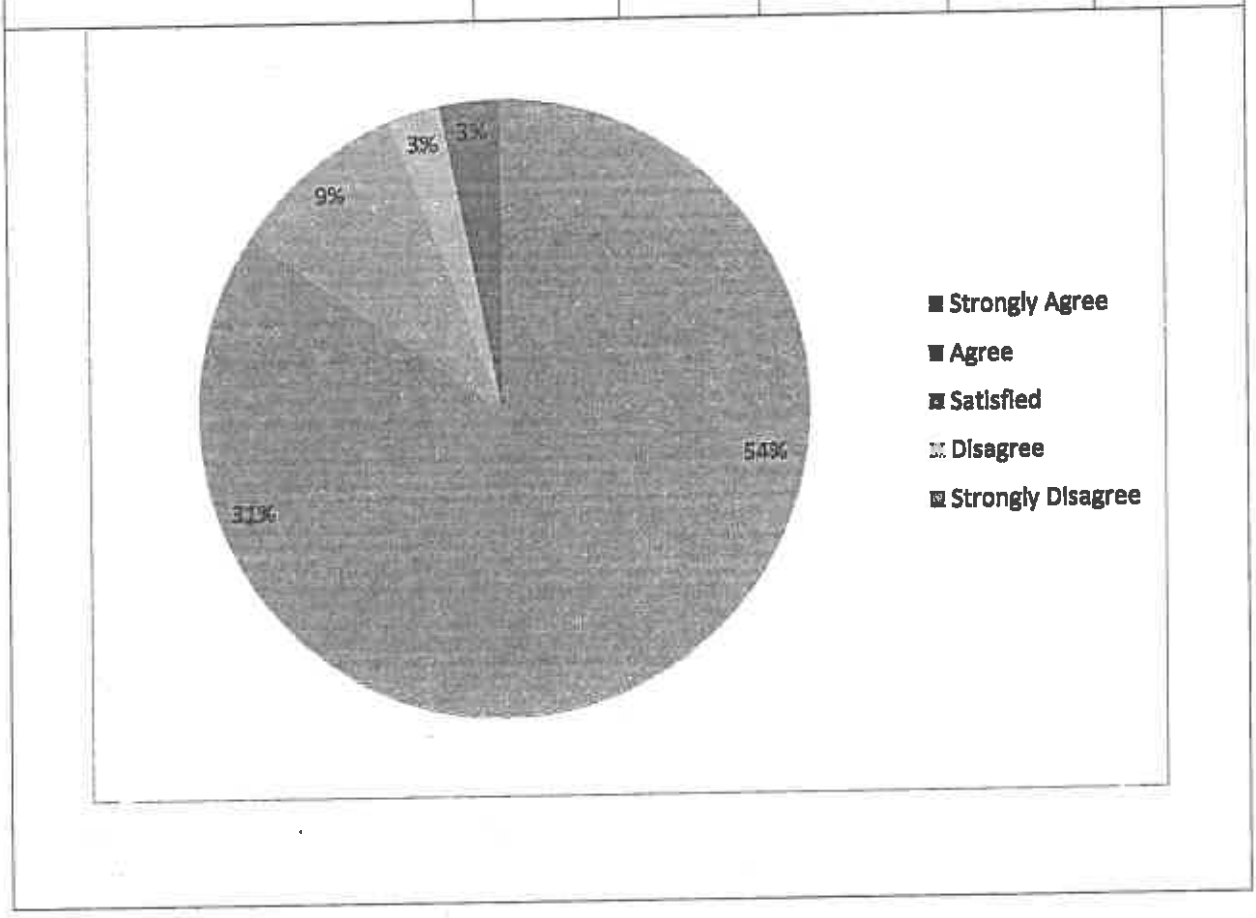
Rate the course outcomes and relevance to the course content	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	55	31.81818	6.818182	4.090909	2.272727



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Q.3. How do you rate the sequence of units in the courses?

Rate the sequence of units in the courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.63636	30.90909	9.545455	2.727273	3.181818

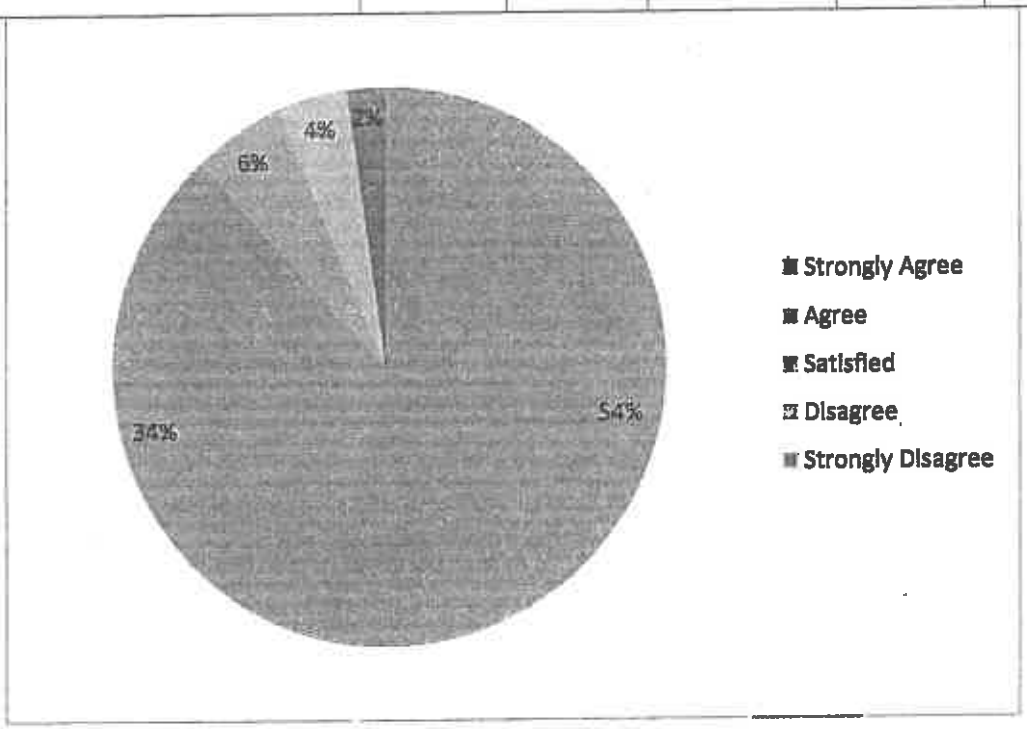


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Q.4. How do you rate the credits allotted to individual courses?

Rate the credits allotted to individual courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	54.09091	34.09091	5.454545	4.090909	2.272727

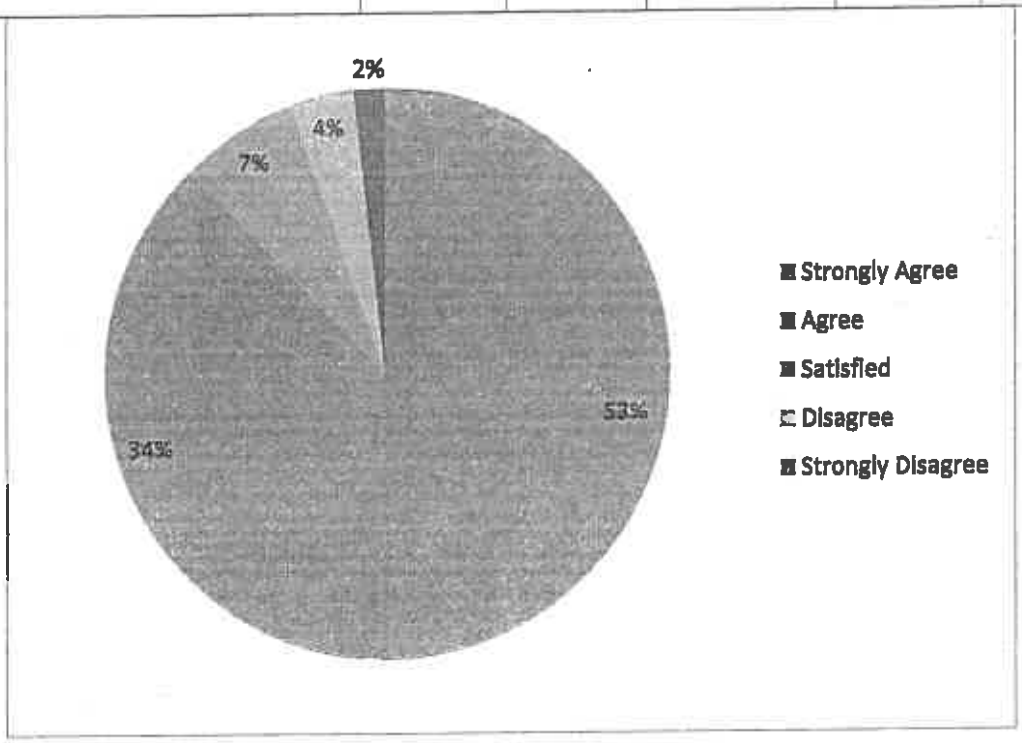


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Q.5. Does the curriculum focus on employability/career orientation?

Curriculum focus on employability/career orientation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	53.18182	34.54545	6.818182	3.636364	1.818182

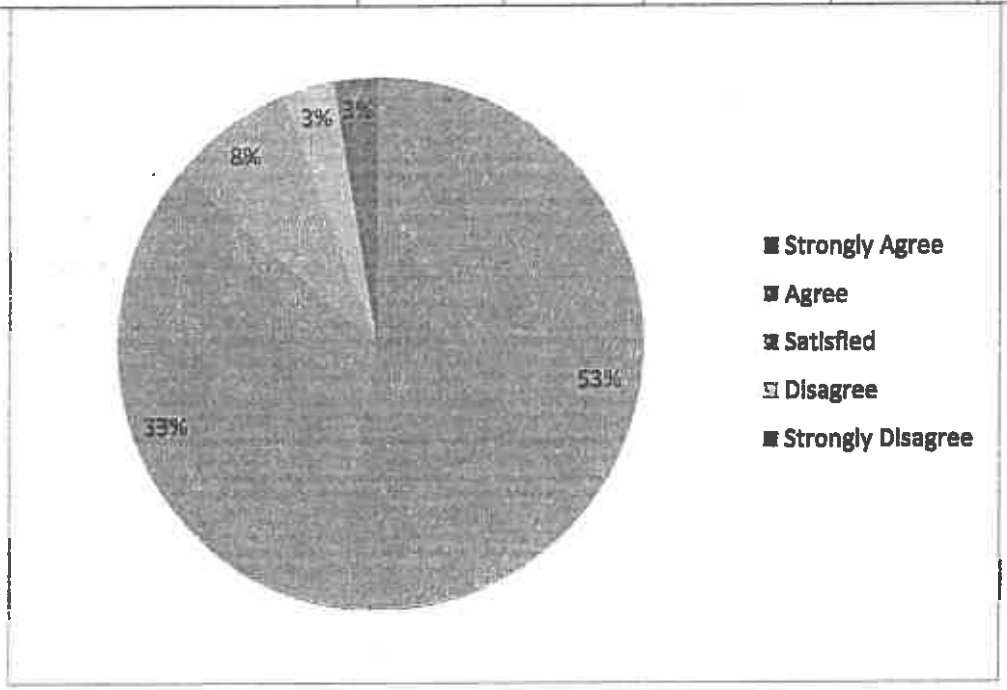


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Q.6. Does the curriculum focus on skill development/entrepreneurship?

