

SUMANDEEP VIDYAPEETH

An Institution Deemed to be University u/s 3 and 12B of UGC Act 1956
Accredited by NAAC with a CGPA of 3.53 on a Four Point Scale at 'A' Grade
Category - I Deemed to be University under UGC Regulation 2018

At & Post: Piparia, Taluka: Waghodia, District: Vadodara, Gujarat State, INDIA. Pin: 391760

Phone: +91 2668 245262/64/66. E-mail ID: registrar@sumandeepvidyapeethdu.edu.in Website: www.sumandeepvidyapeethdu.edu.in

PROGRAM And COURSE OUTCOME

Attested CTC

Charaney
15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University
Vill. Piparia, Taluka: Waghodia.
Dist. Vadodara-391 760. (Gujarat)

SMT. B. K SHAH MEDICAL INSTITUTE AND RESEARCH CENTER

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PROGRAM NAME: Bachelor of Medicine and Bachelor of Surgery (MBBS)

PROGRAM OUTCOME (M.B.B.S.)

The undergraduate medical education program is designed with a goal to create an "Indian Medical Graduate" (IMG) possessing requisite knowledge, skills, attitudes, values and responsiveness, so that she or he may function appropriately and effectively as a physician of first contact of the community while being globally relevant.

PROGRAM SPECIFIC OUTCOMES (M.B.B.S.)

At the end of undergraduate program, the Indian Medical Graduate should be able to:

- Recognize "health for all" as a national goal and health right of all citizens and by undergoing training for medical profession fulfill his/her social obligations towards realization of this goal.
- Learn every aspect of National policies on health and devote herself/himself to its practical implementation.
- Achieve competence in practice of holistic medicine, encompassing promotive, preventive, curative and rehabilitative aspects of common diseases.
- Develop scientific temper, acquire knowledge and educational experience for proficiency in profession and promote healthy living.
- Become exemplary citizen by observance of medical ethics and fulfilling social and professional obligations, so as to respond to national aspirations.
- Be competent in diagnosis and management of common health problems of the individual and the community, commensurate with his/her position as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations.
- Be competent to practice preventive, promotive, curative and rehabilitative medicine in respect to the commonly encountered health problems.
- Appreciate rationale for different therapeutic modalities, be familiar with the administration of the "essential drugs" and their common side effects.
- Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
- Be familiar with the basic factors which are essential for the implementation of the National Health Programs including practical aspects.
- Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, General and hospital management, principal inventory skills and counseling.
- Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating outcome of such measures.
- Be able to work as a leading partner in health care teams and acquire proficiency in communication skills.
- Be competent to work in a variety of health care settings.

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- Have personal characteristics and attitudes required for professional life including personal integrity, sense of responsibility and dependability and ability to relate to or show concern for other individuals.
- Become a clinician who understands and provides preventive, promotive, curative, palliative and holistic care with compassion.
- Become a Leader and member of the health care team and system with capabilities to collect analyze, synthesize and communicate health data appropriately.
- Become a Communicator with patients, families, colleagues and community.
- Become a Lifelong learner committed to continuous improvement of skills and knowledge.
- Become a Professional, who is committed to excellence, is ethical, responsive and accountable to patients, community and profession.

COURSE OUTCOME

MBBS (First Year)

Human Anatomy (Theory & Practical)

- At the end of the course the student should be able to comprehend knowledge of the gross and microscopic structure and development of human body to provide a basis for understanding the clinical correlation of organs or structures involved and the anatomical basis for the disease presentation.

Human Physiology (Theory & Practical)

- After completion of this course the student should be able to comprehend knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

Biochemistry (Theory & Practical)

- After finishing of this course student should be able to make them understand the scientific basis of the life processes at the molecular level and to orient them towards the application of the knowledge acquired in solving clinical problems.

MBBS (Second Year)

Pathology (Theory & Practical)

- After the finale of this course the students will come to know the 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.

Microbiology (Theory & Practical)

- After curtaining of this course, the students will be able 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 infections in the community.

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Pharmacology (Theory & Practical)

- After wrapping of this course, the students will come to know the theoretical and practical fundamentals of components of a rational and scientific basis of therapeutics.

MBBS (Third First Year)

Forensic Medicine Including Toxicology (Theory & Practical)

- After the winding up of this course the students will come to know to produce a physician who is well informed about medicolegal 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 criminal matters and connected medicolegal problems. He/She acquires knowledge of law in relation to medical practice, medical negligence and respect for codes of medical ethics.

Community Medicine (Theory & Practical)

- After ceasing of this course undergraduate students in Community Medicine is to prepare them to function as community and first level physicians in accordance with the institutional goals. Develop capabilities of synthesis between cause of illness in the environment or community and individual health and respond with leadership qualities to institute remedial measures for this.

Oto-Rhino-Laryngology (Theory & Practical)

- After completion of this course in Otorhinolaryngology, the undergraduate student have acquired adequate knowledge and skills for optimally dealing with common disorders and emergencies and principles of rehabilitation of the impaired hearing.

Ophthalmology (Theory & Practical)

- After completing of this course in ophthalmology, the goal is to provide such 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 Programme for the prevention of blindness and rehabilitation of the visually impaired.

MBBS (Third Final Year)

Medicine (Theory & Practical)

- After completion of this course, the broad goal of the teaching of undergraduate students in Medicine is to have the knowledge, skills and behavioral attributes to function effectively as the first

Surgery (Theory & Practical)

- At the end of this course, the broad goal of the teaching of undergraduate students in Surgery is to produce graduates capable of delivering efficient first contact surgical care.

Pediatrics (Theory & Practical)

- After completion of this course, The broad goal of the teaching of undergraduate students in Pediatrics is to acquire adequate knowledge and appropriate skills for optimally dealing with major health problems of children to ensure their optimal growth and development.

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Psychiatry (Theory & Practical)

- At the end of this course, the undergraduate student in psychiatry is to impart such knowledge and skills that may enable him 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.

Dermatology and Sexually Transmitted Diseases (Theory & Practical)

- After completion of this course, the undergraduate student in Dermatology, S.T.D. and Leprology is to impart such knowledge and skills that may enable him to diagnose and treat common ailments and to refer rare diseases or complications/unusual manifestations of common diseases, to the specialist.

Orthopedics (Theory & Practical)

- After finishing of this course, the student should be able to explain the principles of recognition of bone injuries and dislocation and apply suitable methods to detect and manage common infections of bones and joints.

Radiodiagnosis & Imaging: (Theory & Practical)

- After completion of this course, the undergraduate medical students in the field of Radio-diagnosis shall be able to 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.

Obstetrics and Gynecology (Theory & Practical)

- At the end of this course, the broad goal of the teaching of undergraduate students in Obstetrics and Gynecology is that he/she should acquire understanding of anatomy, physiology and pathophysiology of the reproductive system and gain the ability to optimally manage common conditions affecting it.

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PROGRAM NAME: DOCTOR OF MEDICINE (M.D) PROGRAMS

PROGRAMME OUTCOME (MD)

The purpose of MD education is to create specialists who would provide high quality health care and advance the cause of science through research & training. The goal of postgraduate medical education shall be to produce competent specialists and/or Medical teachers.

PROGRAMME SPECIFIC OUTCOME (MD)

- Scholars shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy.
- Scholars shall have acquired the basic skills in teaching of the medical and paramedical professionals.
- Practice the specialty concerned ethically and in step with the principles of primary health care.
- Demonstrate sufficient knowledge of the basic sciences relevant to the concerned specialty.
- Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.

COURSE OUTCOME

MD (Anatomy)

After completing the three years course in MD Anatomy the student shall achieved competence in the following:

- Acquire basic knowledge 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.
- Acquire skills in dissection skills, embalming, tissue preparation, staining and museum preparation.
- Acquire skills in teaching, research methodology, epidemiology & basic information technology.
- Acquire knowledge in the basic aspects of Biostatistics and research methodology.
- Has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.
- Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (e.g. PubMed, Medline, Cochrane reviews).
- Acquire skills in paper & poster preparation, writing research papers and Thesis.
- Develop honest work ethics and empathetic behavior with students and colleagues.

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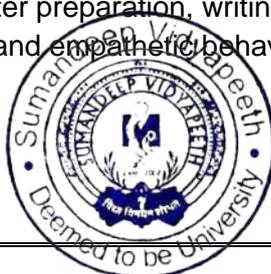
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- Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty.
- Acquire attitude and communication skills to interact with colleagues, teachers and students.
- Practicing different methods of teaching-learning. Making presentations of the subject topics and research outputs.
- 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. Demonstrate the ability to correlate the clinical conditions to the anatomical /embryological /hereditary factors.
- Demonstrate the ability to evaluate scientific/clinical information and critically analyze conflicting data and hypothesis.

