

Program specific outcomes

Department of Anatomy

Generic Outcomes

To provide comprehensive knowledge of the gross and microscopic structure and development of the human body provide a basis for understanding the clinical correlation of organs of structures involved and the anatomical basis for the disease presentation.

Program Specific Outcomes (PSOs)-UG

PSO1-Understanding of the gross and microscopic structure and development of the human body

PSO2-Comprehension of normal regulation and integration of the functions of the organs and systems on the basis of structures.

PSO3-Understanding of the clinical correlation of organs and structures involved and interpret the anatomical basis of the disease presentations.

PSO4-To instill professionalism by developing communication, leadership skills with ethical and moral values

PSO5-To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

Program Specific Outcomes (PSOs)-PG

A post graduate student having qualified the MD (Anatomy) examination should be able to:

1. Acquire competencies in gross and surface anatomy, neuroanatomy, embryology, genetics, histology, radiological anatomy, applied aspects and recent advances of the above-mentioned branches of anatomy to clinical practice. These are given in detail in subsequent sections.
2. Acquire mastery in dissection skills, embalming, tissue preparation, staining and museum preparation.
3. Acquire skills in teaching, research methodology, epidemiology & basic information technology.
4. Acquire knowledge in the basic aspects of Biostatistics and research methodology.
5. Has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.

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6. Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (eg. PubMed, Medline, Cochrane reviews).
7. Acquire skills in paper & poster preparation, writing research papers and Thesis.
8. Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty.
9. Acquire attitude and communication skills to interact with colleagues, teachers and students.
10. Practicing different methods of teaching-learning
11. Demonstrate the ability to identify applied implications of the knowledge of anatomy and discuss information relevant to the problem, using consultation, texts, archival literature and electronic media.
12. Demonstrate the ability to correlate the clinical conditions to the anatomical/embryological/hereditary factors.
13. Demonstrate the ability to evaluate scientific/clinical information and critically analyze conflicting data and hypothesis.

Program Educational Objectives (PEOs)

PEO1-Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome

PEO2-Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the contemporary medicine.

PEO3-Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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Department of Physiology

Generic Outcomes

To provide comprehensive knowledge of normal functioning of various organ systems of the human body and to facilitate the understanding of physiological basis of health and diseases.

Program Specific Outcomes (PSOs)-UG

PSO1-Understanding the normal functioning of various organs and organ systems of the human body

PSO2-Understanding the patho-physiological basis of the disease

PSO3-Distinguish between normal and abnormal findings which he/she performed and observed during Physiology Practical

PSO4-To instill professionalism by developing communication, leadership skills with ethical and moral values

PSO5-To develop life-long learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

Program Specific Outcomes (PSOs)-PG

A post graduate student having qualified the MD (Physiology) examination should be able to

1. Understand and deal with all aspects of general, systemic and applied Physiology.
2. Teach effectively the basic physiological mechanisms of human body with reference to their implications in the pathogenesis of diseases (pathophysiology) affecting various organ systems and the physiological basis of their management to undergraduate medical, paramedical and all other basic science students.
3. Understand general principles of medical education (use of appropriate teaching techniques and resources).
4. Explain how the knowledge of physiology can be effectively used in a various clinical setting to solve diagnostic and therapeutic problems.
5. Interpret and evaluate research publications critically.
6. Use the library facilities (Literature database using computer, CD ROM, internet search and any other available newer techniques).

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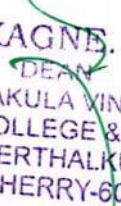
7. Conduct relevant clinical/experimental research which may have significant bearing on human health and patient care.
8. Interpret the research findings in the light of its basic and applied significance.
9. Acquire skills in conducting collaborative research in the field of physiology with allied sciences, clinical sciences and biomedical engineering.
10. Interact with the allied departments and render services in advanced laboratory investigations.
11. Serve as interface with society at large.
12. Acquire administrative skills to set up concerned department / laboratories and initiate purchase procedure and procure necessary items for running such laboratories.
13. Function as a member of a teaching or research team.

Program Educational Objectives (PEOs)

PEO1-Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome

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Department of Biochemistry

Generic Outcomes

To make the students understand the scientific basis of the life process at the molecular level and to orient them towards the application of the knowledge acquired in solving clinical problems.

Program Specific Outcomes (PSOs)-UG

PSO1-Understand the biochemical basis of health

PSO2-Understand the biochemical basis of diseases and their complications

PSO3-Understand the molecular aspects of cellular events

PSO4-Understand the genetic basis of diseases and their diagnosis

PSO5-Understand the nutritional importance of in health and diseases

PSO6-Understand the basis and rationale of Biochemical laboratory tests

PSO7-Demonstrate the ability to interpret the laboratory investigation results in clinical context

Program Specific Outcomes (PSOs)-PG

At the end of the MD training program in Biochemistry, the post graduate student should be able to:

1. Explain clearly concepts and principles of biochemistry and cell biology, including correlations of these with cellular and molecular processes involved in health and disease.
2. Develop skills as a self-directed learner, recognize continuing educational needs; use appropriate learning resources and critically analyze relevant published literature in order to practice evidence-based biochemistry.
3. Demonstrate competence in basic concepts of research methodology and epidemiology.
4. Effectively teach biochemistry to undergraduate students in medicine and allied health science courses to make them competent health care professionals.
5. Set up/supervise /manage a diagnostic laboratory in Biochemistry in a hospital, ensuring quality and reliable diagnostic service.
6. Develop the desired managerial and leadership skills and function as a productive member of a team engaged in health care, research and education.
7. Provide clinicians with consultation services for diagnostic tests in biochemistry and in interpretation of laboratory results.

