



Shobhit
University

EDUCATION EMPOWERS

Babu Vijendra Marg, Adarsh Institutional
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School of Ayurveda (KSVAMC&RC)

Doctor of Medicine (Kayachikitsa)

Program Outcomes, Program Specific Outcomes & Course Outcomes (POs, PSOs & COs)

Program Outcomes

Program Outcome		Statement
PO 1	Knowledge Mastery	Demonstrate advanced and integrated knowledge of Ayurvedic principles, diagnostic techniques, and chikitsa siddhantas across various systemic disorders.
PO 2	Clinical Competence	Apply Ayurvedic and conventional clinical examination methods and therapeutic interventions effectively in diagnosing and treating patients.
PO 3	Multidisciplinary Integration	Integrate Ayurvedic wisdom with modern diagnostic and treatment modalities such as ECG, MRI, USG, and pathology to improve patient outcomes.
PO 4	Research Skills	Conduct independent research using both classical Ayurvedic methods and contemporary scientific research techniques, including clinical trials and data analysis.
PO 5	Ethical and Legal Awareness	Practice with full awareness of medical ethics, legal frameworks, patient rights, and clinical responsibilities, including the use of consent forms and IEC/AEC guidelines.
PO 6	Health Program Participation	Contribute to National Health Programs and AYUSH campaigns, promoting Ayurveda in public healthcare and preventive medicine.
PO 7	Communication and Education	Effectively communicate clinical knowledge and research findings, and educate patients and peers using scientific writing and presentations.
PO 8	Emergency and Critical Care Management	Manage critical care situations and medical emergencies using Ayurvedic and contemporary protocols in ICU and field settings.
PO 9	Lifelong Learning and Innovation	Engage in continuous learning and innovation through advances in Rasayana, Vajikarana, Panchakarma, and emerging diseases.
PO 10	Evidence-Based Practice	Utilize data from clinical research, statistics, and biostatistical software (SPSS/GraphPad) to inform and refine clinical practice.
PO 11	Interdisciplinary Collaboration	Collaborate with healthcare professionals from different systems and specializations for holistic patient care and research.
PO 12	Environmental and Public Health Awareness	Address Janapadodhwamsa Vikaras and environmental diseases, contributing to disaster management and public health resilience.

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Program Specific Outcomes (PSOs)

Program Specific Outcome	Statement
PSO 1	Apply Nidana, Chikitsa, Panchakarma, and Rasayana therapies in diseases related to Pranavaha, Annavaaha, Rasavaha, Raktavaha, and other srotasas.
PSO 2	Diagnose and manage Vishishta Rogas including neurological, metabolic, autoimmune, psychiatric, and infectious diseases using Ayurveda and conventional medicine.
PSO 3	Design and execute research studies in Ayurveda incorporating modern tools, ethical compliance, data analysis, and publication strategies.
PSO 4	Demonstrate proficiency in using specialized therapeutic strategies like Vajikarana, Rasayana, stem cell research, immunomodulators, and rehabilitation.

Course Outcomes (COs)

1st Year

Course: Kayachikitsa Preliminary

Course Outcomes	Statement
CO 1	CO - 1 Fundamental concepts of Kayachikitsa: Understand and analyze the fundamental concepts of <i>Kayachikitsa</i> such as Vriddhi, Kshaya of Dosha-Dushya, Agni, Ama, Srotodushti, Khavaigunya, and Dosha Gati, aiding in accurate pathogenesis interpretation.
CO 2	CO - 2 Dosha Gati, Aavarana, Ashayapakarsha, Rogamarga, Kriyakala: Apply principles of Amshaamsha Kalpana, Ashayapakarsha, Aavarana, and Rogamarga to comprehend disease progression and therapeutic targeting through Kriyakala.
CO 3	CO - 3 Rogi-Roga Pariksha: Demonstrate comprehensive clinical skills in Rogi-Roga Pariksha using traditional methods like Ashtavidha, Dashavidha, Shadvidha, Trividha, and Prakrityadi Dashavidha Pariksha for accurate diagnosis and prognosis.
CO 4	CO - 4 Chikitsa Siddhanta of Major Srotovikara: Implement Chikitsa Siddhanta in the management of systemic diseases related to