MD (Biochemistry)

At the end of the MD training Programme in Biochemistry, the post graduate student shall acquire competencies in the following areas, as detailed below:

- Scholars shall able to explain clearly concepts and principles of biochemistry and acquire knowledge of cell biology, including correlations of these with cellular and molecular processes involved in health and disease.
- Scholars shall acquire basic skill to teach undergraduate students in medicine and allied health science courses so they become competent health care professionals and able to contribute to training of postgraduate post graduate students.
- Scholars shall acquire basic skill to set up/supervise/manage a diagnostic laboratory in Biochemistry in a hospital, ensuring quality control, and providing a reliable support service.
- The student should be able to provide clinicians with consultation services for diagnostic tests in biochemistry and in interpretation of laboratory results.
- The student should be able to 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.

MD (Physiology)

A post graduate student having qualified the MD (Physiology) examination shall achieved to:

- 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.
- Understand and deal with all aspects of general, systemic and applied Physiology.
- Understand general principles of medical education (use of appropriate teaching techniques and resources).
- Explain how the knowledge of physiology can be effectively used in a various clinical settings to solve diagnostic and therapeutic problems.
- Interpret and evaluate research publications critically.

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- Use the library facilities (Literature database using computer, CD ROM, internet search and any other available newer techniques).
- Conduct relevant clinical/experimental research which may have significant bearing on human health and patient care.
- Interpret the research findings in the light of its basic and applied significance.
- Acquire skills in conducting collaborative research in the field of physiology with allied sciences, clinical sciences and biomedical engineering.
- Interact with the allied departments and render services in advanced laboratory investigations.
- Serve as interface with society at large.
- Acquire administrative skills to set up concerned department / laboratories and initiate purchase procedure and procure necessary items for running such laboratories.
- Function as a member of a teaching or research team.

MD (Microbiology)

A post graduate student upon successfully qualifying in the MD (Microbiology) examination shall achieved expertise to

- Demonstrate competence as a clinical microbiologist.
- Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations
- Demonstrate and acquire knowledge about application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.
- Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.
- Acquire skills in conducting collaborative research in the field of Microbiology and allied sciences.
- Conduct such clinical/experimental research as would have significant bearing on human health and patient care
- Demonstrate effective communication skills required for the practice of clinical microbiology and while teaching undergraduate students
- Establish good clinical microbiological services in a hospital and in the community in the fields of bacteriology, virology, parasitology, immunology and mycology.
- Plan, execute and evaluate teaching assignments in Medical Microbiology.
- Plan, execute, analyze and present the research work in medical microbiology.
- To acquire various skills for collaborative research.
- To participate in various workshops/seminars/journal clubs/demonstration in the allied departments
- Uphold the prestige of the discipline amongst the fraternity of doctors.

Attested CTC MD (Pharmacology)

At the end of the MD training programme in Pharmacology, the student shall acquire competencies in the following areas:

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- Scholars have basic knowledge of concepts and principles of Pharmacology and therapeutics. The student should also be able to explain the drug development processes. S/he should be able to explain Drugs and Cosmetics Act, in addition to clinical trial procedures.
- The student shall learn basic skill to 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.
- 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 and to eventually be able to guide postgraduates in their thesis work.

MD (Pathology)

A post graduate student upon successfully qualifying in the MD (Pathology) examination shall acquire the following broad theoretical competencies and should be:

- Capable of offering a high-quality diagnostic opinion in a given clinical situation with an appropriate and relevant sample of tissue, blood, body fluid, etc. for the purpose of diagnosis and overall wellbeing of the ill.
- Able to teach and share his knowledge and competence with others. The student should be imparted training in teaching methods in the subject which may enable the student to take up teaching assignments in Medical Colleges/Institutes.
- Capable of pursuing clinical and laboratory-based research. He/she should be introduced to basic research methodology so that he/she can conduct fundamental and applied research.
- The student shall follow the objectives like integrity, accountability, respect, compassion and dedicated patient care. The student will demonstrate a commitment to excellence and continuous professional development.
- The student should demonstrate a commitment to ethical principles relating to providing patient care, confidentiality of patient information and informed consent.
- The student should show sensitivity and responsiveness to patients' culture, age, gender and disabilities.
- The student should have acquired skills such as Surgical pathology, cytopathology, hematology, laboratory medicine, transfusion medicine and immunohistochemistry.

MD (Social and Preventive Medicine / Community Medicine)

At the end of the course the student shall acquire competencies in the following areas

- Basic knowledge in application of principles of Public Health, Community Medicine and applied epidemiology, contributing meaningfully in formulating National Health Policies & Programmes with a systems approach for overall human development.
- Scholars acquire basic skill to standardize the teaching & training approaches at post-graduate level, for Community Medicine
- Research: 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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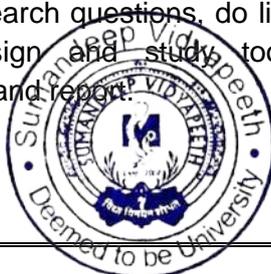
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MD (General Medicine)

The postgraduate training shall acquire competencies in the following areas

- Practice efficiently internal medicine specialty, backed by scientific knowledge including basic sciences and skills
- Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)
- Exercise empathy and a caring attitude and maintain professional integrity, honesty and high ethical standards
- Plan and deliver comprehensive treatment using the principles of rational drug therapy and Plan and advise measures for the prevention and rehabilitation of patients belonging to his specialty;
- Manage emergencies efficiently by providing Basic Life Support (BLS) and Advanced Life Support (ALS) in emergency situation.
- Recognize conditions that may be outside the area of the specialty/ competence and refer them to an appropriate specialist
- Demonstrate skills in documentation of case details including epidemiological data
- Play the assigned role in the implementation of National Health Programs
- Demonstrate competence in basic knowledge of research methodology and clinical epidemiology; and preventive aspects of various disease states
- Be a motivated 'teacher' - defined as one keen to share knowledge and skills with a colleague or a junior or any learner
- 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
- Be well versed with his medico-legal responsibilities
- Scholars follow the objectives like 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.
- 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.

MD (Tuberculosis and Respiratory Diseases / Pulmonary Medicine)

Each student should obtain proficiency in the following domains during the period of MD training:

- Theoretical knowledge of different aspects of Pulmonary Medicine including the status in health and disease.
- Acquire clinical skills.
- Acquire practical skills.
- Management of emergencies including Intensive care.
- Preparation of thesis as per MCI guidelines.

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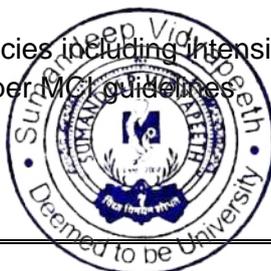
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- Following objectives like patient management in the outpatient, inpatient and emergency situations, case presentations, didactic lectures, seminars, journal reviews, clinico-pathological conferences and mortality review meetings and working in the laboratories.

MD (Dermatology, Venereology & Leprosy)

At the end of 3 years of postgraduate training in Dermatology, Venereology & Leprosy:

- Student should have knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to dermatology.
- The student should acquire in-depth knowledge of his subject including recent advances.
- The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.
- Student should have acquired practical and procedural skills related to the subject.
- Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.
- Should plan and advise measures for the prevention and rehabilitation of patients with various dermatological conditions.
- Able to ensure the implementation of National Health Programmes, particularly in sexually transmitted diseases (STD) and leprosy.
- Acquire training skills in research methodology, professionalism, attitude and communication skills, as below.
- Student must know basic concepts of research methodology, plan a research project, consult library and online resources, has basic knowledge of statistics and can evaluate published studies.
- Should be able to practice the specialty of dermatology ethically.
- Recognize the health needs of patients and carry out professional obligations in keeping with principles of National Health Policy and professional ethics.
- Teaching skills in the subject
- Student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.
- Should have acquired Problem Solving skills

MD (Psychiatry)

At the end of the MD course in Psychiatry, the student shall acquire competencies in the following areas

- Understand the relevance of mental health in relation to the health needs of the country.
- Ethical considerations in the teaching and practice of Psychiatry
- Identify the objectives like social, economic, biological and emotional determinants of mental health.
- Identify the environmental causes as determinants of mental health.