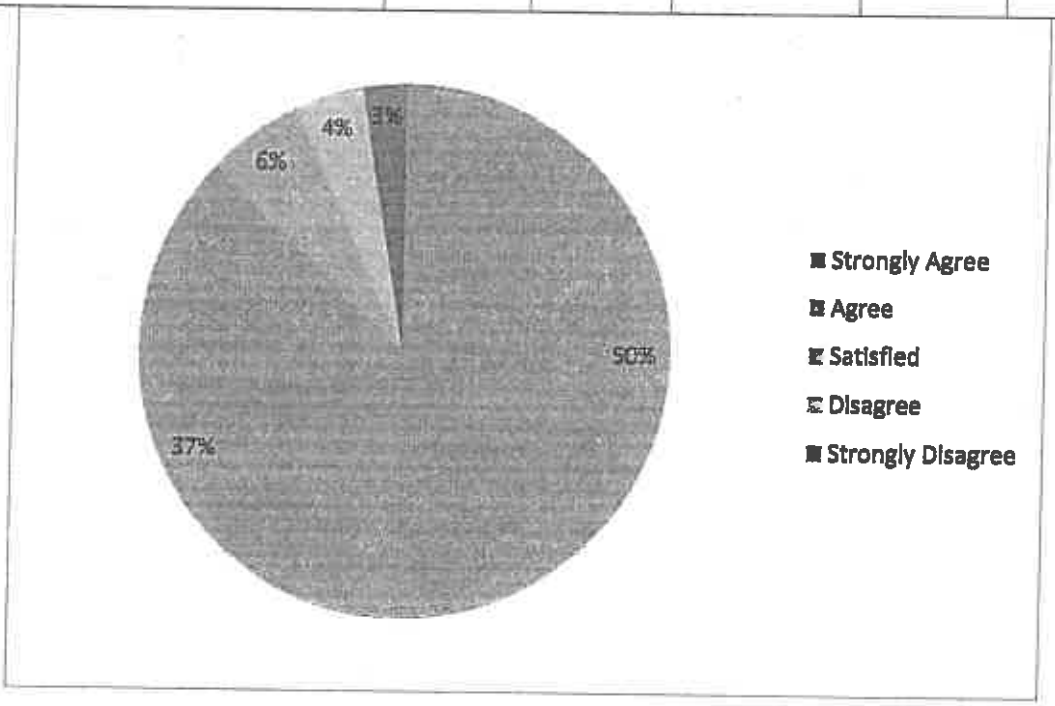
Curriculum focus on skill development/entrepreneurship	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	52.72727	33.63636	7.727273	3.181818	2.727273



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Q.7. Does the curriculum have satisfactory number of elective courses?

Curriculum have satisfactory number of elective courses	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	37.27273	5.909091	4.090909	2.727273

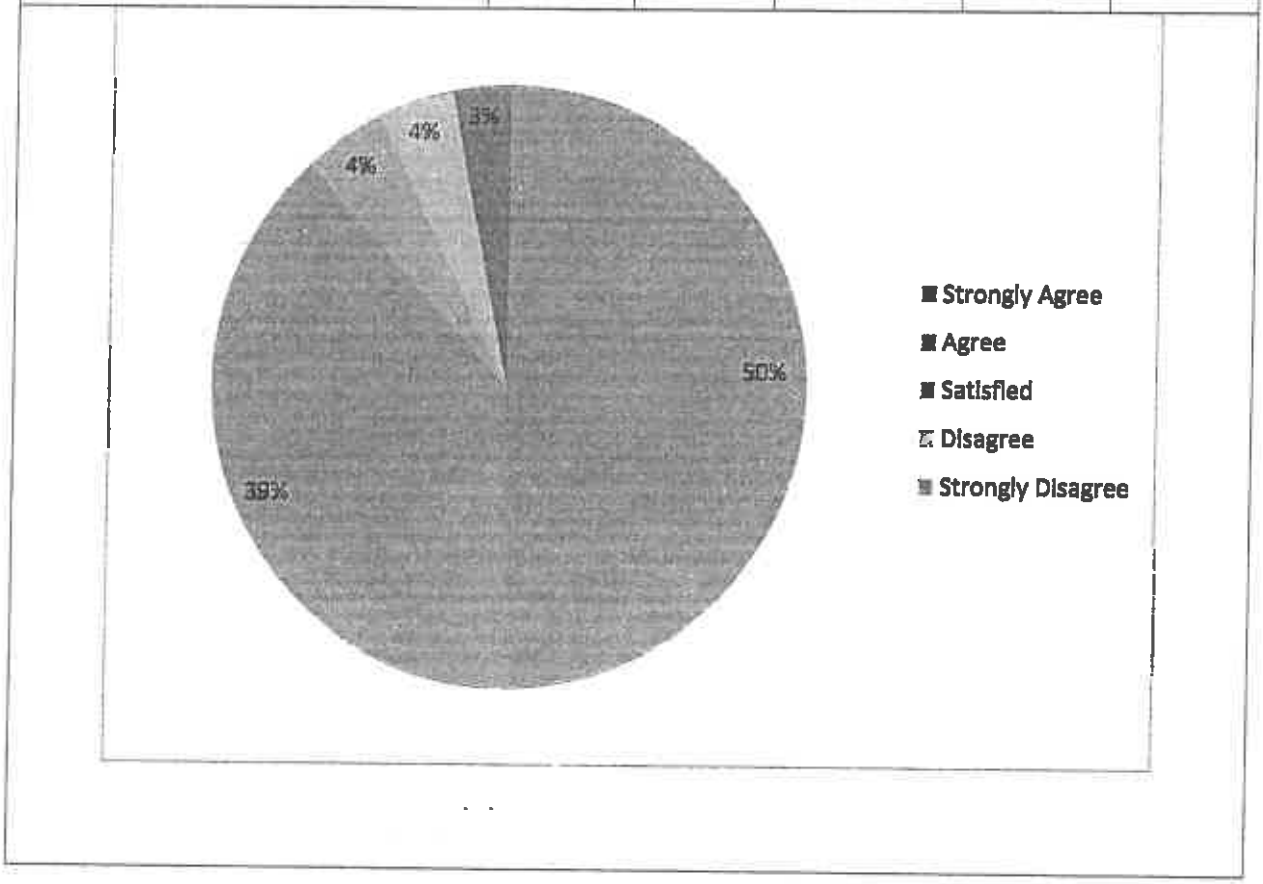


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Q.8. Does the curriculum focus on life skill or help in value addition?

Curriculum focus on life skill or help in value addition	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	49.54545	38.63636	4.545455	4.090909	3.181818

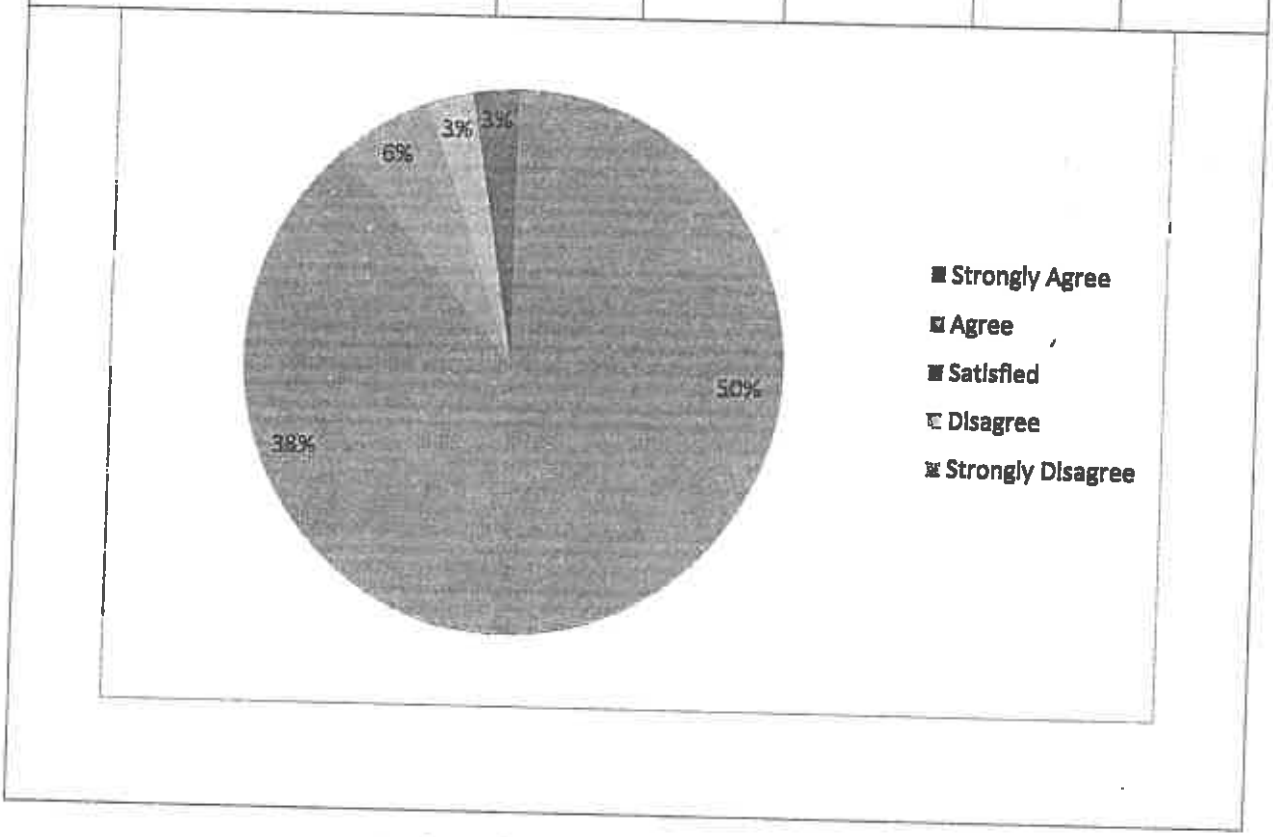


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Q.9. Do the theory subjects are properly linked to the laboratories/provide real-life exposure?