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8. Demonstrate skills in documentation of reports.
9. Conduct Clinical and Molecular research which has an impact on the patient health care and treatment modalities.
10. Carry out a research project from planning to publication and be able to pursue academic interests and continue life-long learning to become more experienced in all the above areas and to eventually be able to guide postgraduates in their thesis work.

Program Educational Objectives (PEOs)

PEO1-Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome

PEO2-Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the contemporary medicine.

PEO3-Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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Department of Pathology

Generic Outcomes

To provide the students with a comprehensive knowledge of the mechanisms and causes of disease in order to enable him/her to achieve complete understanding of the natural history and clinical manifestations of disease.

Program Specific Outcomes (PSOs)-UG

PSO1: Comprehension of the causes, evolution and mechanisms of disease

PSO2: Knowledge of alterations in gross and cellular morphology of organs in disease states

PSO3: Ability to correlate the natural history and structural and functional changes with the clinical manifestations of diseases, their diagnosis and therapy

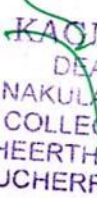
PSO4: Should be able to function as a team, develop an attitude of cooperation with colleague. Develop communication skill to convey the diagnosis.

PSO5: Update newer entities, recent classification and diagnostic methodology using problem-based learning

Program Specific Outcomes (PSOs)-PG

At the end of the MD training program in Pathology, the post graduate student should be able to

1. Diagnose routine histopathology (surgical& gynae) and cytopathology cases, blood and bone marrow examination and various tests of Laboratory Medicine (clinical pathology) as well as Blood Banking (Transfusion Medicine).
2. Interpret and correlate clinical and laboratory data so that clinical manifestations of diseases can be explained.
3. Advise on the appropriate specimens and tests necessary to arrive at a diagnosis in a problematic case.
4. Should be able to teach Pathology to undergraduates, postgraduates, nurses and paramedical staff including laboratory personnel.
5. Plan, execute, analyze and present research work.


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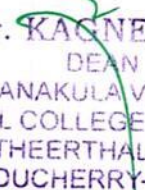
6. Make and record observations systematically and maintain accurate records of tests and their results for reasonable periods of time. Identify problems in the laboratory, offer solutions thereof and maintain a high order of quality control.
7. Should be familiar with the function, handling and routine care of equipment in the laboratory.
8. Able to collect specimens by routinely performing non-invasive out-patient procedure such as vein-puncture, finger-prick, fine needle aspiration of superficial lumps and bone-marrow aspirates and provide appropriate help to colleagues performing an invasive procedure such as a biopsy or an imaging guided biopsy.
9. Able to perform routine tests in a pathology Laboratory including grossing of specimens, processing, cutting of paraffin and frozen sections, making smears and staining.
10. Capable of safe and effective disposal of laboratory waste.
11. Able to supervise and work with subordinates and colleagues in a laboratory.
12. Should be able to function as a part of a team, develop an attitude of co-operation with colleagues and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion.
13. Always adopt ethical principles and maintain proper etiquette in dealing with patients, relatives and other colleagues to provide the best possible diagnosis or opinion.
14. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff and for effective teaching.

Program Educational Objectives (PEOs)

PEO1-Acquisition and transfer of knowledge, skills and attitude to undergraduate, postgraduate students and colleagues for quality care and outcome

PEO2-To do research, interpret, publish and disseminate the knowledge in improving the contemporary medicine.

PEO3-To collaborate and communicate with national and international networks to update and disseminate information related to modern medicine.


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Department of Microbiology

Generic Outcomes

To provide an understanding of the natural history of infectious disease in order to deal with the etiology, pathogenesis, laboratory diagnosis, treatment and control of the infections in the community.

Program Specific Outcomes (PSOs)-UG

PSO1-Understanding of role of microbial agents in health and disease

PSO2-Understanding of the immune pathological mechanisms in health and disease

PSO3-Ability to correlate the natural history, mechanisms and clinical manifestations of infectious diseases as they relate to the properties of microbial agents

PSO4-Knowledge of the principles of infection control measures and implementation

PSO5-An understanding of the basis of choice of laboratory diagnostic tests and their interpretation, antimicrobial therapy and communication

Program Specific Outcomes (PSOs)-PG

A post graduate student upon successfully qualifying in the MD (Microbiology) examination should be able to

1. Demonstrate competence as a clinical microbiologist.
2. Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations.
3. Demonstrate application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.
4. Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.