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- Institute appropriate diagnostic, therapeutic and rehabilitative procedures to the mentally ill patient
- Scholars acquire basic skill to take detailed history, conduct appropriate ethically valid physical examination and institute appropriate evaluation procedures to make a correct clinical diagnosis
- Perform relevant investigative and therapeutic procedures for the psychiatric patient
- Recommend appropriate laboratory and imaging examinations and interpret the results correctly
- Plan and deliver comprehensive treatment of a psychiatric patient using principles of rational drug therapy
- Plan rehabilitation of psychiatric patient suffering from chronic illness
- Clinically manage psychiatric emergencies efficiently
- Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities
- Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities
- Develop appropriate skills to practice evidence-based psychiatry
- Demonstrate competence in basic concepts of research methodology and epidemiology
- Be aware of and take appropriate steps in the implementation of national mental health programs, effectively and responsibly
- Be aware of the concept of essential drugs and rational use of drugs
- Be aware of the legal issues in the practice of Psychiatry
- Be aware of the special requirements in the practice of Child and adolescent Psychiatry and Geriatric Psychiatry
- The student should know the basic concepts of research methodology and plan a research project in accordance with ethical principles. She/he should also be able to interpret research findings and apply these in clinical practice. S/he should know how to access and utilize information resources and should have basic knowledge of statistics.
- Teaching: S/He should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students, health professionals, members of allied disciplines (e.g. behavioral sciences), law enforcement agencies, families and consumers and members of the public.

MD (Paediatrics)

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

- 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 has acquired the competencies pertaining to Pediatrics that are required to be practiced in the community and at all levels of health system.

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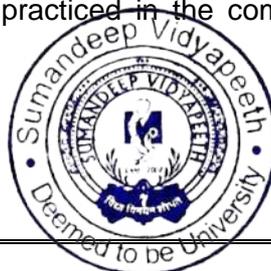
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- Has acquired skills in effectively communicating with the child, family and the community.
- Is aware of contemporary advances and developments in medical sciences as related to child health
- Is oriented to principles of research methodology
- Has acquired skills in educating medical and paramedical professionals
- Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients.

MD (Radio- Diagnosis / Radiology)

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.
- Acquire good basic knowledge in the various sub-specialties of radiology such as Neuro-radiology, GI-radiology, Uro-radiology, vascular-radiology, musculoskeletal, Interventional radiology, Emergency radiology, Pediatric radiology and Mammography.
- Independently conduct and interpret all routine and special radio logic and imaging investigations.
- Demonstrate the skills of solving Scientific & clinical problems & decision making.
- Develop skills as a self-directed learner recognize continuing educational needs, select & use appropriate learning resources.
- Provide radiological services in acute emergency & trauma including its medico legal aspects.
- Elicit indications, diagnostic features and limitation of applications of ultrasonography, CT and MRI and should be able to describe proper cost-effective algorithm of various imaging techniques in a given problem setting.
- Perform various image guided interventional procedures for diagnosis and therapeutic management.
- Undertake further specialization in any of the abovementioned branches in Radio diagnosis such as gastrointestinal radiology, Uro-radiology, Neuroradiology, vascular radiology, musculoskeletal radiology, Interventional Radiology, etc.
- Formulate basic research protocols and carry out research in the field of radiology, related clinical problems.
- Work as a Senior Resident / consultant in Radio diagnosis and conduct the teaching programme for undergraduates, postgraduates as well as Para medical and technical personnel.
- To interact with other specialists and super-specialists so that maximum benefit accrues to the patient.
- Organized CME in the specialty utilizing modern methods of teaching and evaluation.

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Imparting training in both conventional radiology & modern imaging techniques so that the candidate is fully competent to practice, teach and do research in the broad discipline of radiology including ultrasound, Computed tomography and Magnetic Resonance Imaging.

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MD (Anaesthesiology)

At the end of the course, students should have fair knowledge of

- Basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Statistics and Physics) as applied to Anesthesia.
- The student should acquire in-depth knowledge including recent advances.
- The student shall acquire basic skill with the bedside procedures (diagnostic and therapeutic) and have knowledge of all latest diagnostics and therapeutics procedures available including radiological methods.
- The student should learn the basic methodology of teaching and develop skill 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.
- The student should develop attitude that leads to appropriate communication with colleagues to function in a group in Operating Room /Intensive Care Unit, and develop the ability to function as a leader in the operating room.

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PROGRAM NAME: MASTER OF SURGERY (M.S) PROGRAMS

PROGRAMME OUTCOME M.S.

The purpose of MS education is to create specialists who would provide high quality health care and advance the cause of science through research & training. The goal of postgraduate medical education shall be to produce competent specialists and/or Medical teachers.

PROGRAMME SPECIFIC OUTCOME M.S.

- A post graduate specialist having undergone the required training should be able to recognize the health needs of the community, acquire knowledge to handle effectively medical / surgical problems and should be aware of the recent advances pertaining to his specialty.
- Practice the specialty concerned ethically and in step with the principles of primary health care.
- The PG student should acquire the basic skills in teaching of medical / para-medical students and is also expected to know the principles of research methodology and self-directed learning for continuous professional development.
- Play the assigned role in the implementation of national health programme, effectively and responsibly.
- Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation.
- Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources.

COURSE OUTCOME

MS (Obstetrics and Gynecology)

The goal of the MS course in Obstetrics and Gynecology is to produce a competent Obstetrician and Gynecologist who can:

- 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.
- Provide effective and adequate care to a pregnant woman with complicated pregnancy.
- provide effective and adequate care to a normal and high-risk neonate.
- perform obstetrical ultrasound in normal and abnormal pregnancy including Doppler.
- manage effectively all obstetrical and gynecological emergencies and if necessary, make appropriate referrals.
- provide quality care to the community in the diagnosis and management of gynecological problems including screening, and management of all gynecological cancers including during pregnancy.

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- conduct a comprehensive evaluation of infertile couple and have a broad knowledge of assisted reproductive techniques including – ovulation induction, in vitro fertilization and intra-cytoplasmic sperm injection, gamete donation, surrogacy and the legal and ethical implications of these procedures.
- provide counseling and delivery of fertility regulation methods including reversible and irreversible contraception, emergency contraception etc.
- provide quality care to women having spontaneous abortion or requesting Medical Termination of Pregnancy (MTP) and manage their related complications.

MS (General Surgery)

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

- Diagnose and appropriately manage common surgical ailments in a given situation.
- provide adequate preoperative, post-operative and follow-up care of surgical patients.
- identify situations calling for urgent or early surgical intervention and refer at the optimum time to the appropriate centers.
- counsel and guide patients and relatives regarding need, implications and problems of surgery in the individual patient.
- provide and coordinate emergency resuscitative measures in acute surgical situations including trauma.
- organize and conduct relief measures in situations of mass disaster including triage.
- effectively participate in the National Health Programs especially in the Family Welfare Programs.
- discharge effectively medico-legal and ethical responsibilities and practice his specialty ethically.
- must learn to minimize medical errors.
- must update knowledge in recent advances and newer techniques in the management of the patients.
- must learn to obtain informed consent prior to performance of operative procedure.
- perform surgical audit on a regular basis and maintain records (manual and/or electronic) for life.
- participate regularly in departmental academic activities by presenting Seminar, Case discussion, Journal Club and Topic discussion on weekly basis and maintain logbook.
- demonstrate sufficient understanding of basic sciences related to his specialty.
- plan and advise measures for the prevention and rehabilitation of patients belonging to his specialty.

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M.S. (Orthopaedics)

At the end of the M.S. Orthopedics Programme, the post graduate student shall acquire competencies in the following areas

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- Describe the Principles of injury, its mechanism and mode, its clinical presentation, plan and interpret the appropriate investigations, and institute the management of Musculo skeletally injured patient.
- Demonstrate sufficient understanding of the basic sciences relevant to orthopedic specialty through a problem -based approach.
- Identify and describe the surface anatomy and relationships within of the various bones, joints, ligaments, major arteries, veins and nerves of the musculoskeletal system of the spine, upper limb, lower limb and the pelvis, chest, abdomen and head & neck.
- Define and describe the pathophysiology of shock (circulatory failure).
- Define and describe the pathophysiology of Respiratory failure
- Describe the principles and stages of bone and soft tissue healing
- Understand and describe the metabolic, nutritional, endocrine, social impacts of trauma and critical illness.
- Enumerate, classify and describe the various bony/soft tissue injuries affecting the axial and appendicular skeletal system in adults and children.
- Describe the principles of internal and external fixation for stabilization of bone and joint injuries.
- Describe the mechanism of homeostasis, fibrinolysis and methods to control hemorrhage
- Describe the physiological coagulation cascade and its abnormalities
- Describe the pharmacokinetics and dynamics of drug metabolism and excretion of analgesics, anti-inflammatory, antibiotics, disease modifying agents and chemotherapeutic agents.
- Understanding of biostatistics and research methodology

MS (Ophthalmology)

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.

- 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.
- The student should having knowledge of the effects of environment on health and be familiar with the epidemiology of at least the more common diseases in the field of ophthalmology.
- The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.
- The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.