Theory subjects are properly linked to the laboratories/provide real-life exposure	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.45455	38.18182	5.909091	2.727273	2.727273

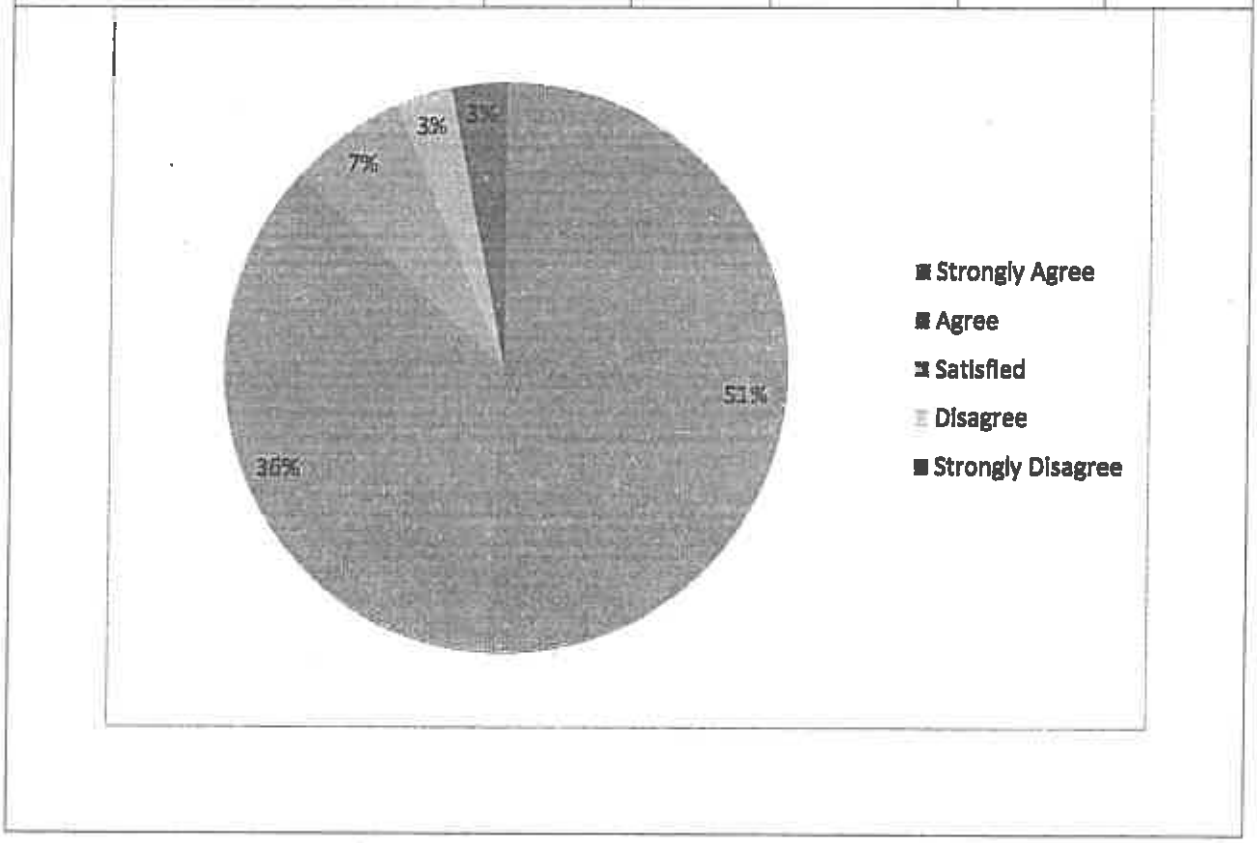


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Q.10. Does the curriculum provide multidisciplinary knowledge/information to a student?

Curriculum provide multidisciplinary knowledge/information to a student	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50.90909	35.90909	6.818182	3.181818	3.181818



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School of Agriculture & Environment Sciences (220)						
Question	Details	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Whether the curriculum has depth of the subjects and clears the concept?	No of Students	121	72	15	6	6
	Percentage	55	32.72727	6.818182	2.727273	2.727273
How do you rate the course outcomes and relevance to the course content?	No of Students	121	70	15	9	5
	Percentage	55	31.81818	6.818182	4.090909	2.272727
How do you rate the sequence of units in the courses?	No of Students	118	68	21	6	7
	Percentage	53.63636	30.90909	9.545455	2.727273	3.181818
How do you rate the credits allotted to individual courses?	No of Students	119	75	12	9	5
	Percentage	54.09091	34.09091	5.454545	4.090909	2.272727
Does the curriculum focus on employability/career orientation?	No of Students	117	76	15	8	4
	Percentage	53.18182	34.54545	6.818182	3.636364	1.818182
Does the curriculum focus on skill development/entrepreneurship?	No of Students	116	74	17	7	6
	Percentage	52.72727	33.63636	7.727273	3.181818	2.727273
Does the curriculum have satisfactory number of elective courses?	No of Students	110	82	13	9	6
	Percentage	50	37.27273	5.909091	4.090909	2.727273
Does the curriculum focus on life skill or help in value addition?	No of Students	109	85	10	9	7
	Percentage	49.54545	38.63636	4.545455	4.090909	3.181818
Do the theory subjects are properly linked to the laboratories/provide real-life exposure?	No of Students	111	84	13	6	6
	Percentage	50.45455	38.18182	5.909091	2.727273	2.727273
Does the curriculum provide multidisciplinary knowledge/information to a student?	No of Students	112	79	15	7	7
	Percentage	50.90909	35.90909	6.818182	3.181818	3.181818

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Analysis of Feedback:

Based on the feedback from students of the School of Agriculture & Environment Sciences (220 respondents), the overall perception of the curriculum is largely positive, with a significant majority indicating satisfaction across key aspects. A majority of students *strongly agree* that the curriculum has sufficient depth and effectively clarifies subject concepts (55%), and they also find the course outcomes to be relevant (55%). Similarly, more than half of the respondents believe the sequence of units (53.6%), credit allocation (54.1%), and the focus on employability (53.2%) are appropriate. A commendable proportion of students also appreciate the emphasis on skill development and entrepreneurship (52.7%), the availability of elective courses (50%), and the curriculum's relevance to life skills and value addition (49.5%). Additionally, many students recognize a strong linkage between theoretical content and practical/lab work (50.5%), and value the multidisciplinary knowledge provided (50.9%). These figures suggest that while there is room for improvement—particularly in increasing the proportion of students who rate aspects as more than just "satisfactory"—the curriculum is generally well-structured, conceptually sound, and oriented toward both academic and career readiness.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action Taken	Outcome
1	Increase practical and real-life exposure through field visits and hands-on labs	Enhanced integration of lab components and organized regular field/industry visits	Improved student engagement and better understanding of theoretical concepts in real-world contexts
2	Introduce more elective and multidisciplinary courses	Curriculum revised to include new electives across disciplines such as agribusiness and environmental tech	Higher student satisfaction with course flexibility and interdisciplinary exposure
3	Strengthen skill development and entrepreneurship modules	Workshops, guest lectures, and short-term certification programs introduced in collaboration with experts	Enhanced student readiness for self-employment and job opportunities
4	Improve sequencing and logical flow of units across semesters	Academic council reviewed and restructured course sequencing to ensure progressive learning	Better conceptual clarity and continuity in learning outcomes

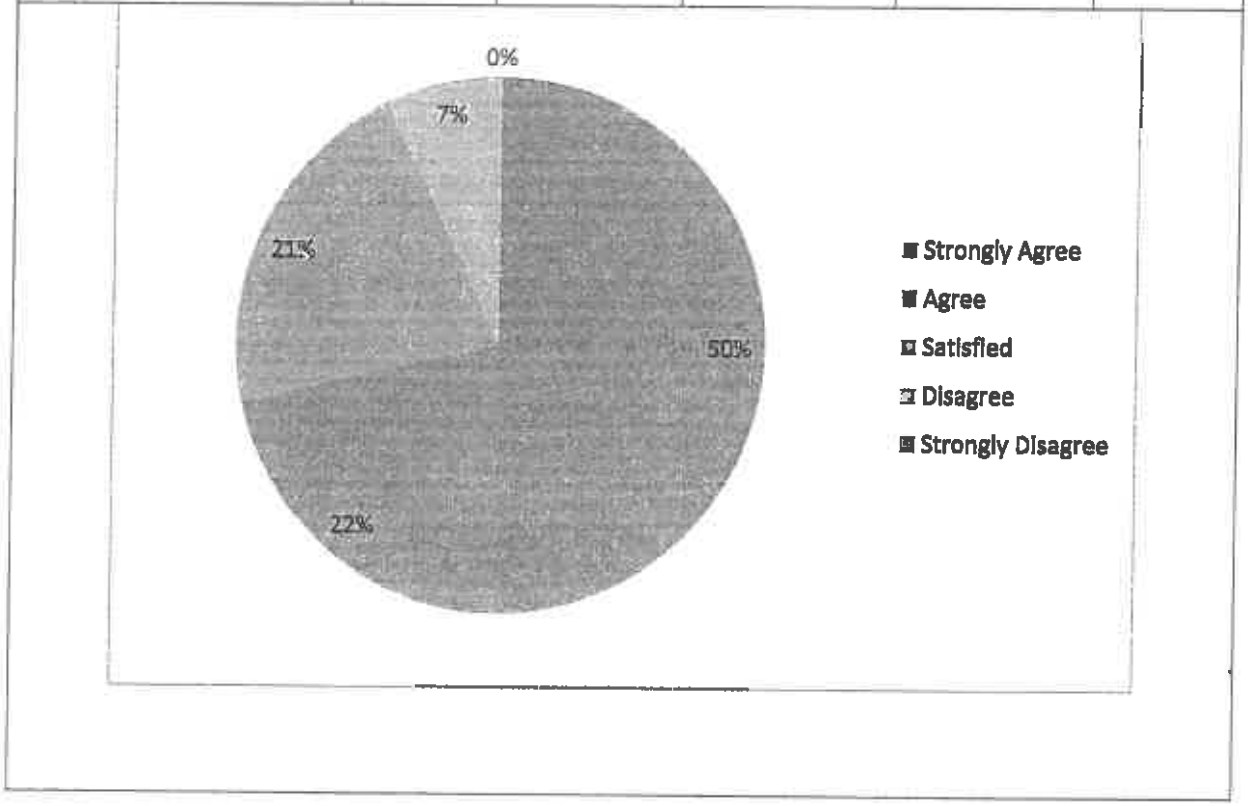
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Analysis of Teacher's Feedback of School of Agriculture and Environmental Sciences through Table and Pie Chart

Q.1 The curriculum is well organized and balanced for the programme with proper credit allocation.

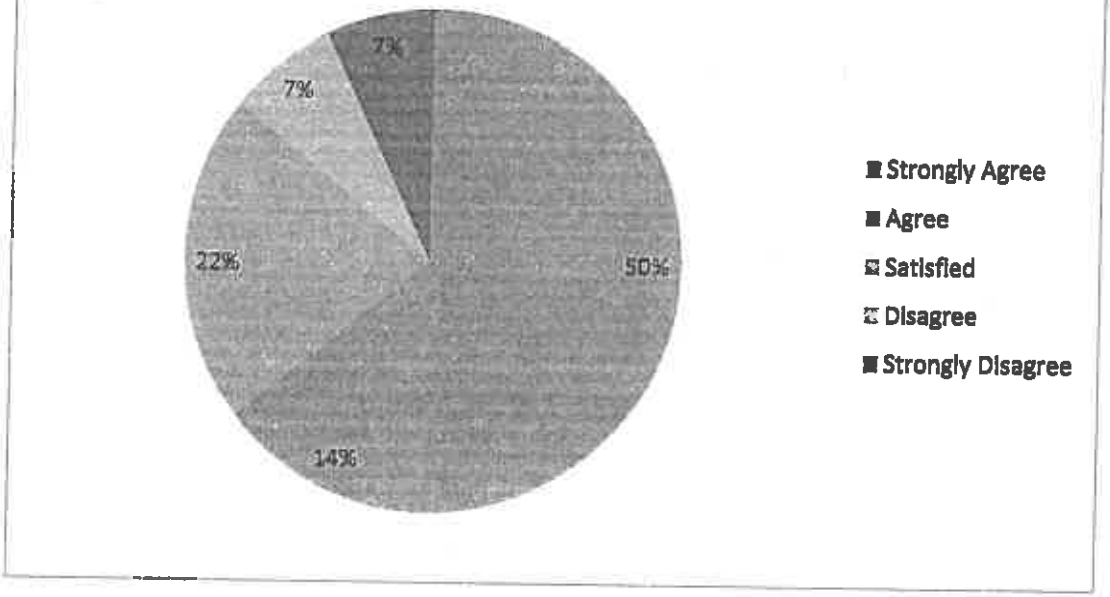
The curriculum is well organized and balanced for the programme with proper credit allocation	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	7.142857143	0



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Q.2 The courses have adequate balance between theory and application for student's holistic development.

