



**Shobhit  
University**

EDUCATION EMPOWERS

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## School of Agriculture & Environmental Sciences

### Student-Centric Methods

#### Introduction:

The School of Agriculture and Environmental Sciences envisions creating a dynamic and inclusive learning environment that places students at the centre of the educational process. Guided by the principles of the National Education Policy (NEP) 2020, the school is committed to fostering critical thinking, creativity and collaboration through innovative pedagogical practices. By promoting experiential, interdisciplinary and participatory learning methods—such as project-based learning, peer instruction, flipped classrooms and real-world problem-solving the school aims to equip students with practical skills, a spirit of inquiry and a lifelong learning mindset essential for addressing contemporary agricultural and environmental challenges.

#### The following student-centric methods are practicing in School:

The School of Agriculture and Environmental Sciences (SAES) at Shobhit University, Gangoh, has effectively implemented eight out of nine student-centric learning methods, in alignment with the objectives of the National Education Policy (NEP) and the quality benchmarks of the NAAC framework. These methods aim to provide outcome-based education that is experiential, interdisciplinary, participatory and aligned with real-world challenges.

#### 1. Experiential Learning

Students actively participate in field-based activities through village visits, providing direct exposure to farming practices. The Rural Agricultural Work Experience (RAWE) program facilitates rural immersion and practical understanding of agricultural systems. Experiential learning is further reinforced through events such as Farmers' Day (23<sup>rd</sup> December each year) and Soil Science Day (5<sup>th</sup> December each year) celebrations, along with skill-building workshops on landscaping, beekeeping and mushroom production. Collaborative activities have been conducted with institutions including Gochar Mahavidyalaya (Rampur Maniharan), Jyoti Gramodyog Sansthan (Gangoh) and KVK Saharanpur. In addition, Practical Crop Production (PCP) is conducted during both Rabi and Kharif seasons. Laboratory work includes soil testing, pH measurement, electrical conductivity (EC) analysis using EC meters, and biochemical tests to assess soil health and nutrient status.

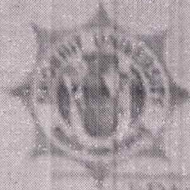
#### 2. Integrated and Interdisciplinary Learning

The academic curriculum integrates subjects such as English, Mathematics, Yoga, Computer Science and NCC/NSS, promoting a well-rounded educational experience. Seminars on career counselling and value-added courses like Advanced Agricultural Marketing Management further enhance students' academic and professional skills. Interdisciplinary activities also include participation in Nukkad Natak (street plays) to communicate social and agricultural themes.

#### 3. Participatory Learning

Students engage in group discussions, debates and poster presentations on critical topics such as precision farming, organic agriculture, indigenous technical knowledge (ITK) and climate change. As part of RAWE, they interact with farmers and participate in open-house discussions involving KVK scientists and faculty members. Students also contribute to agricultural magazines through research-based articles.





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**4. Problem-Solving Learning**

The development of analytical skills is promoted through problem-based learning approaches, find out the problem like farmers field issue, climate change, including laboratory-based investigations such as soil and biochemical analysis, as well as interactive discussions that focus on identifying and addressing contemporary agricultural challenges.

**5. Self-Directed Learning**

Students are encouraged to pursue Massive Open Online Courses (MOOCs) through platforms like SWAYAM, NPTEL and DigiCampus. They also participate in online quizzes, utilize flipped classroom models and attend external events such as the Kisan Mela at SVPUAT, Meerut and workshops on drone technology to broaden their learning experience.

**6. Project-Based Learning**

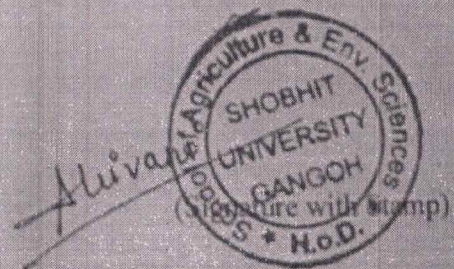
The curriculum in Semesters VII and VIII is primarily project-oriented. Students undertake major field-based projects during RAWE and related extension activities, enabling them to apply theoretical knowledge in real-world agricultural contexts.