The student should also be made aware of Mobile Ophthalmic Unit and its working and components.

The student should be familiar with the current developments in Ophthalmic Sciences.

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- 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.
- The student should be able to identify a objective for research, plan a rational approach to its solution, execute it and critically evaluate his/her data in the light of existing knowledge.
- The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.
- The student should have basic knowledge of medico-legal aspects of medicine.
- The student should be familiar with patient counseling and proper consent taking.

MS (ENT)

At the end of postgraduate training the student Practice his specialty ethically keeping in mind the requirement of the patient, community and people at large.

- Demonstrate sufficient understanding of basic sciences related to his specialty and be able to integrate such knowledge in his Clinical practice.
- Diagnose and manage majority of conditions in his specialty (clinically and with the help of relevant investigations)
- Plan and advise measures for the promotive, preventive, curative and rehabilitative aspects of health and diseases in the specialty of ENT.
- Should be able to demonstrate his cognitive skills in the field of ENT and its ancillary branches during the formative and summative evaluation processes.
- Play the assigned role in the implementation of National Health Programs
- Demonstrate competence in basic concepts of research methodology and writing thesis and research papers.
- Develop good learning, communication and teaching skills.
- 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.
- Demonstrate that he is fully conversant with the latest diagnostics & therapeutics available.

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PROGRAM NAME: POST GRADUATE DIPLOMA (PG Diploma) PROGRAMS

PROGRAMME OUTCOME PG DIPLOMA

The purpose of PG Diploma education is to create specialists who would provide high quality health care and advance the cause of science through research & training.

PROGRAMME SPECIFIC OUTCOME PG DIPLOMA

- A post graduate diploma student after undergoing the required training should be able to deal effectively with the needs of the community and should be competent to handle the problems related to his specialty including recent advances.
- He should also acquire skill in teaching of medical/paramedical students.
- Practice the specialty concerned ethically and in step with the principles of primary health care.
- Demonstrate sufficient knowledge of the basic sciences relevant to the concerned specialty.

COURSE OUTCOME

PG DIPLOMA (Anesthesiology)

- The student should acquire in-depth knowledge including recent advances.
- fair knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology, Statistics and Physics) as applied to Anesthesia.
- The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and have knowledge of all latest diagnostics and therapeutics procedures available including radiological methods.
- 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.
- The student should develop attitude that leads to appropriate communication with colleagues to function in a group in Operating Room /Intensive Care Unit, and develop the ability to function as a leader in the operating room.

PG DIPLOMA (Clinical Pathology)

- Capable of offering a high-quality diagnostic opinion in a given clinical situation with an appropriate and relevant sample of tissue, blood, body fluid, etc. for the purpose of diagnosis and overall wellbeing of the ill.
- Able to teach and share his knowledge and competence with others. The student should be imparted training in teaching methods in the subject which may enable the student to take up teaching assignments in Medical Colleges/Institutes.

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- Capable of pursuing clinical and laboratory based research. He/she should be introduced to basic research methodology so that he/she can conduct fundamental and applied research.
- The student will show integrity, accountability, respect, compassion and dedicated patient care. The student will demonstrate a commitment to excellence and continuous professional development.
- The student should demonstrate a commitment to ethical principles relating to providing patient care, confidentiality of patient information and informed consent.
- The student should show sensitivity and responsiveness to patients' culture, age, gender and disabilities.
- The student should have acquired skills such as Surgical pathology, cytopathology, hematology, laboratory medicine, transfusion medicine and immunohistochemistry.

PG DIPLOMA (Dermatology, Venereology & Leprosy)

- Student should have knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to dermatology.
- The student should acquire in-depth knowledge of his subject including recent advances. The student should be fully conversant with the bedside procedures (diagnostic and therapeutic) and having knowledge of latest diagnostics and therapeutics available.
- Student should have acquired practical and procedural skills related to the subject.
- Critically evaluate, initiate investigation and clinically manage cases in Dermatology, Venereology and Leprosy with the help of relevant investigations.
- Should plan and advise measures for the prevention and rehabilitation of patients with various dermatological conditions.
- Able to ensure the implementation of National Health Programmes, particularly in sexually transmitted diseases (STD) and leprosy.
- Acquire training skills in research methodology, professionalism, attitude and communication skills, as below: Student must know basic concepts of research methodology, plan a research project, consult library and online resources, has basic knowledge of statistics and can evaluate published studies.
- Should be able to practice the specialty of dermatology ethically.
- Recognize the health needs of patients and carry out professional obligations in keeping with principles of National Health Policy and professional ethics.
- Teaching skills in the subject Student should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students.
- Should have acquired Problem Solving skills

Attested CTC PG DIPLOMA (Obstetrics and Gynaecology)

The goal of the Diploma course in Obstetrics and Gynaecology is to produce a competent Obstetrician and Gynecologist who can:

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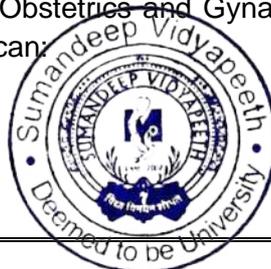
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- Provide quality care to the community in the diagnosis and management of Antenatal, Intra-natal and Post-natal period of normal and abnormal pregnancy and labor.
- provide effective and adequate care to a pregnant woman with complicated pregnancy.
- provide effective and adequate care to a normal and high risk neonate.
- perform obstetrical ultrasound in normal and abnormal pregnancy including Doppler.
- manage effectively all obstetrical and gynecological emergencies and if necessary make appropriate referrals.
- 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.
- conduct a comprehensive evaluation of infertile couple and have a broad based knowledge of assisted reproductive techniques including – ovulation induction, in vitro fertilization and intra-cytoplasmic sperm injection, gamete donation, surrogacy and the legal and ethical implications of these procedures.
- provide counseling and delivery of fertility regulation methods including reversible and irreversible contraception, emergency contraception etc.
- provide quality care to women having spontaneous abortion or requesting Medical Termination of Pregnancy (MTP) and manage their related complications.

PG DIPLOMA (Ophthalmology)

The goal of the Diploma course in Ophthalmology is to produce a competent scholar who can:

- 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.
- 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.
- 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.
- The student should be able to integrate the preventive methods with the curative and rehabilitative measures in the comprehensive management of the disease.
- The student should be familiar with common eye problems occurring in rural areas and be able to deal with them effectively.
- The student should also be made aware of Mobile Ophthalmic Unit and its working and components.

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- The student should be familiar with the current developments in Ophthalmic Sciences
- 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.
- 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.
- The student should reach the conclusions by logical deduction and should be able to assess evidence both as to its reliability and its relevance.
- The student should have basic knowledge of medico-legal aspects of medicine.
- The student should be familiar with patient counseling and proper consent taking.

PG DIPLOMA (Orthopaedics)

The goal of the Diploma course in Orthopedics is to produce a competent scholar who can:

- Describe the Principles of injury, its mechanism and mode, its clinical presentation, plan and interpret the appropriate investigations, and institute the management of Musculo-skeletally injured patient.
- Demonstrate sufficient understanding of the basic sciences relevant to orthopaedic Speciality through a problem based approach.
- Identify and describe the surface anatomy and relationships within of the various bones, joints, ligaments, major arteries, veins and nerves of the musculoskeletal system of the spine, upper limb, lower limb and the pelvis, chest, abdomen and head & neck.
- Define and describe the pathophysiology of shock (circulatory failure).
- Define and describe the pathophysiology of Respiratory failure
- Describe the principles and stages of bone and soft tissue healing
- Understand and describe the metabolic, nutritional, endocrine, social impacts of trauma and critical illness.
- Enumerate, classify and describe the various bony/soft tissue injuries affecting the axial and appendicular skeletal system in adults and children.
- Describe the principles of internal and external fixation for stabilization of bone and joint injuries.
- Describe the mechanism of homeostasis, fibrinolysis and methods to control haemorrhage
- Describe the physiological coagulation cascade and its abnormalities
- Describe the pharmacokinetics and dynamics of drug metabolism and excretion of analgesics, anti inflammatory, antibiotics, disease modifying agents and chemotherapeutic agents.
- Understanding of biostatistics and research methodology

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PG DIPLOMA (Otorhinology / ENT)

The goal of the Diploma course in Otorhinology is to produce a competent scholar who can:

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

PG DIPLOMA (Child Health / Paediatrics)

The objectives of Diploma Course in Child Health are to produce a competent pediatrician who:

- 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
- Has acquired the competencies pertaining to Paediatrics that are required to be practiced in the community and at all levels of health system
- Has acquired skills in effectively communicating with the child, family and the community
- Is aware of contemporary advances and developments in medical sciences as related to child health
- Is oriented to principles of research methodology
- Has acquired skills in educating medical and paramedical professionals
- Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients.