Program Educational Objectives (PEOs)

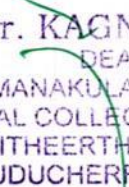
PEO1-Acquire knowledge, skills, and professionalism and transfer it to under graduate and post graduate students

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PEO2-Contribute to contemporary medicine by acquiring knowledge and skills in research and publishing

PEO3-Offer quality diagnostic services by practicing and collaborating with national quality control and accreditation agencies.

PEO4-To pursue specialization in various Microbiology branches like Infectious disease, Hospital infection control, Advanced Virology and Immunology.


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Department of Pharmacology

Generic Outcomes

To inculcate a rational and scientific basis of therapeutics

Program Specific Outcomes (PSOs)-UG

1. To inculcate the knowledge about pharmacologic basis of therapeutics and promote rational drug prescribing skills considering pharmacological properties, efficacy, safety, suitability and cost of medicines.
2. To develop a holistic approach towards a clinical condition by integrated teaching and improving skill in doctor patient communication
3. To understand the effect of drugs in animal models using computer assisted learning simulators
4. To develop clinical drug administration skills by various routes in a simulated environment
5. To develop and promote the ability to work in teams in order to improve group dynamics and develop leadership skills
6. To inculcate the ability to become a Self-directed and lifelong learner by allotting specific sessions for Self-directed learning

Program Specific Outcomes (PSOs)-PG

At the end of the MD training program in Pharmacology, the student should acquire competencies in the following areas:

1. The student should be able to explain clearly concepts and principles of Pharmacology and therapeutics.
2. The student should also be able to explain the drug development processes. He/ She should be able to explain Drugs and Cosmetics Act, in addition to clinical trial procedures.
3. The student should be able to effectively teach undergraduate students in medicine (MBBS) and allied health science courses (Dentistry and Nursing) so they become competent healthcare professionals and able to contribute to training of postgraduate trainees.

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4. The student should be able to carry out a research project (both basic and clinical) from planning to publication and be able to pursue academic interests and continue life-long learning to become more experienced in all the above areas.

Program Educational Objectives (PEOs)

PEO1-Attainment of knowledge, skills and attitude for rational use of medicines and evidence - based medicine

PEO2-Acquire, elucidate and translate knowledge and skills relevant in essential drug concept and pharmacovigilance

PEO3-Accomplishment of effective training on doctor-patient communication with empathy and ethics on all aspects of drug use

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Department of Forensic Medicine

Generic Outcomes

To produce a physician who is well informed about medico legal responsibilities in practice of medicine. He/she will also be capable of making observations and inferring conclusions by logical deductions to set enquiries on the right track in civil/criminal matters and connected medico legal problems. He/She acquires knowledge of law in relation to medical practice, medical negligence and respect for codes of medical ethics.

Program Specific Outcomes (PSOs)-UG

1. Understanding of medico-legal responsibilities of physicians in primary and secondary care settings.
2. Understanding of the rational approach to the investigation of crime, based on scientific and legal principles
3. Ability to manage medical and legal issues in case of poisoning / overdose.
4. Understanding the medico-legal framework of medical practice and medical negligence.
5. Understanding of codes of conduct and medical ethics.

Program Specific Outcomes (PSOs)-PG

A post graduate student, upon successfully qualifying in the M.D (Forensic Medicine) examination, should be able to

1. Become an expert in Forensic Medicine.
2. Identify and define medico-legal problems as they emerge in the community and work to resolve such problems by planning, implementing, evaluating and modulating Medico- legal services.
3. Undertake medico-legal responsibilities and discharge medico-legal duties in required settings.
4. Keep abreast with all recent developments and emerging trends in Forensic Medicine, Medical Ethics and the law.
5. Deal with general principles and practical problems related to forensic, clinical, emergency, environmental, medico-legal and occupational aspects of toxicology.
6. Deal with medico-legal aspects of Psychiatry, mental health and drug addiction.
7. Impart education in Forensic Medicine and Toxicology to under-graduate and post- graduate students with the help of modern teaching aids.
8. Assess the students' knowledge and skills in the subject of Forensic Medicine.
9. Oriented to research methodology and conduct of research in the subject.

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Department of Community Medicine

Generic Outcomes

To prepare the student to function in community and first level physician in accordance with institutional goal

Program Specific Outcomes (PSOs)-UG

1. Understanding of the concept of health, disease and its prevention.
2. Understanding of demography, population dynamics and disease burden in National and global context.
3. Comprehension of principles of epidemiology, health economics and health management and health care.
4. Understanding of physical, social, psychological, economic and environmental determinants of health and disease.
5. Ability to recognize and manage common health problems including physical, emotional and social aspects at individual family and community level in the context of national health programs.
6. Ability to recognize, investigate, report, plan and manage community health problems, nutritional disorders and emergencies.
7. To instil professionalism by developing communication, leadership skills with ethical and moral values
8. To develop the life-long learning behavior by acquiring and updating the existing knowledge and skills regularly for continuous professional development.