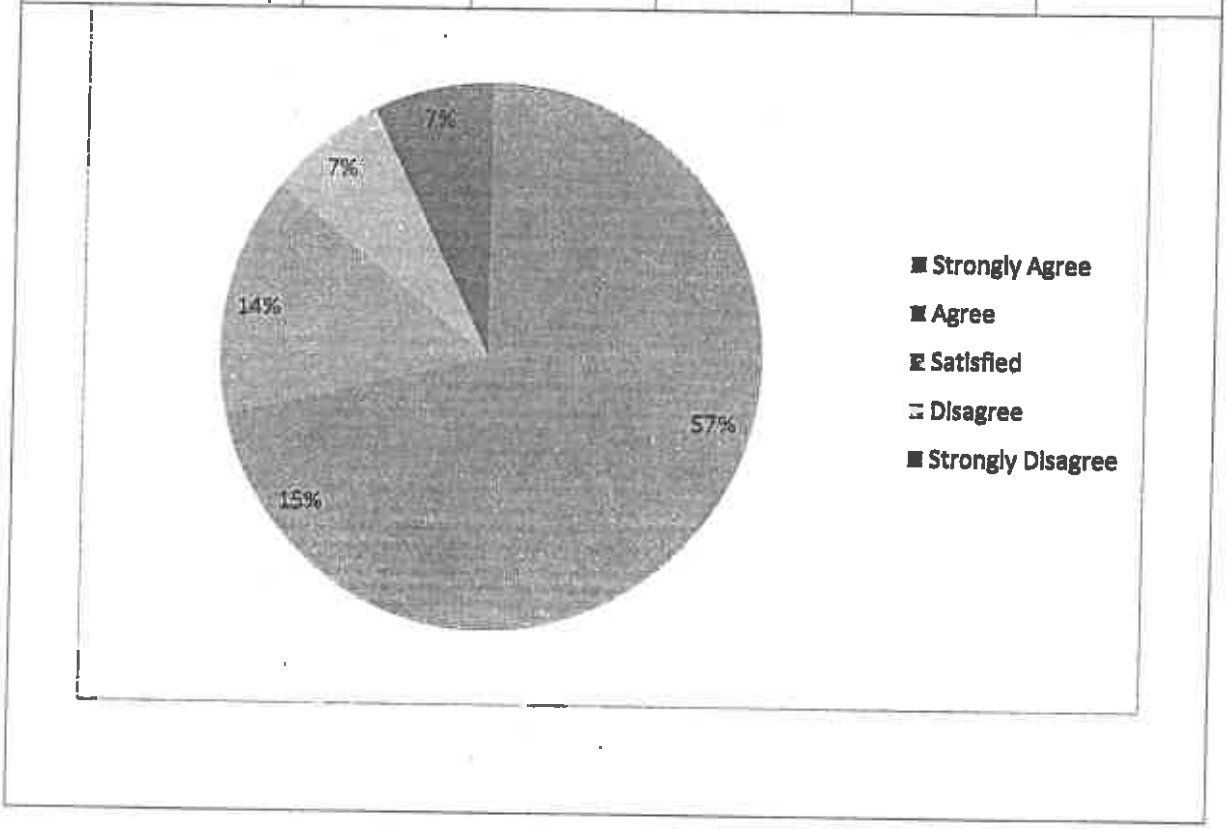
The courses have adequate balance between theory and application for student's holistic development.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	14.28571429	21.42857143	7.142857143	7.142857143



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Q.3 The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.

The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.1428571	14.28571429	14.28571429	7.142857143	7.142857143

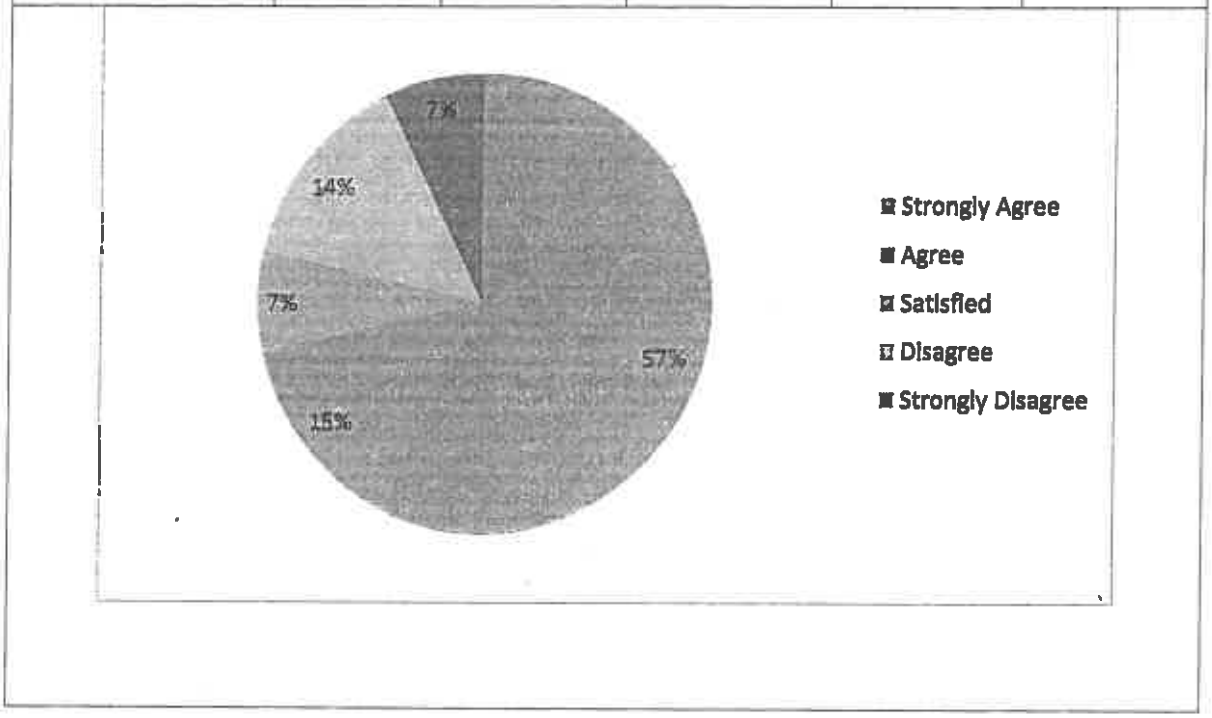


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Q.4 The curriculum has focus on personality development by presence of courses on human values and professional ethics

The curriculum has focus on personality development by presence of courses on human values and professional ethics.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	57.1428571	14.28571429	7.142857143	14.28571429	7.142857143

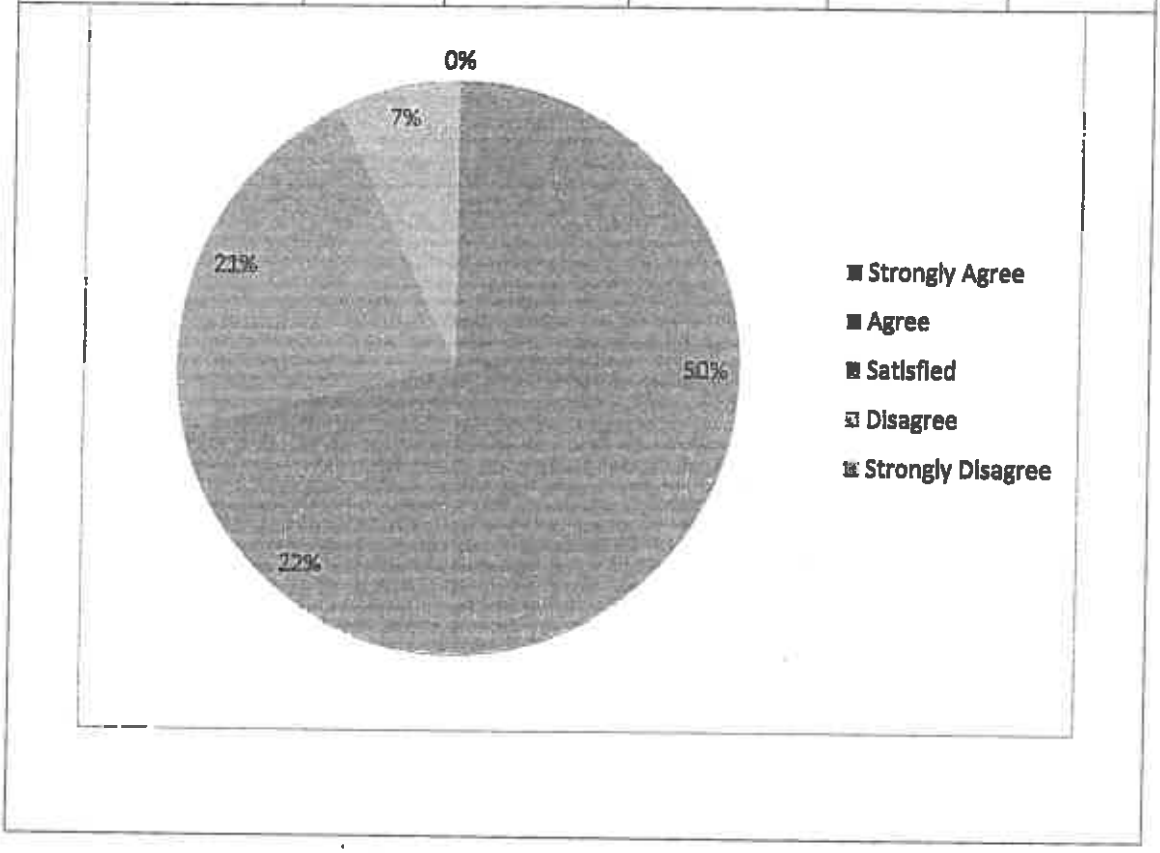


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Q.5 The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.