**7. Role Play Learning**

Students engage in role play and community outreach initiatives, such as the Clean-Up and Roadside Repair Drive and conduct awareness campaigns in rural areas to educate farmers about modern and sustainable agricultural practices. These initiatives are conceptualized and developed based on classroom creativity, allowing students to translate theoretical knowledge into practical, socially impactful actions.

**8. Humanities in Learning**

Students are introduced to humanities, arts, and cultural values through activities such as debates, yoga, and the development of vertical farming models, fostering both creativity and critical thinking. Cultural engagement is further enhanced through events like AgriRoute Fest-2025, which celebrates how food travel from soil to plate. These initiatives also aim to enhance students' writing skills on socially relevant themes and encourage active participation in debates and awareness programmes, particularly those focused on the humanistic and societal roles of agriculture in rural development.








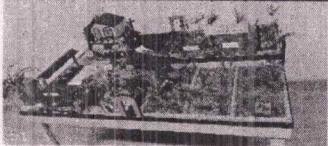


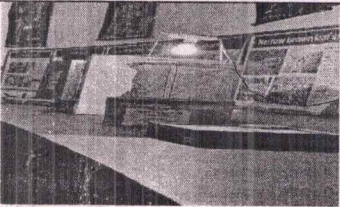
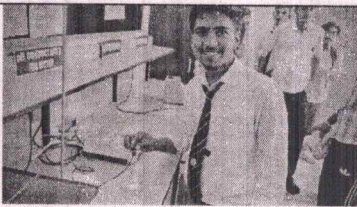

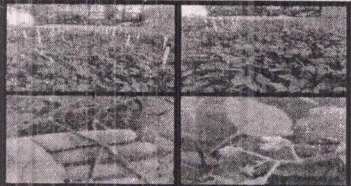


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**2024-25**



## 1. Experimental Learning

		
SAES students going to field visit	RAWE internship B.Sc. Agriculture Hons. 4 <sup>th</sup> Year students	Farmers from different villages nearby Gangoh invited by School during Kisan Diwas 23 <sup>rd</sup> December 2024)
		
A model prepared by SAES students on Doubling Farmer income through Integrated Farming System (IFS)	A workshop on types of Farming system, Students Display different type of farming system via a live model	Dr. S.K. Kushwaha, Director, Krishi Vigyan Kendra Saharanpur visit SUG for collaborative event on Crop residue Management (IN-SITU) college level programme
		
Students prepared Lght trap for students	Student measure soil pH and Electrical conductivity on laboratory	Soil testing by students
		
Practical on crop production on mung bean		



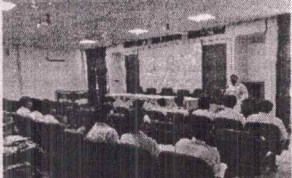

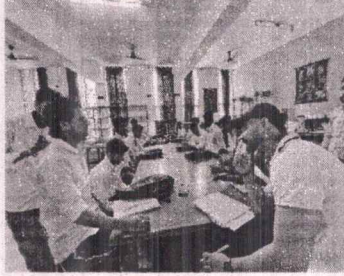
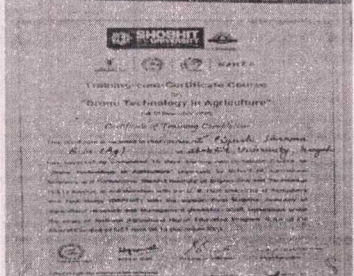