Attested CTC

Sharaney
15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

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PG DIPLOMA (Psychiatric Medicine)

At the end of the Diploma course in Psychiatric Medicine, the student shall acquire competencies in the following areas

- Understand the relevance of mental health in relation to the health needs of the country
- Ethical considerations in the teaching and practice of Psychiatry
- Identify the social, economic, biological and emotional determinants of mental health
- Identify the environmental causes as determinants of mental health
- Institute appropriate diagnostic, therapeutic and rehabilitative procedures to the mentally ill patient
- Take detailed history, conduct appropriate ethically valid physical examination and institute appropriate evaluation procedures to make a correct clinical diagnosis
- Perform relevant investigative and therapeutic procedures for the psychiatric patient
- Recommend appropriate laboratory and imaging examinations and interpret the results correctly
- Plan and deliver comprehensive treatment of a psychiatric patient using principles of rational drug therapy
- Plan rehabilitation of psychiatric patient suffering from chronic illness
- Clinically manage psychiatric emergencies efficiently
- Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities
- Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities
- Develop appropriate skills to practice evidence-based psychiatry
- Demonstrate competence in basic concepts of research methodology and epidemiology
- Be aware of and take appropriate steps in the implementation of national mental health programs, effectively and responsibly
- Be aware of the concept of essential drugs and rational use of drugs
- Be aware of the legal issues in the practise of Psychiatry
- Be aware of the special requirements in the practice of Child and adolescent Psychiatry and Geriatric Psychiatry
- The student should know the basic concepts of research methodology and plan a research project in accordance with ethical principles. S/he should also be able to interpret research findings and apply these in clinical practice. S/he should know how to access and utilize information resources and should have basic knowledge of statistics

Attested CTC

Anarav
15/12/2021

Vice-Chancellor

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- Teaching: S/He should learn the basic methodology of teaching and develop competence in teaching medical/paramedical students, health professionals, members of allied disciplines (e.g. behavioral sciences), law enforcement, agencies, families and consumers and members of the public.

PG DIPLOMA (Medical Radiodiagnosis / Radiology)

At the end of the Diploma course in Medical Radiodiagnosis, the student shall acquire competencies in the following areas

- 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.

PG DIPLOMA (Respiratory Medicine / Tuberculosis & Respiratory Disease / Pulmonary Medicine)

At the end of the Diploma course in Respiratory Medicine, the student shall acquire competencies in the following areas

- Theoretical knowledge of different aspects of Pulmonary Medicine including the status in health and disease.
- Acquire clinical skills.
- Acquire practical skills.
- Management of emergencies including intensive care.
- Preparation of thesis as per MCI guidelines. These involve patient management in the outpatient, inpatient and emergency situations, case presentations, didactic lectures, seminars, journal reviews, clinicopathological conferences and mortality review meetings and working in the laboratories.

PG DIPLOMA (Social and Preventive Medicine / Community Medicine)

At the end of the Diploma course in Community Medicine, the student shall acquire competencies in the following areas

- Basic knowledge in application of principles of Public Health, Community Medicine and applied epidemiology, contributing meaningfully in formulating National Health Policies & Programs with a system approach for overall human development.
- Scholars acquire basic skill to standardize the teaching & training approaches at post- graduate level, for Community Medicine
- Research: 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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Sharaney
15/2/2021

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PROGRAM NAME: MASTER OF CHIRURGIAE (MCh.) PROGRAMS

PROGRAMME OUTCOME MASTER OF CHIRURGIAE (M.Ch)

The aims and objectives of M.Ch. training shall train surgeons with adequate knowledge, skills, aptitude and attitudes in their specialty field. They should be able to function as an independent clinician/consultant and a teacher with research skills.

PROGRAMME SPECIFIC OUTCOME MASTER OF CHIRURGIAE (M.Ch)

- Recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy
- They have mastered most of the competencies, pertaining to the specialty, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system.
- To be aware of the contemporary advances and developments in the discipline concerned.
- They have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology
- Knowledge and skills that the trainee must acquire during the training period related to research works.
- They have acquired the basic skills in teaching of the medical and paramedical professionals.

COURSE OUTCOME

MCh (Cardio-Thoracic & Vascular Surgery)

At the end of the Postgraduate training in the discipline concerned the student shall be able to

- Recognize the importance of Cardiothoracic & Vascular Surgery in the context of the health needs of the community and national priorities in the health sector.
- Practice Cardiothoracic & Vascular Surgery ethically and in step with the principles of primary health care.
- Demonstrate sufficient understanding of the basic sciences relevant to Cardiothoracic & Vascular Surgery
- Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and promotive measures/strategies.
- Diagnose and manage majority of the conditions in the specialty of Cardiothoracic & Vascular Surgery on the basis of clinical assessment, and appropriately selected and conducted investigations
- Plan and advise measures for the prevention and rehabilitation of patients suffering from disease and disability related to the specialty of Cardiothoracic & Vascular Surgery

Attested CTC

(Signature)
15/2/2021

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- Demonstrate skills in documentation of individual case details as well as morbidity and mortality data relevant to the assigned to the situation.
- Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behavior in accordance with the social norms and expectation.
- Play the assigned role in the implementation of National Health Programmes effectively and responsibly.
- Organize and supervise the Cardiothoracic & Vascular Surgical Health care services demonstrating adequate managerial skills in the clinic/hospital in the field situation.
- Develop skills as a self-directed learner, recognize continuing educational needs, select and use appropriate learning resources.
- Demonstrate competence in basic concepts of research methodology and epidemiology and be able to critically analyze relevant published research literature.
- Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.
- Function as an effective leader of a health team engaged in health care, research or training.

MCh (Plastic Surgery)

At the end of the MCh Plastic Surgery, the student should be able to:

- Recognize the key importance of medical problems in the context of the health priority of the country;
- Practice the specialty of plastic surgery in keeping with the principles of professional ethics;
- Identify social, economic, environmental, biological and emotional determinants of adult Plastic Surgery and know the therapeutic, rehabilitative, preventive and promotion measures to provide holistic care to all patients
- Take detailed history, perform full physical examination and make a clinical diagnosis;
Perform and interpret relevant investigations (Imaging and Laboratory);
Perform and interpret important diagnostic procedures;
- Diagnose illnesses in adults based on the analysis of history, physical examination and investigative work up
- Plan and deliver comprehensive treatment for illness in adults using principles of rational drug therapy
- Plan and advise measures for the prevention of diseases;
- Plan rehabilitation of adults suffering from chronic illness, and those with special needs and Manage emergencies efficiently
- Demonstrate skills in documentation of case details, and of morbidity and mortality data relevant to the assigned situation

Attested CTC

Anarany
15/2/2021

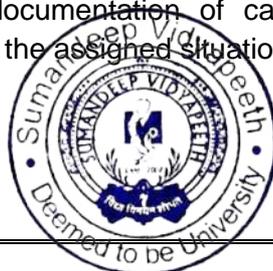
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- Demonstrate empathy and humane approach towards patients and their families and respect their sensibilities
- Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities.
- 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 medicine Demonstrate competence in basic concepts of research methodology and epidemiology;
- Facilitate learning of medical/nursing students, practicing surgeons, para-medical health workers and other providers as a teacher-trainer;
- Play the assigned role in the implementation of national health programs, effectively and responsibly
- Organize and supervise the desired managerial and leadership skills
- Function as a productive member of a team engaged in health care, research and education.

MCh. (Neurosurgery)

At the end of the training course in Neurosurgery, The candidate

- Should be well acquainted with the current literature on relevant aspects of the basic, investigative, clinical and operative neurosciences.
- Should have learned indications and performance skills of common neurosurgical operations.
- Should have acquired performance skills and ability to interpret relevant clinical investigations.
- Should be able to diagnose, plan investigations and treat common conditions in the speciality by relevant current therapeutic methods.
- Should be acquainted with allied and general clinical disciplines to ensure appropriate and timely referral.
- Should be capable of imparting basic neurosurgical training.
- Should be able to identify, frame and carry out research proposals in the relevant speciality.

Attested CTC

Sharaney
15/2/2021

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PROGRAM NAME: DOCTOR OF MEDICINE (D.M) PROGRAMS

PROGRAM OUTCOME DOCTOR OF MEDICINE (DM)

The purpose of post-doctoral education is to create specialists who would provide high quality health care and advance the cause of science through research and training.