The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	7.142857143	0

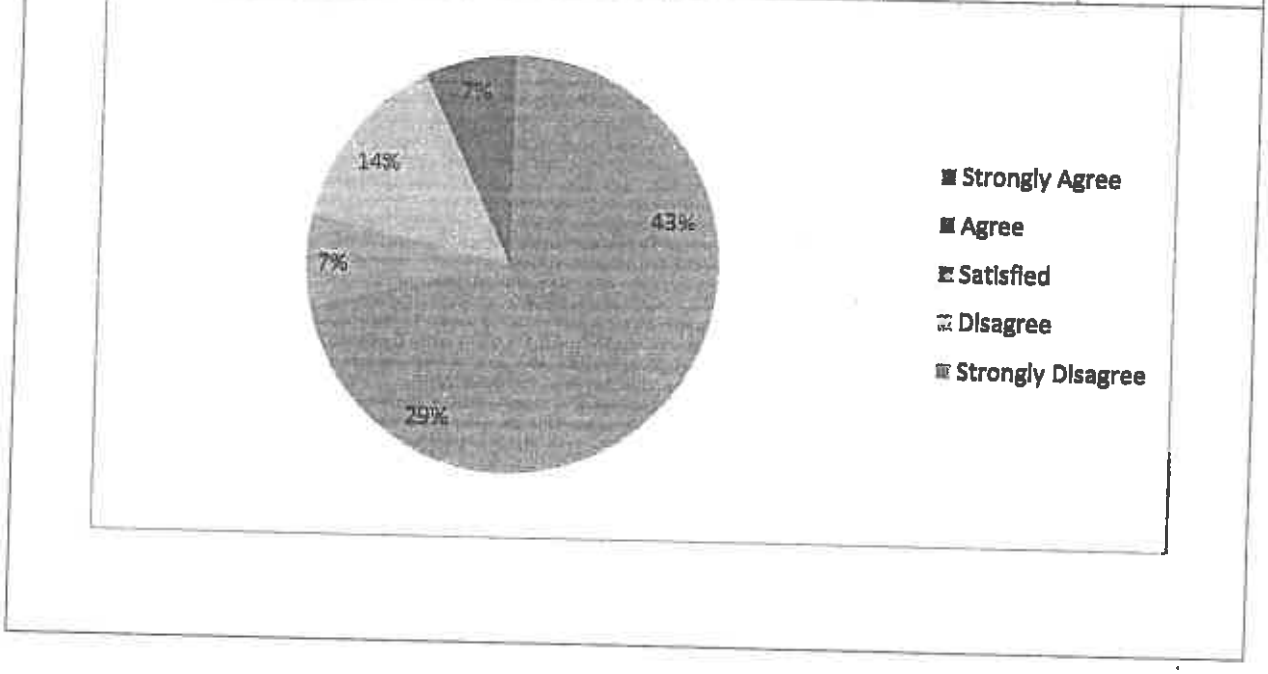


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Q.6 The curriculum provides ample knowledge for increased employability and to promote students for higher education.

The curriculum provides ample knowledge for increased employability and to promote students for higher education.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	42.8571429	28.57142857	7.142857143	14.28571429	7.142857143

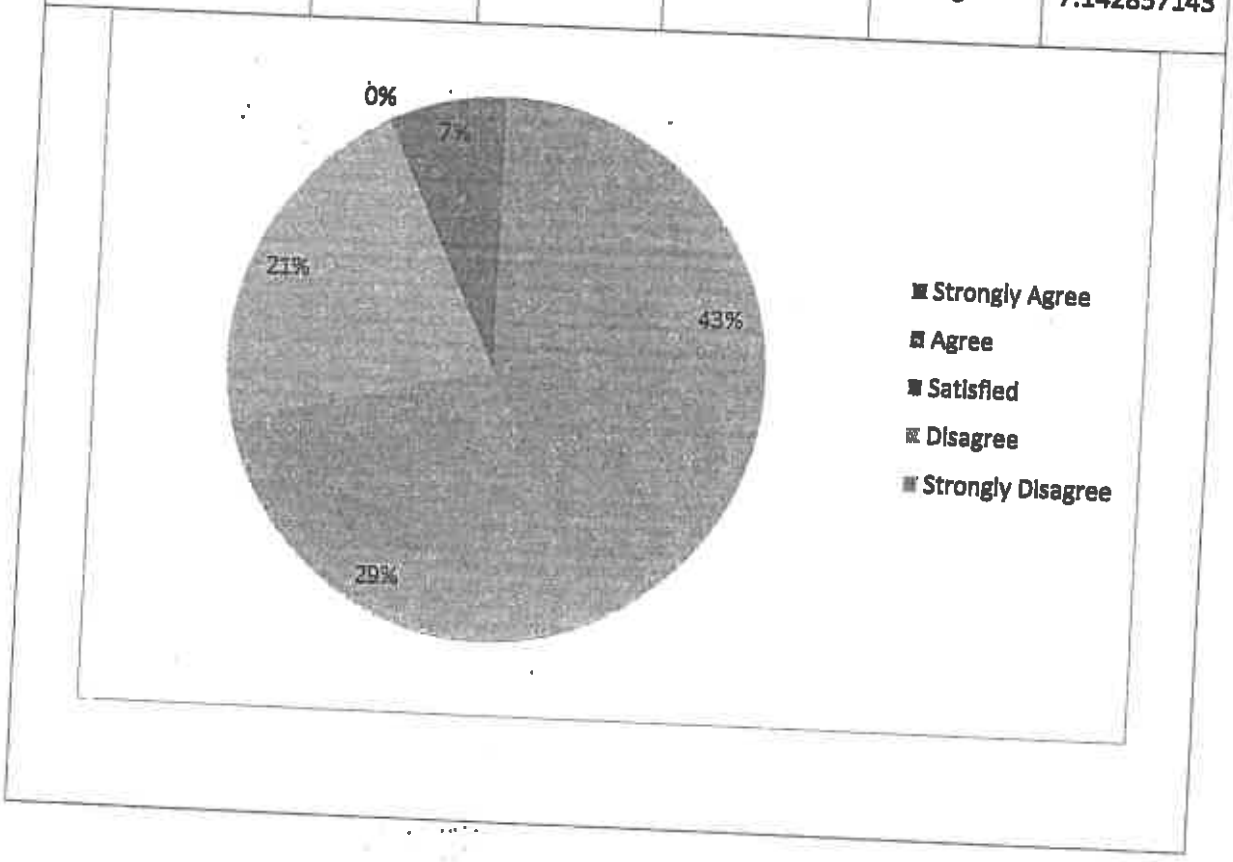


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Q.7 The curriculum helps in enhancing problem solving capability related to local/global societal issues.

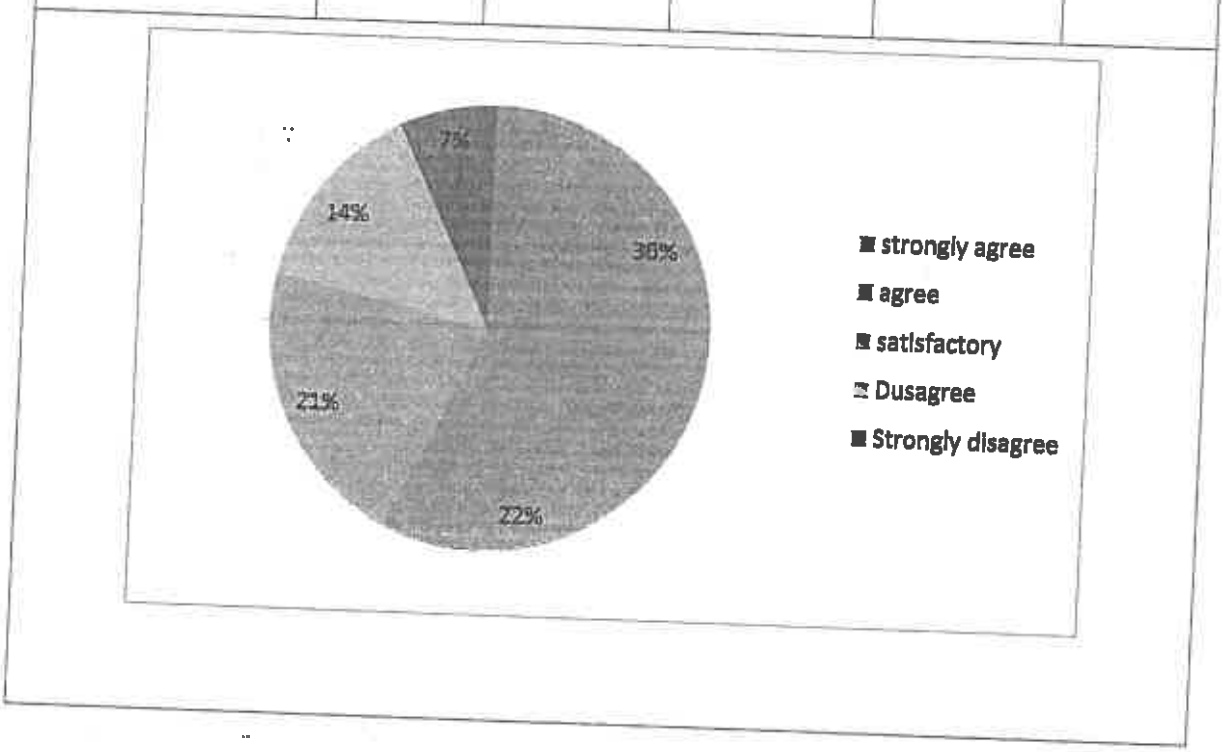
The curriculum helps in enhancing problem solving capability related to local/global societal issues.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	42.8571429	28.57142857	21.42857143	0	7.142857143



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Q.8 Adequate freedom is given to offer opinion on design & development of curriculum.

Adequate freedom is given to offer opinion on design & development of curriculum.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	35.7142857	21.42857143	21.42857143	14.28571429	7.1428571