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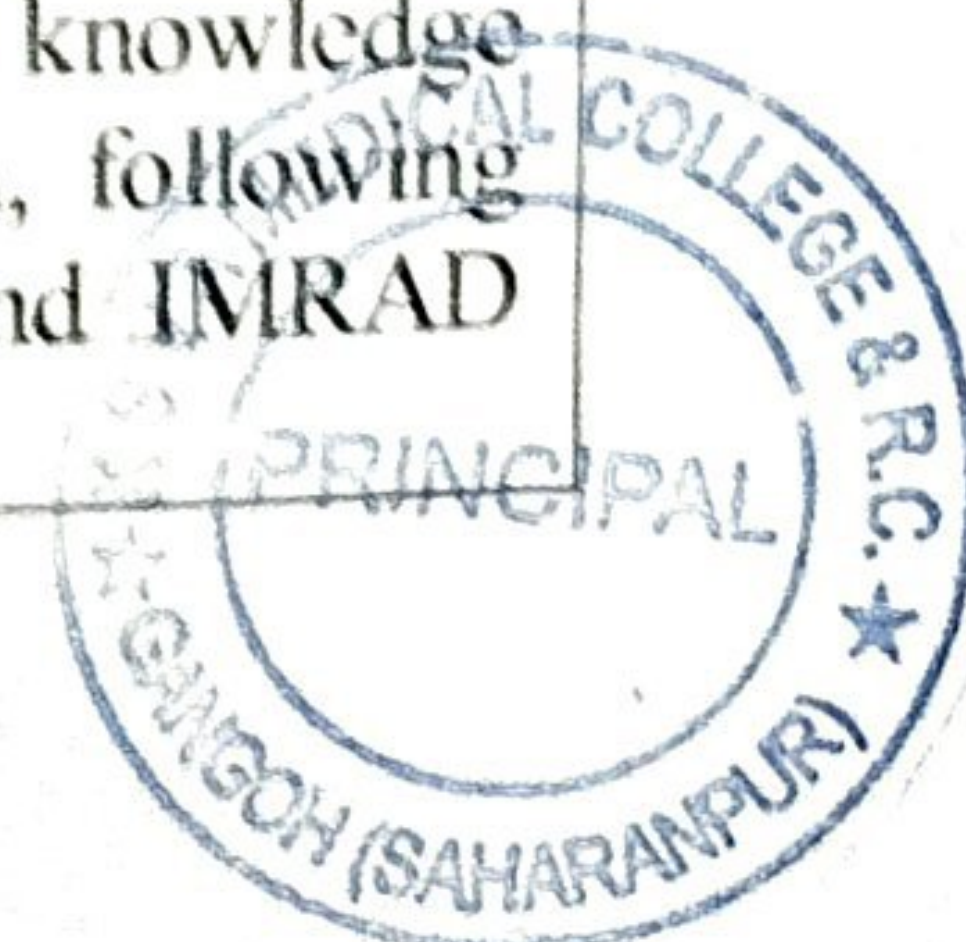
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	Pranavaha, Annavaha, Udakavaha, Rasadi Dhatuvaha, Malavaha, and Manovaha Srotas.
CO 5	CO - 5 Emergency Medicine: Evaluate and manage medical emergencies such as acute asthma, MI, stroke, electrolyte imbalance, etc., with an integrative approach combining Ayurveda and emergency medicine protocols.
CO 6	CO - 6 Medical Procedures: Exhibit competency in performing essential medical procedures like infusions, catheterization, CPR, lumbar puncture, and use of devices like Ryle's tube, including understanding of water seal drainage.
CO 7	CO - 7 Diagnostic Tools (ECG, X-ray, CT, etc.): Interpret diagnostic tools like ECG, TMT, Echo, Doppler, EEG, EMG, X-Ray, USG, CT, MRI, PET, and correlate findings with clinical diagnosis and Ayurvedic principles.
CO 8	CO - 8 Ayurvedic Formulations: Prescribe and rationally use Ayurvedic formulations (e.g., Churna, Vati, Guggulu, Rasaushadhi, Kashaya, Asava-Arista, Taila, Ghrita, Lehya) in disease-specific treatments, based on <i>Vyadhi</i> and <i>Rogi Bala</i> .
CO 9	CO - 9 Aushadha Sevana Kala, Anupana, Pathya-Apathya: Integrate Anupana, Pathya-Apathya, and Aushadha Sevana Kala scientifically in treatment to enhance efficacy and ensure holistic recovery.
CO 10	CO - 10 Introduction of the basic principles of other systems of medicine: Analyze and compare the foundational concepts of Modern medicine, Homeopathy, Unani, Siddha, Tibetan Medicine, Yoga, and Naturopathy, and assess their relevance in Ayurvedic disease management for interdisciplinary understanding.