PROGRAMME SPECIFIC OUTCOME: DM

- The goal of the training in DM is to have trained physicians competent to manage patients in hospital and community settings independently and serve as a teacher for training undergraduates/ postgraduates.
- He / She should also acquire skills in supervision of paramedical staff and be able to work as a team member of the health care providers.
- In addition, she/he should be well versed to carry out research.
- Thus, the major components of the curriculum shall cover theoretical knowledge, practical and clinical skills, attitude skills and training in research methodology and social care.
- Recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy.

COURSE OUTCOME

DM (Cardiology)

- At the end of the Postgraduate training in the discipline concerned the student shall be able to recognize the importance of Cardiology in the context of the health needs of the community and national priorities in the health sector.
- Practice Cardiology ethically and in step with the principles of primary health care.
- Demonstrate sufficient understanding of the basic sciences relevant to Cardiology.
- Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive, and promotive measures/strategies.
- Diagnose and manage majority of conditions in the specialty of Cardiology on the basis of clinical assessment, and appropriately selected and conducted investigations.
- Plan and advice measures for the prevention and rehabilitation of patients suffering from disease and disability related to the specialty of Cardiology.
- Demonstrate skills in documentation of individual case details as well as morbidity and mortality data relevant to the assigned situation.
- Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behaviour in accordance with the societal norms and expectation.

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Sharanesh
15/2/2021

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- Play the assigned role in the implementation of National Health Programmes, effectively and responsibly.
- Organise and supervise the Cardiological Health Care services demonstrating adequate managerial skills in the clinic/hospital in the field situation.
- Develop skills as a self-directed learner, recognise continuing educational needs: select and use appropriate learning resources.
- Demonstrate competence in basic concepts of research methodology and epidemiology and be able to critically analyse relevant published research literature.
- Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.
- Function as an effective leader of a health team engaged in health care, research or training.

DM (Neurology)

At the end of the training course in Neurology the student should be able to

- Function as Faculty/consultants in the specialty
- Plan and set up independent Neurology Unit catering to clinical and investigative Neurology
- Carry out and help in conducting applied research in Neurosciences.

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PROGRAM NAME: MASTER OF SCIENCE (MSc.) IN MEDICAL PROGRAMS

PROGRAMME OUTCOME MASTER OF SCIENCE (MEDICAL)

The Master of Science in Medical field provides the candidate with knowledge, general competence, and analytical skills on an advanced level, needed in consultancy, education, research.

PROGRAMME SPECIFIC OUTCOME MASTER OF SCIENCE (MEDICAL)

- A post graduate student after undergoing the required training should be able to deal with the allied departments and render services in advanced laboratory investigations.
- The PG student should acquire basic skills in teaching medical/para-medical students
- The student should have knowledge about the principles of research methodology and self-directed learning for continuous professional development.
- The student should be able to carry out a research project from planning to publication and be able to pursue academic interests.

COURSE OUTCOME

MASTER OF SCIENCE (MEDICAL) in Anatomy

After completing the three-year course in M.Sc. Anatomy, the student shall have achieved competence in the following:

- 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.
- Acquire mastery in dissection skills, embalming, tissue preparation, staining and museum preparation.
- Acquire skills in teaching, research methodology, epidemiology & basic information technology.
- Acquire knowledge in the basic aspects of Biostatistics and research methodology. has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.
- Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (e.g. PubMed, Medline, Cochrane reviews). Acquire skills in paper & poster preparation, writing research papers and Thesis.
- Develop honest work ethics and empathetic behavior with students and colleagues.
- Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty. Acquire attitude and communication skills to interact with colleagues, teachers and students.

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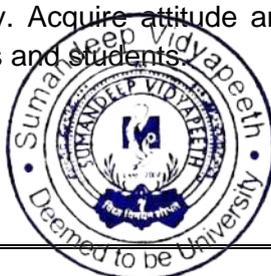
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- Practicing different methods of teaching-learning. Making presentations of the subject topics and research outputs.
- Demonstrate the ability to identify applied implications of the knowledge of anatomy and discuss information relevant to the problem, using
- consultation, texts, archival literature and electronic media. Demonstrate the ability to correlate the clinical conditions to the anatomical /embryological /hereditary factors. Demonstrate the ability to evaluate scientific/clinical information and critically analyze conflicting data and hypothesis.

MASTER OF SCIENCE (MEDICAL) in Biochemistry

At the end of the M.Sc. training programme in Biochemistry, the post graduate student should have acquired competencies in the following areas, as detailed below:

- The student should be able to explain clearly concepts and principles of biochemistry and cell biology, including correlations of these with cellular and molecular processes involved in health and disease.
- The student should be able to effectively teach undergraduate students in medicine and allied health science courses so they become competent health care professionals and able to contribute to training of postgraduate post graduate students.
- The student should be able to set up/supervise/manage a diagnostic laboratory in Biochemistry in a hospital, ensuring quality control, and providing a reliable support service. The student should be able to provide clinicians with consultation services for diagnostic tests in biochemistry and in interpretation of laboratory results.
- The student should be able to 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.

MASTER OF SCIENCE (MEDICAL) in Physiology

A post graduate student having qualified the M.Sc. (Physiology) examination shall achieved competency to:

- Understand and deal with all aspects of general, systemic and applied Physiology.
- 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.
- Understand general principles of medical education (use of appropriate teaching techniques and resources).
- Explain how the knowledge of physiology can be effectively used in a various clinical setting to solve diagnostic and therapeutic problems.
- Interpret and evaluate research publications critically.
- Use the library facilities (Literature database using computer, CD ROM, internet search and any other available newer techniques).

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

MASTER OF SCIENCE (MEDICAL) in Microbiology

A post graduate student upon successfully qualifying in the M.Sc. (Microbiology) examination should be able to:

- Demonstrate competence as a clinical microbiologist.
- Interact effectively with the allied departments by rendering services in basic as well as advanced laboratory investigations
- Demonstrate application of microbiology in a variety of clinical settings to solve diagnostic and therapeutic problems along with preventive measures.
- Play a pivotal role in hospital infection control, including formulation of antibiotic policy and management of biomedical waste.
- Acquire skills in conducting collaborative research in the field of Microbiology and allied sciences.
- Conduct such clinical/experimental research as would have significant bearing on human health and patient care
- Demonstrate effective communication skills required for the practice of clinical microbiology and while teaching undergraduate students
- Establish good clinical microbiological services in a hospital and in the community in the fields of bacteriology, virology, parasitology, immunology and mycology.
- Plan, execute and evaluate teaching assignments in Medical Microbiology.
- Plan, execute, analyze and present the research work in medical microbiology.
- To acquire various skills for collaborative research.
- To participate in various workshops/seminars/journal clubs/demonstration in the allied departments
- Uphold the prestige of the discipline amongst the fraternity of doctors.

MASTER OF SCIENCE (MEDICAL) in Pharmacology

At the end of the M.Sc. training programme in Pharmacology, the student should acquire competencies in the following areas:

- The student should be able to explain clearly concepts and principles of Pharmacology and therapeutics

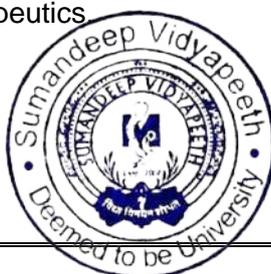
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- The student should also be able to explain the drug development processes. S/he should be able to explain Drugs and Cosmetics Act, in addition to clinical trial procedures.
- The student should be able to effectively teach undergraduate students 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.
- 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 and to eventually be able to guide postgraduates in their thesis work.

MASTER OF SCIENCE (MEDICAL) in Clinical Embryology

At the end of the M.Sc. training programme in Clinical Embryology, the student should be able to

- Develop/ produce trained manpower with strong knowledge base in clinical embryology.
- To impart knowledge of embryology.
- To teach the basics of an ART center where they can work as clinical embryologists.
- To impart knowledge on cryopreservation & practice of embryo freezing so that they can work in cryopreservation centers.
- To give them the basic knowledge of genetics so that they can work in genetics lab.
- To train students in micromanipulation of sperm and oocytes for carrying out ICSI and single- cell biopsies of embryos for pre- implantation genetic diagnosis.

MASTER OF SCIENCE (MEDICAL) in Human Genetics

At the end of the M.Sc. training programme in Human Genetics, the student should be able to

- Learn about untreatable Rare and common genetic disorders, clinical biochemistry, biomedical and developmental genetics.
- Impart sound knowledge of new methods being developed to treat the untreatable diseases and procedures to timely diagnose these diseases.
- Will also inform individuals about how environment influences their own genetic makeup and affects the whole population at large.
- Develop and discover new drugs by in silico methods, thereby decreasing the time and energy by years.
- Have increased the scope of jobs and higher education in this sector for the students.