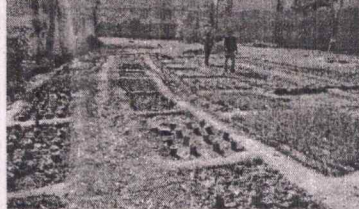



## 2. Integrate and Interdisciplinary learning

		
Conducted Yoga classes for SAES students	SAES students participated in NCC	Students can opt interdisciplinary Courses as per curriculum
		
Students Play Cricket	Students visit Villages during RAWE-2023	Farmers Participation on Seminar by the faculty members & Students on "Agriculture is everywhere: nurturing Growth across the globe"
		
Press Coverage Students Perform Nukkad-Natak on farmers problems	Students Perform Nukkad-Natak on farmers problems during Jai kisaan Jai Vigyaan Week	Flyer A Seminar by the faculty members & Students on "Agriculture is everywhere: nurturing Growth across the globe"


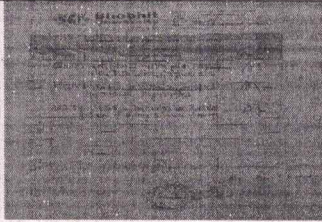
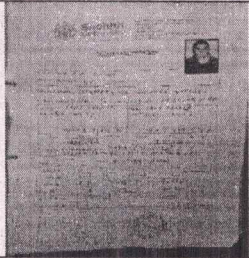
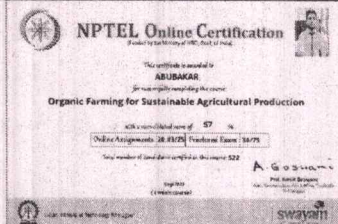
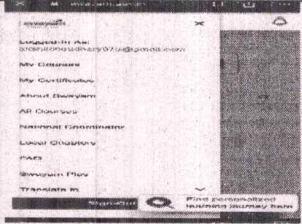
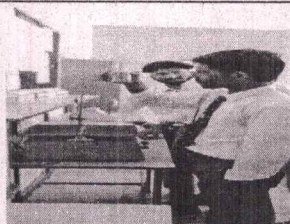


### 3. Participatory Learning

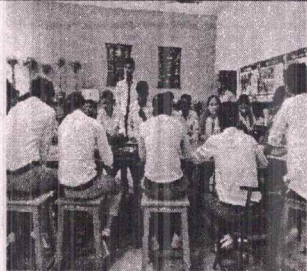
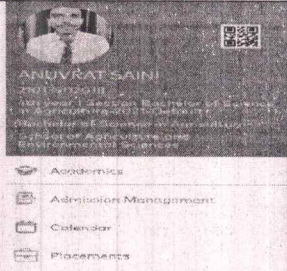
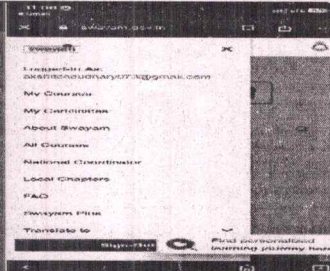

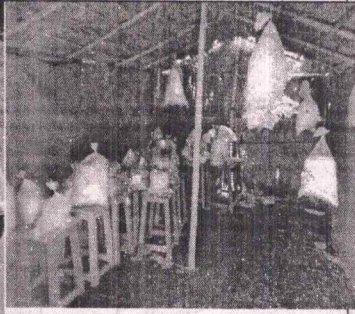
		
<p>Students visit Kisan Fair at Sardar Vallabhbhai Patel University of Agriculture &amp; Technology, Meerut, UP Date: 18 October 2023</p>	<p>Press Coverage Students visit Kisan Fair at Sardar Vallabhbhai Patel University of Agriculture &amp; Technology, Meerut, UP Date: 18 October 2023</p>	<p>Debate on agronomical Crops</p>
		
<p>Open house discussion on Disease of field crops between teachers, Farmers</p>	<p>Group Discussion on Precision Farming by students</p>	<p>Student Participation Certificate on Training Cum certificate on " Drone Technology in Agriculture" 4<sup>th</sup> to 13<sup>th</sup> December 2024 at Shobhit Deemed to be University, Meerut</p>
		