Course: Research Methodology & Medical Statistics

Course Outcomes	Statement
CO 1	CO - 1 Fundamentals of Research in Ayurveda: Understand the concept and process of research and Anusandhan, its relevance and application in Ayurveda, and formulate research problems and hypotheses effectively.
CO 2	CO - 2 Research Process: Gain skills in designing a research protocol including observational and interventional studies, defining objectives, selecting appropriate sample design, and conducting ethical research involving human and animal subjects.
CO 3	CO - 3 Proposal Writing: Develop competency in preparing research proposals, especially for AYUSH and EMR schemes, and navigate funding opportunities for Ayurvedic research.
CO 4	CO - 4 Scientific Writing & Publication Ethics: Acquire knowledge and hands-on skill in scientific writing and publication, following CONSORT guidelines, proper referencing methods, and IMRAD structure for articles and dissertations.





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CO 5	CO - 5 Clinical & Classical Research Techniques: Explore Ayurvedic classical methods of research including Pramana, Pariksha paddhati, and compare these with contemporary research methodologies for holistic application.
CO 6	CO - 6 Drug Research and Quality Assessment: Identify and differentiate among fields of research in Ayurveda such as fundamental, literary, drug-based, clinical, and understand toxicological and pharmacological assessment techniques using AYUSH, WHO, and OECD guidelines.
CO 7	CO - 7 Drug Discovery Techniques and Quality Standards: Demonstrate understanding of newer drug discovery techniques and development processes including rational approaches, systems biology, and cell-based assays, with awareness of quality standards like GMP and GLP.
CO 8	CO - 8 Clinical Research Methodology and Trial Designs: Apply principles of clinical research methodology including study designs (RCTs, cohort, cross-sectional), adaptive trials, and GCP, with the ability to handle bias and errors in research.
CO 9	CO - 9 Bioinformatics, Pharmacovigilance, and Intellectual Property: Understand bioinformatics tools and databases (PubMed, Scopus, etc.), pharmacovigilance for ASU drugs, and fundamentals of Intellectual Property Rights and TKDL for traditional knowledge preservation.
CO 10	CO - 10 Medical Statistics and Data Analysis in Ayurvedic Research: Utilize medical statistical tools and techniques, including data collection, descriptive and inferential statistics, hypothesis testing, regression analysis, and SPSS/GraphPad for Ayurvedic clinical and experimental research.

Course Outcomes (COs)
2nd & 3rd Year

Course: Fundamentals of Kayachikitsa

Course Outcomes	Statement
CO 1	CO - 1 Rogi-Roga Pariksha and Diagnostic Techniques: Demonstrate proficiency in Rogi-Roga Pariksha using Nidana Panchaka, Trividha, Ashtavidha, and Dashavidha Pariksha, and integrate modern clinical methods and diagnostic advancements.
CO 2	CO - 2 History Taking and Systemic Examination: Perform comprehensive history taking and systemic examination correlating Ayurvedic diagnostic principles with modern clinical practice.
CO 3	CO - 3 Interpretation of Modern Diagnostic Tests: Interpret common diagnostic tests such as ECG, TMT, Echo, Spirometry, X-Ray, USG.





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	CT, MRI, EEG, and EMG, in light of clinical symptomatology and Ayurvedic understanding.
CO 4	CO - 4 Principles and Application of Ayurvedic Chikitsa: Explain and apply types and principles of Chikitsa in Ayurveda, including Shodhana, Shamana, Rasayana, and Vajikarana, for disease prevention, management, and rejuvenation.
CO 5	CO - 5 Ayurveda in National Health Programmes: Understand and critically analyze National Health Programmes, recognizing the prospective role of Ayurveda in public healthcare, disease prevention, and rehabilitation.
CO 6	CO - 6 Medical Ethics, Legal Compliance, and Patient Safety: Follow medical ethics, laws, and regulations applicable to clinical practice, ensuring patient safety, confidentiality, and legal compliance in Ayurvedic and integrative medicine.
CO 7	CO - 7 Basic Medical Procedures: Exhibit competence in performing basic medical procedures like Ryle's tube feeding, catheterization, paracentesis, transfusions, and orthopedic tractions, integrating Ayurvedic therapeutic support.
CO 8	CO - 8 Ayurvedic Dietetics and Disease-Specific Nutrition: Apply the principles of Ayurvedic Dietetics, including Pathya, Apathya, and Anupana, in disease-specific dietary management and recovery promotion.
CO 9	CO - 9 Pharmacovigilance and Management of Drug Reactions: Recognize and manage drug-drug interactions, adverse drug reactions (ADRs), and iatrogenic disorders, while considering both Ayurvedic and modern pharmacovigilance.
CO 10	CO - 10 Holistic and Integrative Clinical Decision Making: Synthesize Ayurvedic and modern knowledge to enhance clinical judgment, patient care, and treatment outcomes, maintaining a holistic and patient-centered therapeutic approach.