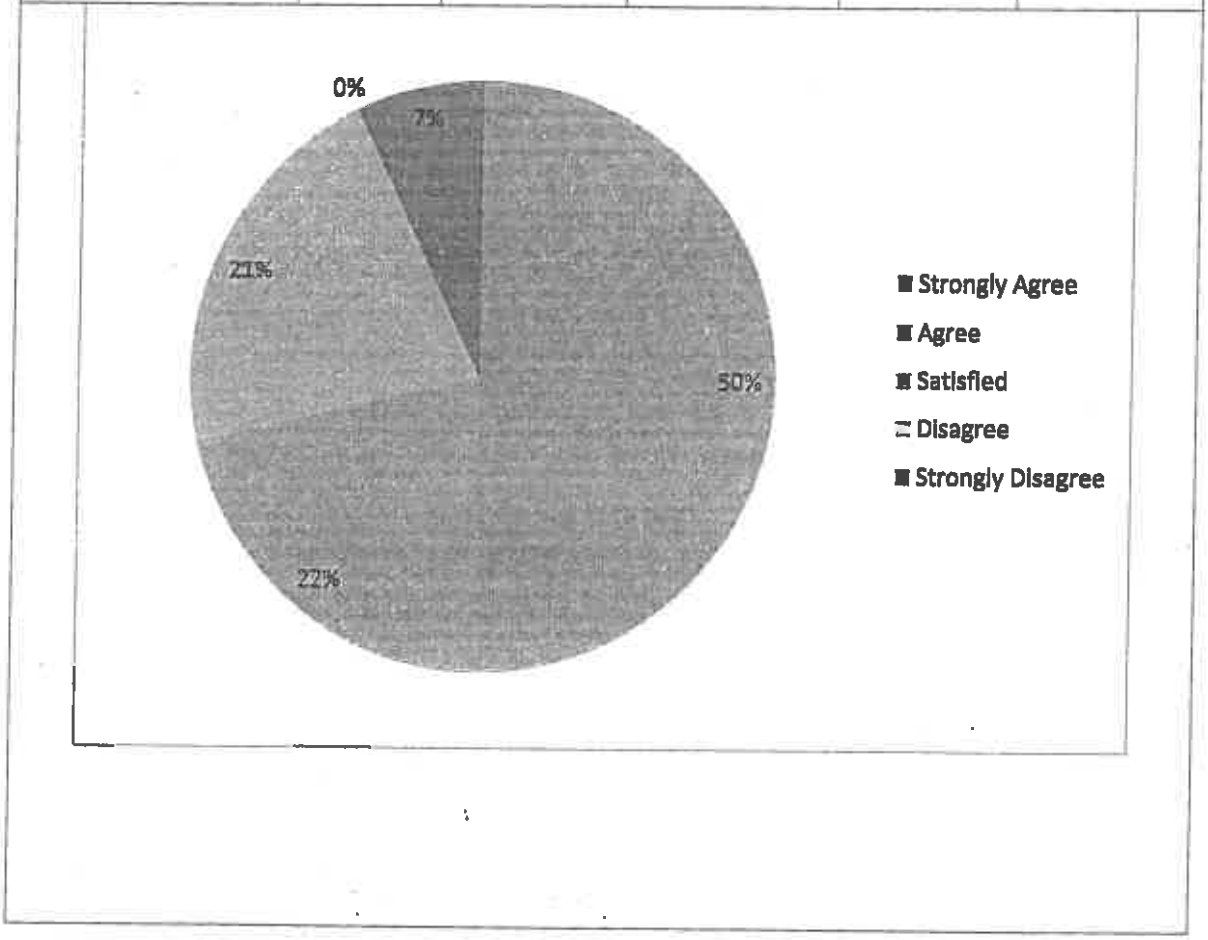


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Q.9 The existing system for curriculum revision is found to be effective.

The existing system for curriculum revision is found to be effective.	Strongly Agree	Agree	Satisfactory	Disagree	Strongly Disagree
Response (%)	50	21.42857143	21.42857143	0	7.142857143



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School of Agriculture & Environmental Sciences(14)						
Total no. of Teachers : 14		**Strongly Agree**	**Agree**	**Satisfied**	**Disagree**	**Strongly Disagree**
The curriculum is well organized and balanced for the programme with proper credit allocation.	No. of Teachers	7	3	3	1	0
	Percentage	50	21.4285714	21.4285714	7.1428571	0
The courses have adequate balance between theory and application for student's holistic development.	No. of Teachers	7	2	3	1	1
	Percentage	50	14.2857143	21.4285714	7.1428571	7.1428571
The curriculum has adequate scope for multidisciplinary knowledge and sufficient number of elective courses.	No. of Teachers	8	2	2	1	1
	Percentage	57.1428571	14.2857143	14.2857143	7.1428571	7.1428571
The curriculum has focus on personality development by presence of courses on human values and professional ethics	No. of Teachers	8	2	1	2	1
	Percentage	57.1428571	14.2857143	7.14285714	14.285714	7.1428571

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The curriculum provides enough scope for improving entrepreneurial skill as well as industry readiness.	No. of Teachers	7	3	3	1	0
	Percentage	50	21.4285714	21.4285714	7.1428571	0
The curriculum provides ample knowledge for increased employability and to promote students for higher education.	No. of Teachers	6	4	1	2	1
	Percentage	42.8571429	28.5714286	7.14285714	14.285714	7.1428571
The curriculum helps in enhancing problem solving capability related to local/global societal issues	No. of Teachers	6	4	3	0	1
	Percentage	42.8571429	28.5714286	21.4285714	0	7.1428571
Adequate freedom is given to offer opinion on design & development of curriculum.	No. of Teachers	5	3	3	2	1
	Percentage	35.7142857	21.4285714	21.4285714	14.285714	7.1428571
The existing system for curriculum revision is found to be effective.	No. of Teachers	7	3	3	0	1
	Percentage	50	21.4285714	21.4285714	0	7.1428571

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Analysis of Feedback:

The feedback from the 14 teachers in the School of Agriculture & Environmental Sciences reveals a generally positive perception of the curriculum, with some areas for further enhancement. Half of the faculty (50%) strongly agree that the curriculum is well-organized, balanced, and properly credit-allocated, with a significant portion (21.4%) agreeing. However, some faculty (21.4%) are only satisfied, indicating room for improvement. Regarding the balance between theory and application, 50% of teachers strongly agree, while a smaller portion (14.3%) agree, and 21.4% are satisfied, suggesting that while the balance is largely seen as appropriate, there is a slight opportunity to further align theory and practical learning.

The curriculum's multidisciplinary scope and the availability of elective courses are considered adequate by 57.1% of teachers, but 14.3% feel this aspect could be improved. For personality development, 57.1% of teachers appreciate the inclusion of courses on human values and professional ethics, although 7.1% are only satisfied. When it comes to entrepreneurial skills and industry readiness, 50% strongly agree, with a further 21.4% agreeing, highlighting a positive response but suggesting room for further development.

Regarding employability and higher education promotion, 42.9% of teachers believe the curriculum is effective, with 28.6% agreeing, but 7.1% are only satisfied, indicating some concern in this area. The curriculum's focus on problem-solving capabilities related to local and global societal issues is appreciated by 42.9% of teachers, while 28.6% agree, and 21.4% are satisfied.

On the topic of faculty involvement in curriculum design, 35.7% of teachers feel they have adequate freedom to offer input, with 21.4% agreeing and another 21.4% satisfied, suggesting that more opportunities for teacher engagement may be beneficial. Lastly, the system for curriculum revision is seen as effective by half of the teachers (50%), but like other areas, there remains some space for enhancement in the remaining 21.4% who are satisfied. Overall, the feedback shows general satisfaction but highlights areas like employability, entrepreneurial skills, and faculty involvement where further improvements could be made.

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Action Taken Report

(School of Agriculture and Environmental Sciences)

Sr. No.	Suggestions	Action taken	Outcome
1	Enhance the balance between theory and application in the curriculum	Increased emphasis on practical training, hands-on projects, and real-world case studies across courses. Additional industry collaborations and field visits have been incorporated.	Positive feedback from students regarding practical learning experiences. Enhanced integration of theoretical knowledge with real-life application.
2	Expand multidisciplinary scope and elective courses	A review of the existing electives was carried out, leading to the introduction of new interdisciplinary courses that incorporate topics from various fields.	Greater variety in electives, resulting in increased student interest and enrollment in these courses. Broader knowledge base for students.
3	Improve entrepreneurial skills and industry readiness	Introduced more entrepreneurship-focused workshops, guest lectures from industry experts, and industry internships. Collaborative projects with industry partners have been introduced.	Higher student participation in entrepreneurship workshops. Industry partners reported a greater alignment of students' skills with industry needs.
4	Increase faculty involvement in curriculum design	Conducted regular curriculum review meetings and invited faculty to contribute ideas for course content and structure. More opportunities for faculty	Increased faculty engagement and satisfaction with the curriculum design process. Positive feedback regarding

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		feedback in curriculum design were provided.	enhanced communication between faculty and curriculum developers.

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Annexure- 3 (Item BOS 24.4)

BAG-317C: Research on a Medicinal Plant

CO: COURSE OBJECTIVES

CO-1 To develop understanding of the medicinal plant sector:

- Introduce the significance, history, and scope of medicinal plants in agriculture, healthcare, and the pharmaceutical industry.

CO-2 To explore the botanical and phytochemical properties:

- Study the botanical identification, taxonomy, morphology, and active constituents of selected medicinal plants.

CO-3 To train in scientific research methodologies:

- Understand and apply basic research methodologies including hypothesis formulation, experimental design, data collection, and analysis related to medicinal plants.

CO-4 To assess agronomic practices and cultivation techniques:

- Examine propagation methods, cultivation practices, pest and disease management, and post-harvest techniques for important medicinal plant species.

CO-5 To promote skills in data analysis and report writing:

- Equip students with the ability to compile experimental data, conduct statistical analysis, and present findings in a scientifically acceptable format.

CO-6 To raise awareness of value addition and commercialization:

- Learn about the processing, marketing, and regulatory aspects of medicinal plant products, including standardization and quality control.

CO-7 To encourage critical thinking and innovation:

- Foster inquiry-based learning and innovation in medicinal plant research, promoting sustainable and economically viable agricultural practices.

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Course Contents

Unit1

Introduction to Medicinal and Aromatic Plants History, scope, and significance of MAPs in agriculture and healthcare. Classification and global trade of MAPs. Prospects and challenges in MAP cultivation.

Unit 2

Traditional Systems of Medicine Overview of Ayurveda, Siddha, and Unani systems. Key medicinal plants utilized in these traditions. Concepts like Rasayana, Umoor-e-Tabiya, and polyherbal formulations.

Unit 3

Cultivation and Management of Medicinal Plants Propagation techniques: seed sowing, cuttings, layering, grafting, and budding. Nursery management and greenhouse practices. Cultural practices, including training, pruning, and irrigation.

Unit 4

Conservation of Medicinal Plant Biodiversity In situ and ex situ conservation methods. Red List criteria for endangered and endemic species. Role of institutions like NBPGR and CIMAP in conservation efforts.

Unit 5

Pharmacognosy and Phytochemistry Microscopic and organoleptic evaluation of plant drugs .Phytochemical screening and extraction methods. Standardization and quality control of herbal products.

Practical Components

- **Identification and Documentation**
  - Field collection and herbarium preparation of medicinal plants.
  - Morphological and anatomical studies.
  - Nursery bed preparation and seed sowing.
  - Propagation techniques and maintenance of MAPs.

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- **Phytochemical Analysis**
  - Extraction of essential oils and active compounds.
  - Qualitative and quantitative analysis of phytochemicals.
- **Project Work**
  - Conducting a mini-research project on a selected medicinal plant, including literature review, cultivation, analysis, and report writing.