Program Specific Outcomes (PSOs)-PG

1. To create a skilled cadre of medical professionals having expertise in leadership and application of principles of Public Health, Community Medicine and applied epidemiology, contributing meaningfully in formulating National Health Policies & Programs with a systems approach for overall human development.
2. To standardize the teaching & training approaches at post- graduate level, for Community Medicine.
3. To formulate research questions, do literature search, conduct study with an appropriate study design and study tool; conduct data collection and management, data analysis and report.

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Department of Oto-Rhinolaryngology

Generic Outcomes

To provide adequate knowledge and skills for optimally dealing with common disorders and emergencies and principles of rehabilitation of the impaired hearing

Program Specific Outcomes (PSOs)-UG

- PSO 1 - Knowledge of the Oto -rhino- laryngological (ENT) emergencies and problems
- PSO 2 - Ability to recognize, diagnose and manage common problems in ENT and emergencies in ENT in primary care setting
- PSO 3 - Ability to examine ENT systematically and to perform simple ENT procedures as applicable in a primary care setting
- PSO 4 - Ability to recognize hearing impairment and refer to the appropriate hearing impairment rehabilitation program and following it up
- PSO 5 - Ability to diagnose refer to a referral center the cases of ENT, Head and neck malignancies and guiding them properly to get the appropriate treatment without time lag.
- PSO 6 - Attending the CME, undergoing hands on training on new techniques and implementing the procedures in the day-to-day practice
- PSO 7 - To develop the proper way of communicating the patient's attendee regarding the healthcare given for the terminally ill patients and about the potential outcomes of the treatments offered and also the availability of highly advanced recent techniques in the higher centers.
- PSO 8 - Detecting the SN hearing loss early in the newborn and guiding to get cochlear implant done in Tertiary health care center and the ability to explain about the rehabilitation methods available for the child after cochlear implant
- PSO 9 - The ability to organize public awareness program on cancer prevention by highlighting the causative factors like alcohol, tobacco and enquiring to quit those habits

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Program Specific Outcomes (PSOs)-PG

1. Practice his specialty ethically keeping in mind the requirement of the patient, community and people at large.
2. Demonstrate sufficient understanding of basic sciences related to his specialty and be able to integrate such knowledge in his Clinical practice.
3. Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)
4. Plan and advise measures for the promotive, preventive, curative and rehabilitative aspects of health and diseases in the specialty of ENT.
5. Should be able to demonstrate his cognitive skills in the field of ENT and its ancillary branches during the formative and summative evaluation processes.
6. Play the assigned role in the implementation of National Health Programs
7. Demonstrate competence in basic concepts of research methodology and writing thesis and research papers.
8. Develop good learning, communication and teaching skills.
9. Demonstrate sufficient understanding of basic sciences and the clinical applications related to the specialty to be able to integrate this knowledge into Clinical practice. Acquire in-depth knowledge in the subject including recent advances.
10. Demonstrate that he is fully conversant with the latest diagnostics & therapeutics available.

Program Educational Objectives (PEOs)

PEO1-Acquire basic knowledge, clinical applications and transfer the knowledge into clinical practice ethically and also attending the CME, undergoing hands on training on new techniques and implementing the procedures in the day-to-day practice.

PEO2-Able to explain about the Promotive, Preventive, curative and rehabilitative methods available in ENT.

PEO3-Ability to recognize hearing impairment and refer to the appropriate hearing impairment rehabilitation program and following it up

PEO4-Understanding the basic concepts of research methodology and ability to write thesis and publish research papers.

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PEO5-Ability to acquire good teaching and communication skills.

PEO6-Able to perceive and reflect the knowledge in ENT and other ancillary branches during the formative and summative evaluation.

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Department of Ophthalmology

Generic Outcomes

To provide knowledge and skills to the students that shall enable him to practice as a clinical and as a primary eye care physician and also to function effectively as a community health leader to assist in the implementation of National program for blindness and rehabilitation of the visually impaired.

Program Specific Outcomes (PSOs)-UG

- PSO1 - Knowledge of common conditions causing visual impairment in the community
- PSO2 - Ability to diagnose ocular emergencies and their need for referral
- PSO3 - To work as a team in treating common eye disease and in implementing national program as applicable in primary care setting
- PSO4 - Communicate effectively to patients about blindness and its prevention
- PSO5 - To develop lifelong learning attitude by acquiring and upgrading existing skills in common eye disease

Program Specific Outcomes (PSOs)-PG

1. The student should possess basic knowledge of the structure, function and development of the human body as related to ophthalmology, of the factors which may disturb these mechanisms and the disorders of structure and function which may result thereafter.
2. The student should be able to practice and handle most day-to-day problems independently in ophthalmology. The student should recognize the limitations of his/her own clinical knowledge and know when to seek further help.
3. The student should understand the effects of environment on health and be familiar with the epidemiology of at least the more common diseases in the field of ophthalmology.
4. The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.
5. The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.