<p>Students Participated on Training Cum certificate on " Drone Technology in Agriculture" 4<sup>th</sup> to 13<sup>th</sup> December 2024 at Shobhit Deemed to be University, Meerut</p>	<p>Nursery Preparation on Horticultural Crops</p>	<p>Students visit Village Charchauli Block Nanauta during Extension activities</p>



#### 4. Problem Solving Learning

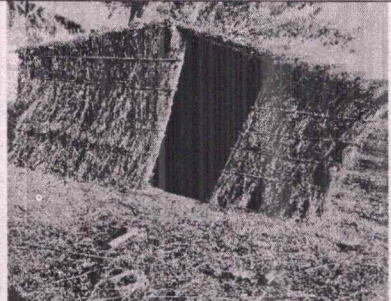




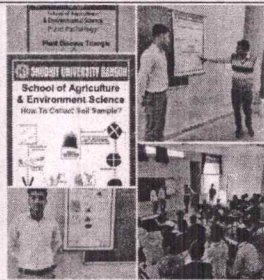
		
Students Discussion with Teachers	Mentor- Mentee form	Mentee Record
		
Student Join NPTEL online certificate course on "Organic farming for sustainable Agricultural Production"	BSc Agriculture Hons. 2 <sup>nd</sup> Year Student Registered in SWAYAM portal	Students work on Soil Science laboratory

#### 5. Self-Directed Learning

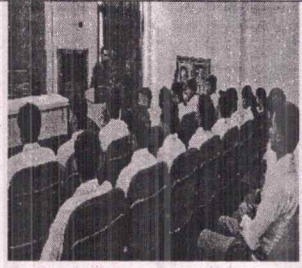

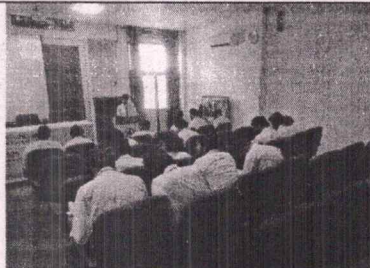

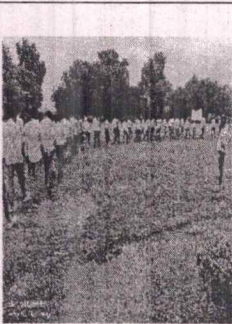

		
Students working on self-study plans	Student registered on collpoll	Student Registered on SWAYAM PORTAL
		
B.Sc. Agriculture hons. Students Worked on Mushroom Bag Preparation	Mushroom Production	



## 6. Project Based Learning

		
Mushroom Hut 2023	Mushroom Bag Prepared By BSc ag Hons. Students	Mushroom grow
		
Poster Presentation by students on Indigenous Technical Knowledge	Tagging of Practical Crop Production (PCP) Field	Poster Presentation by student on national science day

## 7. Role Play Learning

		
Teacher Student Classroom Scenario	Teacher Student Classroom Scenario	Teacher Student Classroom Scenario
		



Students Display Dr. Sunhash Palekar methodology on zero budget natural Farming	Student involve in counselling role play	Dr. Shivani, Assistant Professor, SAES, Discussed with students about RAWE
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## 8. Humanities in Learning

		
Fresher Party" Theme Green beginning" -2023	Press release fresher party 2023	Students discussion in University lawn
		
Social Involment by students	Yoga demonstation by students	Student discussion at agriculture lab

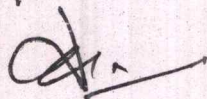
## Signature and Verification

Prepared by:

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Designation: Assistant Professor

Date: 23/11/2024



Verified by:

Name: Dr. Shivani

Designation: Assistant Prof.

Date: 23/11/2024