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Annexure- 4 (Item BOS 24.5)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Even Semester (2024-2025)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1)	BAG-102 Fundamentals of Genetics	External Examiner 3. Dr. S. K. Singh, Professor **(CCSR PG College, Muzaffarnagar)**	+91-9410681790 drsksingh140@gmail.com
		4. Dr.AshvaniPanwar Designation- Associate Professor	+ 91-9457047628 drashvanipanwar@gmail.com
		Internal Examiner 7. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		8. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
2)	BAG-104 Agricultural Microbiology	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Dr.AyushBahuguna , Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com

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		Internal Examiner 5. Dr. Shivani	7505909890 shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
3)	BAG-106 Soil and Water Conservation Engineering	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
		2. Dr. Yogesh Kumar Professor, SVBPUAT, Meerut	09411826281 y2k_soil@hotmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4)	BAG-108 Fundamentals of Crop Physiology	External Examiner 1. Dr. Krishan Pal Malik, Assistant Professor **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		2. Dr. Sandeep Kumar Assistant Professor SVBPUAT, Meerut	09258163346 sandeep4554@gmail.com
		Internal Examiner 1. Dr. Shivani	7505909890

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			shivani@shobhitunivesity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
5)	BAG-110 Fundamentals of Agricultural Economics	External Examiner 1. Dr. H. L. Singh Professor, SVBPUAT MEERUT	09412300342 hlsingh123@gmail.com
		2. Y. K. Pandey Designation- Associate Professor GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Dr Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
6)	BAG-112 Fundamentals of Plant Pathology	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
		2. Dr. Rajbir Singh Associate Professor, GocharMahavidhyalaya	Cell No.+ 91- 9456613374 Email: rajbirsingh2810@gmail.com
		1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Mr Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in

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7)	BAG-114 Fundamentals of Entomology	Internal Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
		2. Dr. Vaseem	9997648029 vaseem887@gmail.com
8)	BAG-116 Fundamentals of Agricultural Extension Education	External Examiner 1. Dr. V. K. Singh Professor SVBPUAT	09412662341 virendrakum47@gmail.com
		2. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
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9)	BAG-118 Communication Skills and Personality Development	1. Dr. Rabeesh Kumar Verma Assistant Professor **(CCSR PG College, Muzaffarnagar**	+91-7988338378 rabeesh4700@gmail.com
		2. Dr. L. B. Singh Professor , SVBPUAT Meerut	09450155766 dr.lbsingh@gmail.com
		Internal Examiner 1. Mrs Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
10)	BAG-202 Crop Production Technology – II (Rabi Crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
11)	BAG-204 Production Technology for Ornamental Crops, MAP and Landscaping	External Examiner 1. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
		2. Dr.J.P. Singh Associate Professor, Gochar Mahavidhyalya	+ 91-9411039192, 8630896418 Email: singhjp2005@gmail.com

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12)	BAG-206 Renewable Energy and Green Technology	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
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13)	BAG-208 Problematic Soils and their Management	External Examiner 1. Dr. Sandeep Kumar Professor **(CCSR PG College, Muzaffarnagar)**	+91-9639001077 sandeepkail@yahoo.com
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		2. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
14)	BAG-210 Production Technology	External Examiner	9412113662 hahe1624@gmail.com

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		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
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		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
15)	BAG-212 Principles of Seed Technology	External Examiner 1. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
		2. Dr. Mukesh Kumar Professor, SVBPUAT Meerut	09412357992 k.mukesh123@yahoo.co.in
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		2.. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
16)	BAG-214 Farming System & Sustainable Agriculture	External Examiner 1. Dr. Dan Singh Professor, SVBPUAT MEERUT	09412801759 dansingh002@rediffmail.com
		2. Dr. S. K. Singh (Professor (CCSR PG College, Muzaffarnagar)	+91-9410681790 drsksingh140@gmail.com
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17)	BAG-216 Agricultural Marketing Trade & Prices	1. Y. K. Pandey Designation- Associate Professor, GocharMahavidhyalaya	Cell No.+ 91-9837728729 Email: drykpandey@gmail.com
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18)	BAG-302 Rainfed Agriculture & Watershed Management	External Examiner 1. Sayoni Das, Assistant Professor	7908958421 sdccragr@gmail.com
		2. Dr. Joni Kumar. Assistant Professor CCRPGC Muzaffarnagar	+91-9821476010 jonikumar68@gmail.com
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19)	BAG-304 Protected Cultivation	External Examiner	+91-7988338378 rabeesh4700@gmail.com

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		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
20)	BAG-306 Diseases of Field and Horticultural Crops and their Management-II	External Examiner 1. Dr. Ramesh Singh Professor , SVBPUAT, MEERUT	09412833798 imtikajjune2004@rediffmail.com
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21)	BAG-308 Post-harvest Management and Value Addition of Fruits and Vegetables	External Examiner 1. Er. Deepak Kumar Mishra Assistant Professor, SVBPUAT	09412484754 deepakmishrasvp@gmail.com
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		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
22)	BAG-310 Management of Beneficial Insects	External Examiner 1. Harikesh Singh Designation- Associate Professor, , Gochar Mahavidhyalya	Cell No.+ 91-9412680870 Email: harikesh.ento@gmail.com
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		Internal Examiner 1. Dr. Vaseem	9997648029 vaseem887@gmail.com
		2. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
23)	BAG-312 Crop Improvement-II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
		2. Dr. R. K. Naresh Professor SVBPUAT Meerut	09760182606 r.knaresh@yahoo.com
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24)	BAG-314 Practical Crop Production – II (Rabi crops)	External Examiner 1. Dr. Ombir Singh, Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9411463003 drsinghombir@gmail.com
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		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
25)	BAG-316 Principles of Organic Farming	External Examiner 1. Dr. Purushottam Associate Professor , SVBPUA&T, Meerut	09410036264 puruivri@rediffmail.com
		2. Ayush Bahuguna, Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	7668586615 ayushbahuguna1995@gmail.com
		Internal Examiner 1. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in
26)	BAG-318 Farm Management,	External Examiner 1. Dr. Adesh Kumar Assistant Professor	09412628586 adeshsingh29@rediffmail.com

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	Production & Resource Economics	SVBPUAT, Meerut	
		2. Dr. Krishan Pal Malik Assistant Professor, **(CCSR PG College, Muzaffarnagar)**	+91-9412612427 k.pal65@yahoo.co.in
		Internal Examiner 1. Dr.Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhitunivesity.ac.in

Signed by:

(Chairman, BOS)

(Dean Academies)

(Vice Chancellor)

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 01.06.2024

NOTICE

Subject: Meeting of the Board of Studies

All members of the Board of Studies are hereby informed that a meeting will be held as per the following details:

Date: 12.06.24
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

Agenda:

1. Approval of the Minutes of the 22nd BOS Meeting held on 21st Dec. 2023 was circulated among the members and the same were notified after the approval of the Board of Studies.
2. Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B. Sc. Ag. Hons. for session **July to Dec. 2024.**
3. Discussion on the Value Added courses offered for students and ratification of the same.
4. Any other matter with the permission of the Chair.

All members are requested to make it convenient to attend the meeting and come prepared with relevant documents and suggestions.

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

SHOBHIT UNIVERSITY GANGOH ★ H.O.D. ★ School of Agriculture & Environmental Sciences

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 01.06.2024

To
Dr. D. V. Singh
Principal
Vidyadeep Degree College
Bilaspur Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 12.06.2024
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

School of Agriculture & Env. Sciences * H.O.D. *

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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 01.06.2024

To
Dr. C. S. Singh
Associate Professor
Gochar Mahavidyalaya
Rampur Maniharan Saharanpur

Subject: Invitation to Attend the Board of Studies Meeting.

Dear Sir,

We are pleased to invite you to participate as an external subject expert in the upcoming meeting of the Board of Studies for the Department of Agriculture, scheduled as follows:

Date: 12.06.2024
Time: 10:00 am
Venue: School of Agriculture & Environmental Sciences SUG.

The meeting will deliberate on important academic matters including syllabus revision, new course proposals, and academic planning for the upcoming session. Your expert insights and contributions would be invaluable to the academic enrichment of our programs.

We request you to kindly confirm your availability and mode of attendance at your earliest convenience. For online participation, a meeting link will be shared upon confirmation. If attending in person, necessary hospitality arrangements will be made.

We look forward to your positive response and support.

Thank you.

Warm regards,

Chairperson, Board of Studies
School of Agriculture & Environmental Sciences
Shobhit University Gangoh (Saharanpur)

Shobhit University
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SHOBHIT UNIVERSITY GANGOH

School of Agriculture and Environmental Sciences

Date: 12.06.2024

Attendance Sheet (23th BOS Meeting)

S. No	Name	External/Internal Member	Signature
1.	Dr. D. V. Singh	External	
2.	Dr. C. S. Singh	External	
3.	Dr. Shivani	Internal	
4.	Mr. Amit Kumar	Internal	

Chairman
School of Agriculture & Environmental Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

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School of Agriculture & Environmental Sciences

Date: 12.06.2024

Minutes of the Meeting of Board of Studies

23rd meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 12th June 2024 at 10:00 am onwards. The following members were present in the meeting:

1.	Dr. Vikas Kumar Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
2.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
3.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
4.	Dr. Shivani Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
5.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

Welcome address by Chairman
The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Scheme and syllabi of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 23.1: Approval of the Minutes of the 22nd BOS Meeting held on 21st Dec. 2023

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was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 23.2: Approval of Examiners (Theory & Practical) and Paper Setters for the odd semester courses in B. Sc. Ag. Hons. for session **July to Dec. 2024** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover. {Annexure-2}

Item BOS 23.3: Discussion on the Value Added courses offered for students and ratification of the same.

- BOS members approved the list of Value added courses offered to students.

The meeting ended with a vote of thanks to the Chairman, Board of Studies.

The suggestions given by the panel of BOS have been discussed with the Vice Chancellor and Dean Academics. The action taken on the suggestions has been approved by competent authorities.

Signed by:

School of Agriculture & Environmental Sciences SHOBHIT UNIVERSITY GANGOH HoD

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH REGISTRAR Saharanpur (U.P.)

(Dean Academies)

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Annexure- 1 (Item BOS 23.1)

School of Agriculture & Environmental Sciences

Date: 21.12.2023

Minutes of the Meeting of Board of Studies

22nd meeting of the Board of Studies of the School of Agriculture & Environmental Sciences, Shobhit University Gangoh was organized on 21st Dec. 2023 at 10:00 am onwards. The following members were present in the meeting:

6.	Dr. Shivani Asstt. Professor & Head School of Agriculture & Environmental Sciences Shobhit University Gangoh	Chairperson
7.	Dr. D. V. Singh Principal Vidyadeep Degree College Bilaspur Saharanpur	External expert
8.	Dr. C. S. Singh Associate Professor Gochar Mahavidyalaya Rampur Maniharan Saharanpur	External Expert
9.	Dr. Vikas Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member
10.	Mr. Amit Kumar Asstt. Professor School of Agriculture & Environmental Sciences Shobhit University Gangoh	Member

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Welcome address by Chairman

The Chairman extended a warm welcome to all the members of Board of Studies and the following information was tabled before the members of the Board of Studies:

Input given by the Subject Experts on the Schemes and syllabus of the ongoing Batches.

The following discussed and approved on Choice Based Credit System:

Item BOS 22.1: Approval of the Minutes of the 21st BOS Meeting held on 27 June 2023 was circulated among the members and the same were notified after the approval of the Board of Studies. {Annexure- 1}

Item BOS 22.2: Analysis of Students' feedback & Action taken report:

- BOS Chairman has expressed that the student feedback and action taken report process is done at the end of the semester. The BOS members noted the same.

Item BOS 22.3: Analysis of the feedback on curriculum from stakeholders:

- The BOS chairman presented the analysis report of stakeholders' feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed herewith. {Annexure-2}

Item BOS 22.4: Approval of modification in the Syllabus of 4th & 6th Semester in B.Sc. Agriculture Hons. {Annexure-3}

- **BOS members approved Syllabus of 4th semester-course code: BAG-208**
- **BOS members approved Syllabus of 6th semester-course code: BAG-312.**

Item BOS 22.4: Approval of Examiners (Theory & Practical) and Paper Setters for the even semester courses in B.Sc. Ag. Hons. for session **Jan. to June 2024.** The same is being sent to the Controller of Examinations, Shobhit University Gangoh, in a sealed cover.
{Annexure-4}

Item BOS 22.5: Discussion on the Value Added courses offered for students and ratification of the same.