Attested CTC

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PARAMEDICAL PROGRAMS

PROGRAM OUTCOMES - M. SC MEDICAL LABORATORY TECHNOLOGY

The Program Outcomes of M. Sc in medical Laboratory Technology is to remote and maintain standards of quality for the services and the environment necessary for students to achieve their educational goals and to enhance the social, cognitive, and professional skills required for entry level employment as medical laboratory technicians (MLTs) in the healthcare community.

PROGRAM SPECIFIC OUTCOMES

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: post graduate degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st Year

Basics of Clinical Pathology and Hematology

The student will be able to devise likely diagnoses from clinical scenarios by recognizing key manifestations of congenital, hemodynamic, inflammatory, infectious, metabolic, environmental, and neoplastic diseases and apply knowledge of pathology's role in the diagnosis, staging, and management of disease

General biochemistry

At the end of the course the student should know the structures and functions of biomolecules, their relations that form the basis of what we understand to be living organisms and know the experiment, research related to them.

Microbiology – Basic

At the end of the course students should know the prokaryotic cell structure, develop basic skill in aseptic techniques, sterilization technique. Perform various staining techniques, Cultivate bacteria with different cultivation technique.

IInd Year

Clinical Hematology, Histopathology & and; Cytology

At the end of the course the students should be able to correlate hematological findings with those generated in other areas of the clinical laboratory, patient symptoms and clinical history, to make appropriate and effective on-the-job professional decisions. Perform basic hematological laboratory testing, assess laboratory data and report findings according to laboratory protocol.

Clinical Pathology (applied) & and; Blood Banking

The student will be able to devise likely diagnoses from clinical scenarios by recognizing key manifestations of congenital, hemodynamic, inflammatory, infectious, metabolic, environmental, and neoplastic diseases and apply knowledge of pathology's role in the diagnosis, staging, and management of disease.

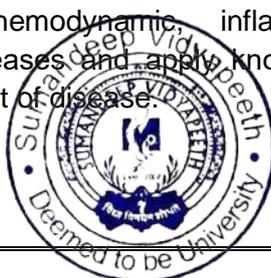
Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

Vill. Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)





SUMANDEEP VIDYAPEETH

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The student should be able to apply advanced blood bank and blood transfusion knowledge to make appropriate and effective on-the-job professional decisions. Perform and interpret commonly utilized procedures in the blood bank laboratory. Recognize normal and abnormal test results and correlate these data with appropriate pathologic conditions to accurately advise health care providers

At the end of the course the students should know a wide range of advanced experimental techniques, laboratory exercises which have significance in Hospitals laboratory and blood bank applications, scientific method and mathematical analysis have skills in maintaining data & report writing.

Metabolism and Applied biochemistry

At the end of the course student should know the principle, biochemistry and pathophysiology associated with tests performed in a clinical biochemistry laboratory and analytical instruments.

Systemic & Clinical Microbiology

At the end of the course the students are able to perform diagnostic skills by using basic and advanced diagnostic exercises using microscopy etc., apply appropriate microbiology laboratory techniques, methodologies, instruments and equipment in accordance with current laboratory safety protocol. And calculate, record, and report clinical microbiology results/reports according to clinical laboratory protocol.

Dissertation/Research project

At the end of the course the students are Capable to apply the research skills and techniques in the real social phenomena and Familiar with the collection of data, analysis and project report writing.

Attested CTC

Sharaney
15/2/2021

Vice-Chancellor
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PROGRAM OUTCOME M. SC RADIO IMAGING TECHNOLOGY

The Aim of M.Sc. in Radio Imaging Technology program is to provide highest and Atomic Energy Regulatory Board (AERB) accredited educational process through formal didactic and state-of-the-art clinical experiences that will render qualified, patient focused, compassionate, critical thinkers Medical Radiology and Imaging Technologist for the community who are engaged in lifelong learning.

PROGRAM SPECIFIC OUTCOMES

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: post graduate degree is able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

Ist Year

Management and Planning of radiology department with compliance to national & international guidelines

Verifying informed consent, assuming responsibility for patient needs during procedures. Research and development of new techniques and procedures as assigned. Promotes effective working relationships and works effectively as part of a department / unit / team inter and intra departmentally to facilitate the department/unit's ability to meet its goals and objectives. Applying principles of ALARA to minimize exposure to patient, self and others. Starting and maintaining intravenous access as prescribed, Identifying, preparing and/or administering medications as prescribed

Modern Imaging Techniques including Fusion and hybrid imaging technologies

Performing diagnostic radiographic and non-interpretive fluoroscopic procedures Assist radiologists and senior staff in complex radiological examinations.

Advanced Physics of Radiology & Imaging

Ensure safe custody of all the accessories of the X-ray unit of which he/she is in charge. Keeps the X-ray room locked when not in use

Radiation safety in diagnostic Radiology

Understands and observes health and safety precautions and instruction for self and others protection. He/she should wear dosimeter during duty hours. Attends all in service education required as per hospital policy. Providing education. Educating and monitoring students and other health care providers.

Radiological and Imaging Procedures

Applying principles of ALARA to minimize exposure to patient, self and others. Starting and maintaining intravenous access as prescribed, Identifying, preparing and/or administering medications as prescribed Evaluating images for technical quality, ensuring proper identification is recorded. Performing diagnostic radiographic and non-interpretive fluoroscopic procedures Assist radiologists and senior staff in complex radiological examinations. Record imaging identification and patient documentation quickly and accurately and observes protocols

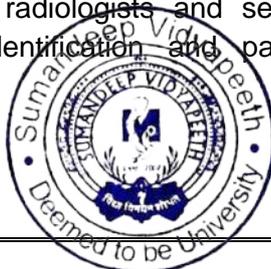
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IInd Year

Newer Imaging Modalities

At the end of the lecture, the student will be able to: 1. Discuss the relationship of angular momentum to nuclear structure 2. Describe the nature of a magnetic field 3. Define magnetic dipole moment 4. Discuss the parameters of MRI 5. Describe the mechanism for relaxation 6. Discuss the instrumentation of MRI 7. Describe MRI techniques 8. Discuss the instrumentation of MRI 9. Describe MRI techniques 10. Discuss the hazards of MRI 11. Describe the MRI image 12. Discuss MRI Quality Assurance

Intervention Radiological Techniques and Care of Patient

At the end of the lecture, the student will be able to: 1. Discuss the principles and purpose of ultrasound 2. Describe the characteristics of sound 3. Describe the ultrasonic transducer 4. Discuss the characteristics of Piezoelectric Crystals 5. Describe the characteristics of an ultrasonic beam 6. Describe the interactions between ultrasound and matter 7. Contrast A, B, TM and Real Time modes of ultrasonic display 8. Define Gray-Scale 9. Discuss the imaging principles 10. Explain the Doppler Technique 11. Credentialing Applications

Biostatistics & Basic Research Methodology

At the end of the course student should get understanding of the central concepts of modern statistical theory and their probabilistic foundation. At the end of the course the students should know some basic concepts of research and its methodologies, identify appropriate research topic, research problem and parameters. Prepare a project proposal (to undertake a project). Organize and conduct research in an appropriate manner and write a research report and thesis and write a research proposal (grants)

Dissertation

At the end of the course the students are Capable to apply the research skills and techniques in the real social phenomena ad Familiar with the collection of data, analysis and project report writing.

Attested CTC

Sharaney
15/2/2021

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PROGRAM OUTCOMES - M. SC TRAUMA CARE AND EMERGENCY MANAGEMENT

Program aims to develop competencies, specifically in the area of intensive care, in order to guarantee high quality medical assistance. Healthcare Professionals that operate in intensive care must possess specific knowledge, competencies and abilities that will allow them to deal with any situation that may determine the instability or critical state of a patient's vital signs, from verifying the event that triggered the critical state to stabilization and the beginning of recovery or death.

PROGRAM SPECIFIC OUTCOME

(M. Sc TRAUMA CARE AND EMERGENCY MANAGEMENT)

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: post graduate degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

Patient Assessment & Medication Administration Procedure

Examine, diagnose, treat life-threatening injuries as soon as they are diagnosed • Use simplest treatment possible to stabilize patient's condition. The students should be capable to demonstrate skills in teaching, management, interpersonal relations and communication

Advanced Airway Management

Students will able to learn the following methods Airway Management and ventilation, breathing skills

Cardiovascular & Neurological Management

Student should able to learn mechanisms of the cardiovascular system → Location, structure and function of the electrical conduction systems of the heart. → Electrical conductive pathway of the hear In relation to the normal sinus ECG

Applied Pharmacology I

Administration of pharmacological agents (Routes of administration)
Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,) General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs)Drugs related cardiovascular system

Patient Assessment & Medication Administration Procedure (Practical)

Managing trauma, from minor injury to humanitarian emergencies, including injuries in women, children and the elderly, with the principal goal of improving quality of care and patient safety. Apply evidence-based guidelines to the care of patients with critical illness or injury such as ventilatory management for patients with ARDS, weaning from mechanical ventilation, administration of nutritional support, prophylactic antibiotic administration, blood product transfusion and prevention of ICU related complications.