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6. The student should also be made aware of Mobile Ophthalmic Unit and its working and components.
7. The student should be familiar with the current developments in Ophthalmic Sciences.
8. The student should be able to plan educational programmes in Ophthalmology in association with senior colleagues and be familiar with the modern methods of teaching and evaluation.
9. The student should be able to identify a problem for research, plan a rational approach to its solution, execute it and critically evaluate his/her data in the light of existing knowledge.
10. The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.
11. The student should have basic knowledge of medico-legal aspects of medicine.
12. The student should be familiar with patient counseling and proper consent taking.

Program Educational Objectives (PEOs)

PEO 1 – Acquisition and transfer of clinical knowledge, skills and professionalism to undergraduates and post graduate students for better quality care.

PEO 2 – Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving the field of Ophthalmology.

PEO 3 – Coordinate, communicate and collaborate with national and international networks to update and disseminate information related to human well being

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Department of General Medicine

Generic Outcomes

To impart knowledge, skills and behavioral attributes to function effectively as the first contact physician.

Program Specific Outcomes (PSOs)-UG

1. Demonstrate understanding of the patho-physiologic basis, epidemiological profile, signs and symptoms of disease and their investigation and management.
2. Competently interview and examine an adult patient and make a clinical diagnosis.
3. Appropriately order and interpret laboratory tests.
4. Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions, medical interventions required and preventive measures.
5. Manage common medical emergencies and refer when required.

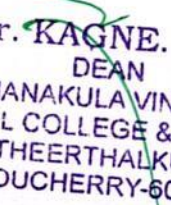
Program Specific Outcomes (PSOs)-PG

The postgraduate training should enable the student to:

1. Practice efficiently internal medicine specialty, backed by scientific knowledge including basic sciences and skills.
2. Diagnose and manage majority of conditions in his specialty clinically and with the help of relevant investigations.
3. Exercise empathy and a caring attitude and maintain professional integrity, honesty and high ethical standards.
4. Plan and deliver comprehensive treatment using the principles of rational drug therapy.
5. Plan and advice measures for the prevention and rehabilitation of patients belonging to his specialty.

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6. Manage emergencies efficiently by providing Basic Life Support (BLS) and Advanced Life Support (ALS) in emergency situations.
7. Recognize conditions that may be outside the area of the specialty/ competence and refer them to an appropriate specialist.
8. Demonstrate skills in documentation of case details including epidemiological data.
9. Play the assigned role in the implementation of National Health Programs.
10. Demonstrate competence in basic concepts of research methodology and clinical epidemiology; and preventive aspects of various disease states.
11. Be a motivated 'teacher' – defined as one keen to share knowledge and skills with a colleague or a junior or any learner.
12. Continue to evince keen interest in continuing education irrespective of whether he/she is in a teaching institution or is practicing and use appropriate learning resources.
13. Be well versed with his medico-legal responsibilities.
14. Undertake audit, use information technology tools and carry out research – both basic and clinical, with the aim of publishing the work and presenting the work at scientific forums.
15. The student should be able to recognize the mental condition characterized by self-absorption and reduced ability to respond to the outside world (e.g. Autism), abnormal functioning in social interaction with or without repetitive behavior and/or poor communications, etc.


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Department of Pediatrics

Generic Outcomes

To acquire adequate knowledge and appropriate skills for optimally dealing with major health problems of children and to ensure their optimal growth and development.

Program Specific Outcomes (PSOs)-UG

1. Ability to assess and promote optimal growth, development and nutrition of children and adolescents and identify deviations from normal
2. Ability to recognize and provide emergency and routine ambulatory and first level referral unit care for neonates, infants, children and adolescents and refer as may be appropriate
3. Ability to recognize children with special needs and refer appropriately
4. Ability to participate in National programs related to child health and in conformation with the Integrated Management of Neonatal and Childhood Illnesses (IMNCI) strategy
5. To instill professionalism by developing communication, leadership skills, ethical and moral values
6. To develop lifelong learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

Program Specific Outcomes (PSOs)-PG

The objectives of MD Course in Paediatrics are to produce a competent pediatrician who:

1. Recognizes the health needs of infants, children and adolescents and carries out professional obligations in keeping with principles of the National Health Policy and professional ethics.
2. Has acquired the competencies pertaining to Paediatrics that are required to be practiced in the community and at all levels of health system.
3. Has acquired skills in effectively communicating with the child, family and the community.

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4. Is aware of contemporary advances and developments in medical sciences as related to child health.
5. Is oriented to principles of research methodology.
6. Has acquired skills in educating medical and paramedical professionals.
7. Ability to recognize children with special needs and to collaborate with other departments for their better outcome.
8. Has developed knowledge in recognizing actually ill child and provide them emergency care.
9. Ability to perform procedures as indicated for children of all ages in the primary care setting.

Program Educational Objectives (PEOs)

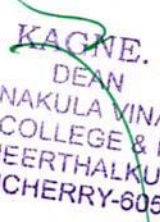
PEO1-Acquires competencies relevant to all aspects of Pediatrics that are essential to function as a clinical expert in providing holistic health care from newborn to adolescence for the community at all levels.