Course: Samanya Roga Chikitsa

Course Outcomes	Statement
CO 1	CO - 1 Ayurvedic Understanding of Srotogata Vyadhi: Demonstrate deep understanding of Ayurvedic concepts of Srotogata Vyadhi, including Nidana, Samprapti, and Chikitsa Siddhanta of each affected Srotas system.
CO 2	CO - 2 Diagnosis and Management of Pranavaha Srotas Disorders: Diagnose and manage disorders of Pranavaha Srotas like Shwasa, Kasa, Hikka, and correlate with modern cardio-respiratory diseases such as COPD, Asthma, Pneumonia, and Heart diseases.
CO 3	CO - 3 Management of Annavaha Srotas Vikara: Identify and treat diseases of Annavaha Srotas such as Ajirna, Amlapitta, Grahani, and

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	relate them to modern gastrointestinal conditions like GERD, APD, and Malabsorption syndromes.
CO 4	CO - 4 Treatment Approaches for Udakavaha Srotas Disorders: Apply principles of Ayurvedic Nidana Parivarjana, Pathya-Apathya, Anupana, and Atyayika Chikitsa in the management of disorders like Trishna, Shotha, Udara, and electrolyte imbalances under Udakavaha Srotas.
CO 5	CO - 5 Management of Rasavaha and Raktavaha Srotas Disorders: Manage systemic inflammatory and hematological diseases under Rasavaha and Raktavaha Srotas, including Jwara, Amavata, Pandu, Kamala, Kushtha, Vatarakta, along with integration of knowledge of autoimmune, allergic, dermatological, and hepatic disorders.
CO 6	CO - 6 Treatment of Mamsa-Medovaha Srotas: Evaluate and treat metabolic and endocrine disorders under Mamsa-Medovaha Srotas such as Sthaulya (Obesity), Medoroga, and Prameha (Diabetes Mellitus) using Shamana, Shodhana, and lifestyle interventions.
CO 7	CO - 7 Ayurvedic Principles in Asthi-Majjavaha Srotas Vikara: Understand and apply Ayurvedic principles in Asthi-Majjavaha Srotas vikara such as Osteoarthritis, Asthikshaya, and Sandhigatavata, correlating with degenerative bone disorders.
CO 8	CO - 8 Management of Shukravaha Srotas: Analyze and address male reproductive disorders like Kalibya and Dwajabhanga under Shukravaha Srotas, using Ayurvedic aphrodisiacs, Rasayana and psychosomatic approaches.
CO 9	CO - 9 Ayurvedic Management of Mutravaha Srotas Vikara: Manage Mutravaha Srotas Vikara like Mutrakrichra, Mutraghata, Ashmari by combining Ayurvedic and conventional approaches to treat UTIs, renal stones, and renal failure.
CO 10	CO - 10 Treatment of Purishvaha Srotas Disorders: Treat Purishvaha Srotas disorders such as Atisara, Pravahika, Krimi, Udavarta, and modern GI disorders like IBS, Enteritis, Ulcerative colitis, using Panchakarma, classical formulations, and diet-regimens.

Course: Vishishta Roga Chikitsa

Course Outcomes	Statement
CO 1	CO - 1 Comprehensive Understanding of Vata Vyadhi and Neurological Correlates: Attain in-depth knowledge of Vata Vyadhi and their Ayurvedic classifications (e.g., Pakshavadha, Gridhrasi, Ardita), with correlation to modern neuromuscular and neurological disorders such as stroke, Parkinson's disease, and epilepsy.
CO 2	CO - 2 Diagnosis and Management of Infectious and Sexually Transmitted Diseases: Diagnose and manage infectious and sexually transmitted diseases (e.g., Sheetala, Masoorika, Syphilis) through