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Signed by:

School of Agriculture Sciences
SHOBHIT UNIVERSITY GANGOH
H.o.D.

(Chairman, BOS)

(Vice Chancellor)

SHOBHIT UNIVERSITY GANGOH
REGISTRAR
Saharanpur (U.P.)

(Dean Academies)

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Annexure- 2 (Item BOS 23.2)

SHOBHIT UNIVERSITY GANGOH
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL SCIENCES

List of Examiners for Odd Semester (2024-2025)

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.	Fundamentals of Horticulture (BAG-101)	External Examiner 1. Dr. JP Singh Associate Professor, GMV Rampur	8630896418 singhjp2005@gmail.com
		2. Dr. Himanshu Kaushik Assistant Professor, GMV Rampur	9719590006 himanshukaushik@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706
2	Fundamentals of Plant Biochemistry/ Biotechnology (BAG-103)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner	7505909890

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		1. Dr. Shivani	shivani@shobhituniversity.ac.in
		2. Dr. Sarita Sharma	9634585160 sarita.sharma@shobhituniversity.ac.in
3.	Fundamentals of Soil Science (BAG-105)	External Examiner 1. Mr. Amit Kumar Assistant Professor, GMV Rampur	9675000234 amit.tomar371@gmail.com
		2. Dr. Chandra Shekhar Associate Professor, GMV Rampur	6397337029 chandrashek2006@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
4.	Introduction to Forestry (BAG-107)	External Examiner 1. Dr. Amit Kumar	8954712290 amithorti95@gmail.com
		2. Dr. Satendra Kumar	9870986003 satendrakumar@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Comprehension & Communication Skills in English (BAG-109)	External Examiner 1. Dr. Jyoti Sharma Associate Professor SUM	9412833952 jyotimk123@gmail.com
		2. Dr. Yevgeniya Z Associate Professor SUM	9149132891

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		Internal Examiner 1. Mrs. Ritu Sharma	9634982678 sharma.rituakky04@gmail.com
		2. Dr. Gunjan Agarwal	7533857468 gunjan.agarwal@shobhituniversity.ac.in
6.	Fundamentals of Agronomy (BAG-111)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Mr. Badrish Tiwari	7355110285 badrishpp@gmail.com
7.	Introductory Biology*(BAG-113)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Garima Choudhary	7017602658 garima.choudhary@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890
8.	Elementary Mathematics (BAG-115A)	External Examiner 1. Dr. Vipin Kumar Associate Professor SUM	9411068399 vipin.tyagi@shobhituniversity.ac.in
		2. Dr. Anil Kumar	8171418088

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		Associate Professor SUM	anil.kumar@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Vishvash Chand	928609396 vishvash.chand@shobhituniversity.ac.in
		2. Mr. Sumit Sharma	9720045764 sumit.sharma@shobhituniversity.ac.in
9	Agricultural Heritage*(BAG-117)	External Examiner 1. Mr. Puspendra Kumar Assistant Professor GMV Rampur	8958308404
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Dr. Mahendru Gautam	8504864473 mahendru.gautam@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713
10.	Rural Sociology (BAG119)	External Examiner 1. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 9411456399 amit.tomar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
11.		External Examiner	8090506371

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	Human Values/Ethics (non gradial) (BAG-121)	1. Dr. Manoj Kumar Associate Professor SUM	manoj.kumar@shobhituniversity.ac.in
		2. Dr. Snigdha Tiwari Associate Professor SUM	9457907517 singdha.tiwari@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
12.	NSS/NCC/Physical Education & Yoga Practices** (BAG-123)	External Examiner 1. Dr. Manoj Kumar Assistant Professor SUM	8090506371 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor SUM	9634712358 alpna.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Amit Kumar	7060717492 8090506371 amit.kumar@shobhituniversity.ac.in
		2. Mr. Rohit Kumar	969041235080905063 71 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the	Contact number with E. Mail ID

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		Paper Setter/Examiner	
1.	Crop Production Technology – I *(Kharif Crops)* (BAG-201)	External Examiner 1. Dr. Dharmveer Singh Associate Professor GMV Rampur	8923971354 singhveer@gmail.com
		2. Dr. S.K. Kataria Associate Professor GMV Rampur	9675799638 skkataria@gmail.com
		Internal Examiner 3. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		4. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
2	Fundamentals of Plant Breeding (BAG-203)	External Examiner 1. Dr. Ashwani Panwar Associate Professor GMV Rampur	ashwani.panwar@gmail.com 6397337076
		2. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in

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		Internal Examiner 1. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Agricultural Finance and Cooperation (BAG-205)	External Examiner 1. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amit.kumar@gmail.com
		2. Dr. Satendra Kumar Assistant Professor GMV Rampur	9761983736 satendra.ku@gmail.com
		Internal Examiner 1. Mr. Harsh Panwar	9368437354 harsh.panwar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
4.	Agri-Informatics (BAG-207)	External Examiner 1. Manoj Kumar Associate Professor SUM	8090506371 manoj.kumar@ shobhituniversity.ac.in
		2. Mr Pawan Kumar Associate Professor SUM	9870986003 pawan.kumar@shobhituniversity.ac.in
		Internal Examiner	8273439389 sagar.panwar@shobhituniversity.ac.in

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		1. Mr. Sagar Panwar.	
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Farm Machinery and Power (BAG-209)	External Examiner 1. Mr Asheesh Malik Assistant Professor Quantum University Roorki	9557471931 asheeshmalik.9@gmail.com
		2. Mr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@gmail.com
		2. Mr Amit Kumar	9548040378 amit.tomar371@gmail.com
6.	Production Technology for Vegetables and Spices (BAG-211)	External Examiner 1. Dr. Himanshu Kaushik Assistant Professor GMV Rampur	9719590006 himanshu.kaushik@gmail.com

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		2. Dr. Amrendra Kumar Assistant Professor GMV Rampur	9761211114 amrendra.mr@gmail.com
		Internal Examiner 1. Dr. Vikas Kumar	9627920015 vikas.panwar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmamulhaqpadhan786@gmail.com
7.	Environmental Studies and Disaster Management (BAG-213)	External Examiner 1. Dr. Shiva Associate Professor SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Statistical Methods BAG-215)	External Examiner 1. Dr. Sandeep Kumar Professor C.R PG College Muzzfernagar	9639001077 sandeepkail@yahoo.com

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		2. Dr. Divya Prakash Associate Professor SUM	9411456399 divya1sharma1@gmail.com
		Internal Examiner 1. Dr. Vishvash Chand	9286093196 vishvash.chand@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 9286093196 kimal.kishore@shobhituniversity.ac.in
9.	Livestock and Poultry Management (BAG-217)	External Examiner 1. Dr. G. R. Singh Professor CR PG College Muzzafernagar	9837104593 drgrsingh@gmail.com
		2. Dr. Om Singh Assistant Professor GMV Rampur	9719612532 singh.om@gmail.com
		Internal Examiner 1. Mr. Amit Kumar	7060717492 amit.tomar371@gmail.com
		2. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in

Sr. No.	Course code with Title	Name, Designation, Institution and Correspondence address of the Paper Setter/Examiner	Contact number with E. Mail ID
1.		External Examiner	9412680873

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	Principles of Integrated Pest and Disease Management (BAG-301)	1. Dr. Harikesh Kumar Associate Professor GMV Rampur Maniharan	harikesh2006@gmail.com
		2. Dr. Ajay Kumar Assistant Professor CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		Internal Examiner 5. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		6. Mr. Vivek Shukla	8279370318 vivek.shukla@shobhituniversity.ac.in
2	Manures, Fertilizers and Soil Fertility Management (BAG-303)	External Examiner 1. Dr. Amit Kumar Assitant Professor GMV Rampur Maniharan	9675000234 amit.kumar82@gmail.com
		2. Dr. Chandra Shekhar GMV Rampur	8937877339 chandrashekhar90@gmail.com
		Internal Examiner 3. Mr. Rohit Kumar	9690412350 rohit.saini@shobhituniversity.ac.in
		4. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
3.	Pests of Crops and Stored Grain and their Management (BAG-305)	External Examiner 1. Dr. Ajay Kumar CCSU Meerut	9410221111 kumarajay.ag.pp@gmail.com
		2. Dr. Satendra Kumar GMV Rampur	9761983736 kumar.satendra@gmail.com
		Internal Examiner 1. Mr.Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713

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			kamal.kishore@shobhituniversity.ac.in
4.	Diseases of Field and Horticultural Crops and their Management – I (BAG-307)	External Examiner 1. Dr. Rajbir Singh GMV Rampur	9456613374 rajbirsingh2810@gmail.com
		2. Mr Asheesh Malik Assistant Professor Motherhood University Roorkee	9557471931 asheeshmalik.9@gmail.com
		Internal Examiner 1. Mr. Badrish Tiwari	7355110285 badrish.tiwari@shobhituniversity.ac.in
		2. Mr. Neeraj Kumar	9917995447 neerajmandhar123@gmail.com
5.	Crop Improvement-I *(Kharif Crops)* (BAG-309)	External Examiner 1. Mr Asheesh Malik Assistant Professor Matherhood University	9557471931 asheeshmalik.9@gmail.com
		2. Dr. Amit Kumar Assistant Professor GMV Rampur	9675000234 amithorti95@gmail.com
		Internal Examiner 1. Mr. Deepak Kumar	9719297279 deepakchoudhary766883@g
		2. Mr Amit Kumar	9548040378 Amit.agri@shobhituniversity.ac.in
6.	Entrepreneurship Development (BAG-311)	External Examiner 1. Dr. KamleshShukla, Assoc. Prof	Mobile No.: 8960993319 Email.Id:Drkkshukla78@gmail.com
		2. Ms. DeepaSaini, Lecturer, Dept. of Management Studies, Asian	Mobile No.: 8006526922 Email.Id:deepasaini3592@gmail.com

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		Group of College, Saharanpur	
		Internal Examiner 1. Dr. Amit Kumar	9627920015 amit.tomar@shobhituniversity.ac.in
		2. Mr. Injmam	8392956706 injmam.ulhaq@shobhituniversity.ac.in
7.	Geo-informatics/Nano-technology & Precision Farming (BAG-313)	External Examiner 1. Dr. Shiva Assistant Professor, SUM	8937877339 shiva@shobhituniversity.ac.in
		2. Dr. Alpna Joshi Associate Professor, SUM	9634712358 alpana.joshi@shobhituniversity.ac.in
		Internal Examiner 1. Mr Amit Kumar	8565073036 amit.kumar@shobhituniversity.ac.in
		2. Dr. Shivani	7505909890 shivani@shobhituniversity.ac.in
8.	Practical Crop Production – I (*Kharif* crops)BAG-315)	External Examiner 1. Dr. Manoj Kumar Assistant Professor, SUM	8171418088 manoj.kumar@shobhituniversity.ac.in
		2. Dr. Divya Prakash Professor, SUM	9411456399 divya.prakash@shobhituniversity.ac.in
		Internal Examiner 1. Mr. Anand Kumar	8565073036 anand.kumar@shobhituniversity.ac.in
		2. Dr. Kamal Kishore	8299391713 kamal.kishore@shobhituniversity.ac.in
9.	Intellectual Property	External Examiner 1. Dr C.S. Singh	9837191293 singhcs25@gmail.com

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