PEO2-Performs responsibilities of the provision of clinical care in keeping with the principles of National Health Policy in a professional and ethical manner

PEO3-Acquires skills in effectively communicating not only with the health team but also with the child, family, and the community

PEO4-Is oriented to principles of research methodology, enabling critical appreciation of published scientific evidence and keeping oneself up to date and disseminate scientific advances in Paediatrics and medico-legal aspects of practice

PEO5-Acquires skills and understanding of dealing with health team members, enabling system-based practice.


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Department of Obstetrics & Gynecology

Generic Outcomes

To provide understanding of anatomy, physiology and patho physiology of the reproductive system and gain the ability to optimally manage common conditions affecting it.

Program Specific Outcomes (PSOs)-UG

PSO1-Understand the physiology of pregnancy, growth and development of fetus; Provide preconceptional counseling and antenatal care; Conduct a normal delivery and manage normal puerperium

PSO2-Identify and manage high risk pregnancies, abnormal labour including operative vaginal delivery and complications of puerperium

PSO3-Prescribe drugs safely and appropriately in pregnancy and lactation; To explain importance of birth spacing, to counsel and support couples in correct choice of contraception

PSO4-Understand the anatomy and physiology of female reproductive organs; Identify and provide management for common gynaecological conditions including malignancies and evaluation of infertile couple

PSO5-To understand demographics and vital statistics; Screening and counselling for prevention of gynaecological malignancies

PSO6-To enhance lifelong learning behavior by updating existing knowledge and clinical skills by self-directed learning, reflective writing, preparation and presentation of seminars

Program Specific Outcomes (PSOs)-PG

1. Provide quality care to the community in the diagnosis and management of Antenatal, Intra-natal and post-natal period of normal and abnormal pregnancy and labor.
2. Provide effective and adequate care to a pregnant woman with complicated pregnancy.
3. Provide effective and adequate care to a normal and high-risk neonate.
4. Perform obstetrical ultrasound in normal and abnormal pregnancy including Doppler.
5. Manage effectively all obstetrical and gynecological emergencies and if necessary, make appropriate referrals.

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6. Provide quality care to the community in the diagnosis and management of gynaecological problems including screening, and management of all gynecological cancers including during pregnancy.
7. Conduct a comprehensive evaluation of infertile couple and have a broad based knowledge of assisted reproductive techniques including – ovulation induction, in vitro fertilization and intracytoplasmic sperm injection, gamete donation, surrogacy and the legal and ethical implications of these procedures.
8. Provide counseling and delivery of fertility regulation methods including reversible and irreversible contraception, emergency contraception etc.
9. Provide quality care to women having spontaneous abortion or requesting Medical Termination of Pregnancy (MTP) and manage their related complications.

Program Educational Objectives (PEOs)

PEO1 Acquisition and transfer of knowledge, skills, attitude and professionalism to undergraduate and postgraduate students for quality care and outcome

PEO2 Acquire, conduct, interpret, publish and translate knowledge and skills relevant in improving our field.

PEO3 Frequent updation of knowledge and skills and implementing it in the practice.

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Department of Surgery

Generic Outcomes

To produce graduate capable of delivering first contact surgical care

Program Specific Outcomes (PSOs)-UG

1. Understanding of the structural and functional basis, principles of diagnosis and management of common surgical problems in adults and children.
2. Ability to apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice.
3. Ability to perform common diagnostic and surgical procedure at the primary care level.
4. Ability to recognize, resuscitate, stabilize and provide advanced life support to patients following trauma.
5. Ability to administer informed consent and counsel patient prior to surgical procedures.

To instill professionalism by developing communication, leadership skills, ethical and moral values

6. To develop lifelong learning behavior by acquiring and updating existing knowledge and skills regularly for continuous professional development

Program Specific Outcomes (PSOs)-PG

At the end of postgraduate training, the PG student should be able to:

1. Diagnose and appropriately manage common surgical ailments in a given situation.
2. Provide adequate preoperative, post-operative and follow-up care of surgical patients.
3. Identify situations calling for urgent or early surgical intervention and refer at the optimum time to the appropriate centers.
4. Counsel and guide patients and relatives regarding need, implications and problems of surgery in the individual patient.
5. Provide and co-ordinate emergency resuscitative measures in acute surgical situations including trauma.
6. Organize and conduct relief measures in situations of mass disaster including triage.

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7. Effectively participate in the National Health Programs especially in the Family Welfare Programs.
8. Discharge effectively medico-legal and ethical responsibilities and practice his specialty ethically.
9. Must learn to minimize medical errors.
10. Must update knowledge in recent advances and newer techniques in the management of the patients.
11. Must learn to obtain informed consent prior to performance of operative procedure.
12. Perform surgical audit on a regular basis and maintain records (manual and/or electronic) for life.
13. Participate regularly in departmental academic activities by presenting Seminar, Case discussion, Journal Club and Topic discussion on weekly basis and maintain logbook.
14. Demonstrate sufficient understanding of basic sciences related to his specialty.
15. Plan and advise measures for the prevention and rehabilitation of patients belonging to his specialty.
16. Know the basic concepts of research methodology, plan a research project and know how to consult library.
17. Should have basic knowledge of statistics.
18. The student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.
19. The student will show integrity, accountability, respect, compassion and dedicated patient care. The student will demonstrate a commitment to excellence and continuous professional development.
20. The student should demonstrate a commitment to ethical principles relating to providing patient care, confidentiality of patient information and informed consent.
21. The student should show sensitivity and responsiveness to patients' culture, age, gender and disabilities.