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	Ayurvedic protocols, along with awareness of conventional strategies and public health importance.
CO 3	CO - 3 Ayurvedic Approach to Manasa Vyadhi and Psychiatric Correlations: Demonstrate understanding of Manasa Vyadhi (Unmada, Apasmara, etc.) and correlate them with psychiatric disorders like schizophrenia, depression, anxiety, and psychosexual conditions for effective integrative care.
CO 4	CO - 4 Ayurvedic Management of Metabolic Disorders: Identify and treat metabolic disorders such as Gout, Atherosclerosis, Obesity, Dyslipidaemia using Ayurvedic principles like Ahara, Vihara, Shamana, Shodhana, and Rasayana Chikitsa.
CO 5	CO - 5 Endocrine Disorders: Ayurvedic and Modern Perspectives: Understand the Ayurvedic and modern management of endocrine disorders, including dysfunctions of pituitary, thyroid, adrenal, and reproductive hormones, using specific formulations and therapies.
CO 6	CO - 6 Management of Parasitic, Infective, and Communicable Diseases: Manage parasitic, infective, and communicable diseases such as Malaria, Dengue, HIV/AIDS, Rabies, Meningitis, using Ayurveda for prevention, immunity enhancement, and supportive treatment.
CO 7	CO - 7 Ayurvedic Insights into Neoplastic Disorders and Cancer Care: Explain Ayurvedic perspectives on neoplastic disorders, and discuss the role of Ayurveda in cancer care, focusing on immunity boosting, Rasayana therapy, and palliative care.
CO 8	CO - 8 Treatment of Autoimmune Disorders through Ayurvedic Principles: Evaluate and treat autoimmune disorders like SLE, Rheumatic fever, and myopathies, using Ayurvedic principles and immune-modulatory Rasayana drugs for long-term management.
CO 9	CO - 9 Poisoning Management: Vishachikitsa and Modern Emergency Care: Manage poisoning cases (e.g., snake bite, chemical, pesticide poisoning) with knowledge of Ayurvedic Vishachikitsa, along with modern emergency protocols.
CO 10	CO - 10 Ayurvedic Perspective on Janapadodhwamsa Vikara and Preventive Health Strategies: Understand Janapadodhwamsa Vikara (epidemics and environmental diseases) and explore their causation and treatment through Ayurveda's preventive and promotive health strategies.

Course: Advances In Kayachikitsa

Course Outcomes	Statement
CO 1	CO - 1 Critical Care and Emergency Management with Ayurvedic Integration: Demonstrate proficiency in the management of critical care and medical emergencies, including ICU protocols, triaging,





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	field medical services, and integration with Ayurvedic supportive therapy.
CO 2	CO - 2 Hospital Management and Institutional Coordination: Understand and contribute to hospital management strategies, including infrastructure planning, IT applications, manpower coordination, and patient care through effective institutional collaboration.
CO 3	CO - 3 Clinical Research in Kayachikitsa and Evidence-Based Practice: Analyze and interpret clinical research in Kayachikitsa and apply evidence-based Ayurvedic practices in the treatment of systemic and lifestyle disorders.
CO 4	CO - 4 Ayurvedic Management of Emerging Health Challenges: Apply Ayurvedic approaches in managing emerging health challenges like Dengue, Chikungunya, HIV/AIDS, Fibromyalgia, and syndromes of modern lifestyle and environment.
CO 5	CO - 5 Immuno-Modulation and Allergy Management in Ayurveda: Explain the role of Ayurveda in immuno-modulation and allergy management, including autoimmune diseases, and support preventive health through Rasayana therapies.
CO 6	CO - 6 Ethical and Clinical Aspects of Organ Transplantation: Understand the ethical, clinical, and legal aspects of organ transplantation, and recognize Ayurveda's potential in pre- and post-transplant care and rehabilitation.
CO 7	CO - 7 Geriatric and Terminal Care through Ayurveda: Develop a foundational knowledge in Geriatric and terminal care medicine, focusing on Ayurveda's role in age-related disease management, palliative care, and quality-of-life enhancement.
CO 8	CO - 8 Introduction to Gene and Stem Cell Therapies and Ayurvedic Correlations: Acquire basic understanding of gene therapy, stem cell therapy, chromosomal disorders, and explore future integrative applications with Ayurvedic concepts.
CO 9	CO - 9 Application of Diagnostic Markers in Kayachikitsa: Utilize knowledge of radio-isotopes, tumor markers, and disease markers in the diagnosis, prognosis, and assessment of therapy outcomes, with relevance to Kayachikitsa.
CO 10	CO - 10 Research and Innovation in Kayachikitsa and Allied Fields: Explore and engage in independent and collaborative research in Kayachikitsa, including emerging trends in Panchakarma, Rasayana, Vajikarana, and physical medicine & rehabilitation.