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Department of Orthopedics

Generic Outcomes

To diagnose and manage common orthopedic problems.

Program Specific Outcomes (PSOs)-UG

1. Ability to recognize and assess bone injuries, dislocation and poly-trauma and provide first contact care prior to appropriate referral.
2. Knowledge of the medico-legal aspects of trauma.
3. Ability to recognize and manage common infections of bone and joints in the primary care setting.
4. Recognize common congenital, metabolic, neoplastic, degenerative and inflammatory bone diseases and refer appropriately.
5. Ability to perform simple orthopaedic techniques as applicable to a primary care setting.
6. To foster professionalism by adopting ethical and moral principles in all aspects of practice by developing good communication and leadership skills
7. To develop life-long learning behaviors by acquiring and updating existing knowledge and skills regularly for continuous professional development.

Program Specific Outcomes (PSOs)-PG

At the end of postgraduate training, the PG student should be able to:

1. Diagnose and appropriately manage common orthopedic conditions which present to OPD.
2. Demonstrate sufficient understanding of basic sciences relevant to orthopedic specialty.
3. Participate in decision making of a preoperative case.
4. Provide adequate preoperative, post operative & follow up care for orthopedic patients.
5. Perform minor orthopedic procedures to acceptable standards.
6. Effectively assist in major orthopedic surgeries or perform them under guidance.

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7. Function as part of a team and develop an attitude of co-operation with colleagues and other departments.
8. Interact to patients with proper etiquette, ethics and empathy.
9. Develop communication skills to report professional opinion to patients, relatives, peers, and paramedical staff and teach undergraduate students.
10. Identify a problem, prepare research protocol, collect patient's data, analyse and interpret results and discuss the findings as part of dissertation and other research projects.
11. Know basic research methodology, statistics relevant to orthopedics.
12. Demonstrate adequate knowledge in medico-legal aspects of orthopedic practice.
13. Provide and co-ordinate with other departments in emergency resuscitation of patients.
14. Organize and conduct relief measures in situations of natural calamities or mass disasters including triage.
15. Update the recent advances in orthopedic sciences for better patient care.
16. Explain patients the complications of treatment methods and obtain informed consent for surgical procedures.
17. Perform surgical audit, maintain records, conduct seminars, journal clubs and other educational activities and maintain a logbook.
18. Plan and advice measures on prevention and rehabilitation of orthopedic patients.
19. Develop leadership qualities, in handling complex situations, training medical and paramedical & general public.
20. Demonstrate sensitivity to patient's culture, age, gender & disabilities; possess commitment to ethical principles and confidentiality in relation to patient care.
21. Demonstrate commitment to identify short comings & improve oneself to the highest standards of orthopedic practice.

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Department of Radiology

Generic Outcomes

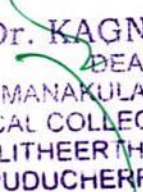
To make students realize the basic need of various radio-diagnostic tools in medical practice. They should be aware of the techniques required to be undertaken in different situations for the diagnosis of various ailments as well as during prognostic estimations.

Program Specific Outcomes (PSOs)-UG

1. Understanding of indications for various radiological investigations in common clinical practice.
2. Ability to identify abnormalities in common radiological investigations.
3. Awareness of the ill effects of radiation and various radiation protective measures to be employed.

Program Specific Outcomes (PSOs)-PG

The objective of the program is to train a student to become a skilled and competent radiologist to conduct and interpret various diagnostic/interventional imaging studies (both conventional and advanced imaging), to organize and conduct research and teaching activities and be well versed with medical ethics and legal aspects of imaging/ intervention.


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Department of Dermatology

Generic Outcomes

To impart knowledge and skills that may enable the students to diagnose and treat common disorders and refer rare diseases or complications/unusual manifestations of common diseases in Dermatology, Venereology and Leprosy.

Program Specific Outcomes (PSOs)-UG

1. Understanding of the principles in diagnosis in diseases of the skin, hair, nail and mucosa.
2. Ability to recognize, diagnose , order appropriate investigations and treat common diseases of the skin including leprosy in primary care setting and refer as appropriate.
3. A syndromic approach to the recognition, diagnosis, prevention, counseling, testing and management of common sexually transmitted diseases including HIV based on national health priorities.
4. Ability to recognize and treat dermatological emergencies including drug reactions and refer as appropriate.

Program Specific Outcomes (PSOs)-PG

At the end of 3 years of post-graduate training in Dermatology, Venereology & Leprosy.

1. Student should have knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to Dermatology, Venereology & Leprosy.
2. The Student should acquire in-depth knowledge of his subject including recent advances.
3. The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.
4. Student should have acquired practical and procedural skills related to the subject.
5. Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.

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Department of Anesthesia

Generic Outcomes

To understand basic principles in anesthesiology and its usage in clinical practice.

Program Specific Outcomes (PSOs)-UG

1. The students should have a fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Statistics and Physics) as applied to Anaesthesia. He / She should be fully conversant with the bedside procedures (diagnostic and therapeutic) and have knowledge of latest diagnostics and therapeutic procedures.
2. The student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students. The student should be familiar with the latest teaching (computer and power point presentations) modes including simulators training and evidence based medical education.
3. The students should develop attitude that leads to appropriate communication with colleagues to function in a group in a group in Operating room /Intensive Care Unit and develop the ability to function as a leader in the operating room.

Program Specific Outcomes (PSOs)-PG

1. Postgraduate course requires the student to have fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Statistics and Physics) as applied to Anaesthesia. He/she should be fully conversant with the bedside procedures (diagnostic and therapeutic) and have knowledge of latest diagnostics and therapeutics procedures.
2. The student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students. The student should be familiar with the latest teaching (computer and power point presentation) modes including simulators training and evidence based medical education.
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Department of Psychiatry

Generic Outcomes

To impart knowledge and skills that may enable him/her to diagnose and treat common psychiatric disorders, handle psychiatric emergencies and to refer complications/unusual manifestations of common disorders and rare psychiatric disorders to the specialist.

Program Specific Outcomes (PSOs)-UG

1. Comprehensive nature and development of different aspects of normal human behavior like learning, motivation, personality & intelligence;
2. Recognize difference between normal and abnormal behavior;
3. Classify psychiatric disorders;
4. Recognize clinical manifestations of the following common syndromes and plan their appropriate management of organic psychosis, functional psychosis, schizophrenia, affective disorders, neurotic disorders, personality disorders, psycho-physiological disorders, drug and alcohol dependence, psychiatric disorders of childhood and adolescence;
5. Describe rational use of different modes of therapy in psychiatric disorders.
6. Ability to promote mental health and mental hygiene,
7. Knowledge of etiology (bio-psycho-social-environmental interactions), clinical features, diagnosis and management of common psychiatric disorders across all ages,
8. Ability to recognize and manage common psychological and psychiatric disorders in a primary care setting, institute preliminary treatment in disorders difficult to manage, and refer appropriately,
9. Ability to recognize alcohol/ substance abuse disorders and refer them to appropriate centers.
10. Ability to assess risk for suicide and refer appropriately.
11. Ability to recognize temperamental difficulties and personality disorders.
12. Assess mental disability and rehabilitate appropriately.

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13. Understanding of National and State programs that address mental health and welfare of patients and community.
14. The teaching should be aligned and integrated horizontally and vertically in order to allow the student to understand bio-psycho-social-environmental interactions that lead to diseases/disorders for preventive, promotive, curative, rehabilitative services and medico-legal implications in the care of patients both in family and community.

Program Specific Outcomes (PSOs)-PG

At the end of the MD course in Psychiatry, the student should have able to:

1. Understand the relevance of mental health in relation to the health needs of the country
2. Ethical considerations in the teaching and practice of Psychiatry
3. Identify the social, economic, biological and emotional determinants of mental health
4. Identify the environmental causes as determinants of mental health
5. Institute appropriate diagnostic, therapeutic and rehabilitative procedures to the mentally ill patient
6. Take detailed history, conduct appropriate ethically valid physical examination and institute appropriate evaluation procedures to make a correct clinical diagnosis
7. Perform relevant investigative and therapeutic procedures for the psychiatric patient
8. Recommend appropriate laboratory and imaging examinations and interpret the results correctly
9. Plan and deliver comprehensive treatment to a psychiatric patient using principles of rational drug therapy
10. Plan rehabilitation of psychiatric patient suffering from chronic illness
11. Clinically manage psychiatric emergencies efficiently
12. Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities
13. Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving psycho-education to patients, families and communities
14. Develop appropriate skills to practice evidence-based psychiatry

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15. Demonstrate competence in basic concepts of research methodology and epidemiology
16. Be aware of and take appropriate steps in the implementation of national mental health programs, effectively and responsibly
17. Be aware of the concept of essential drugs and rational use of drugs
18. Be aware of the legal issues in the practice of Psychiatry
19. Be aware of the special requirements in the practice of Child and adolescent Psychiatry and Geriatric Psychiatry

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Department of Pulmonary Medicine/Tuberculosis and Respiratory Diseases

Generic outcome

To impart knowledge and clinical skills that may enable the students to diagnose and manage common respiratory diseases and to handle respiratory emergencies.

Program Specific Outcome

1. Knowledge of common respiratory diseases, their clinical manifestations, diagnosis and management.
2. Ability to recognize, diagnose and manage pulmonary tuberculosis as contemplated in National Tuberculosis Control program.
3. Ability to manage common respiratory emergencies in primary care setting and refer appropriately.

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