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Advanced Airway Management (Practical)

Student should be able to learn Intubation, LMA, Bag Mask Ventilation, Oral Airway, Needle Thoracocentesis, Upper Airway Obstruction, Choking Management

Cardiovascular & Neurological Management (Practical)

Student should be able to learn mechanisms of the cardiovascular system → Location, structure and function of the electrical conduction systems of the heart. → Electrical conductive pathway of the heart In relation to the normal sinus ECG and Management of Increased Intracranial Pressure

Medical Emergencies –I

Students will be able to Learn to identify common medical emergencies based on their signs and symptoms, how to recognize and manage chest pain, heart attack, stroke, diabetic problems, seizures, breathing difficulty, burns, and allergic reactions, about poisoning, fever, childhood illnesses, injuries from accidents, and the signs of abuse in children

Mechanical Ventilation

Student should be able to Identify differences between normal ventilation and mechanical ventilation. Discuss key variables related to mechanical ventilation including but not limited to PEEP, pressure support, tidal volume and minute ventilation.

Trauma Management

Demonstrate proper performance of brain death certification, and apply clinical criteria of brain death and basic principles of support for potential organ donors and Demonstrate knowledge and competency in ventilator management including the use of PEEP, supplemental oxygen, lung-protective ventilation strategies, pressure-cycled, volume-cycled and dual modes of ventilation;

Applied Pharmacology II

The student will learn of the critical steps to attend a Pharmacological Research laboratory. He/she will learn how to examine the state of the art to develop a specific research activity. He/she will learn the general features related to the different experimental models (acellular, cellular, isolated and in vivo organs) and to clinical studies. He/she will learn how to critically examine the results of a scientific experiment and will be given examples of the different types of experimental models

Medical Emergencies –I (Practical)

The student will learn to Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis.

Mechanical Ventilation (Practical)

The student will learn to Describe the different modes of mechanical ventilation. Discuss various physical therapy clinical implications related to mechanical ventilation and the weaning process. Outline appropriate clinical decision making for mobilizing patients on different mechanical ventilation settings.

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IInd YEAR

Trauma Management (Practical)

To present a systematic approach to the management of trauma patients in a rural setting with minimal resources To deliver a reasonable systematic approach to the management of patients who sustained traumatic injuries in areas where resources are limited.

Medical Emergencies –II

Demonstrate leadership, teamwork and decision making in the management of multiple personnel on emergency scenes. Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism. Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Dialysis

Apply the knowledge and skills of dialysis to provide safe and effective care to individual undergoing dialysis. Efficiently execute well-designed dialysis procedures and contribute to analysis and interpretation of clinical data.

Emergency Medical Services- Operations

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Patient care & Procedures in ICU

Demonstrate knowledge and competency in basic principles of trauma assessment and resuscitation, including airway management with C-spine immobilization, rapid sequence intubation and establishment of adequate intravenous access

Medical Emergencies –II (Practical)

Higher Technical skills and competencies.

Dialysis (Practical)

Comprehend the process of dialysis, the role of a technologist with respect to the pre, intra & post dialysis process. Enumerate the various drugs used during the dialysis process. Describe the nutrition requirement for a patient with chronic kidney disease & acute kidney injury, & prepare a health teaching plan for the same. Manage the anticoagulation on patients on dialysis.

Patient care & Procedures in ICU (Practical)

Demonstrate knowledge and competency in resuscitation skills, including cardiopulmonary resuscitation, emergency airway management using bag and mask ventilation, and intubation. Demonstrate knowledge and competency in the performance of procedures, specifically central and arterial lines, intubations, tube thoracostomy, pulmonary artery catheters and fibre optic bronchoscopy;

Critical Care Transport

Competency to take decisions applying ethical values and knowledge of proper etiquette. Demonstrate proper performance of brain death certification, and apply clinical criteria of brain death and basic principles of support for potential organ donors; Demonstrate knowledge and competency in ventilator management including the use of PEEP, supplemental oxygen, lung-protective ventilation strategies, pressure-cycled, volume-cycled and dual modes of ventilation;

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Health Care System in India

At the end of the course students will be able to Describe the health systems of various Countries including India. Discuss and learn public health care system in India Develop, implement and manage various public health programs Critically analyze the various components of health care delivery system in India Apply various principles of planning and management in implementing health projects and programmes.6 Recognize the various sections of healthcare legislations in India and initiate appropriate actions in public health practice. Apply the concept of planning and management tools such as PERT, CPM, etc

Forensic Medicine & Medical Ethics

At the end of the course in Forensic Medicine, the learner shall be able to Identify, examine and prepare report or certificate in medico-legal cases/situations in accordance with the law of land. Perform medico-legal postmortem examination and interpret autopsy findings and results of other relevant investigations to logically conclude the cause, manner and time since death. Be conversant with medical ethics, etiquette, duties, rights, medical negligence and legal responsibilities of the physicians towards patients, profession, society, state and humanity at large

Clinical Rotation.

Manage his/her professional and personal activities effectively. Set priorities and manage time to balance professional responsibilities, outside activities and personal life . Employ information technology effectively (e.g. electronic surgical procedure database). Demonstrate an understanding of cost-effectiveness in patient management . Utilize hospital resources wisely when managing emergency patients. Serve in leadership roles, as appropriate. Participate effectively at teaching rounds and other meetings

Course 13: Dissertation.

At the end of the course the students are Capable to apply the research skills and techniques in the real social phenomena ad Familiar with the collection of data, analysis and project report writing.

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PROGRAM OUTCOMES (M. SC PERFUSION CARE TECHNOLOGY)

Perfusion Technologists prepare and operate heart-lung machines and other sophisticated equipment as directed by healthcare physicians. Perfusionists measure blood pressure and other parameters to identify appropriate mechanical, pharmacological and thermal manipulation to maintain tissue viability.

PROGRAM SPECIFIC OUTCOME (M. SC PERFUSION CARE TECHNOLOGY)

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Post graduate degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

Cardiology

Basics of cardiology (ECG, cardiac catheterization, Intraaortic balloon pump), cardiac monitoring, Core knowledge in echocardiography. Knowledge of Sterility in Cath lab.

Cardiac Surgery

Detailed knowledge in Pacing and Electrophysiology Core knowledge in the management of complications in lab Recent advances in cardiovascular Technology

Perfusion Technology & Physiology & Pathology Of Perfusion

Advanced cardiac, vascular and respiratory physiology Advanced knowledge about Cardiac Catheterization lab, Neonatal physiology, general homeostasis & fluid management in pediatric age group, CPB effects on children.

Pharmacology of Cardiovascular Drugs

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system.

IInd YEAR

Clinical Applications Of Perfusion Technology

To create competent professional in the area of perfusion care and To undertake and guide research activities to improve the practice of perfusion technology. To develop administrative and organizing capabilities in their area to manage the resources (men and materials) with the sense of cost-effectiveness

Cardiac Surgery Without CBP

Performing CABG surgery on the beating heart requires a mandatory period of coronary occlusion for each distal anastomosis. Intracoronary shunts can maintain coronary flow at the possible cost of trauma to the endothelium.

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Mechanical Circulatory Support & Robotic Cardiac Surgery

To develop the conscience of team spirit, passion of professionalism, collegiality and maintenance of good rapport and relations with the other health care members. To participate in health teams to provide care during natural or man-made calamities To keep abreast with the latest developments by self-learning and / or participating in continuing medical education programmers.

Hematology as Relevant To Perfusion, Blood Transfusion And Blood Conservation

Hematology (coagulation system, blood and blood products, blood conservation)

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PROGRAM OUTCOMES (M. SC CARDIAC CARE TECHNOLOGY)

This program is aimed at training candidates for the job of a "Cardiac Care Technology" in the "Healthcare" Sector/Industry and aims at building the following key competencies amongst the learner.

PROGRAM SPECIFIC OUTCOME (M. SC CARDIAC CARE TECHNOLOGY)

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: post graduate degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

X-Ray Physics, Instrumentation, Hardware's and sterility

Core knowledge in Radiation Physics and Application, Medical Electronics, Core knowledge in ECG, Core knowledge in Exercise ECG, Physiology of the coronary circulation

Electrophysiology and cardiac pacemakers

Diagnosis of cardiac arrhythmias (diagnostic tests) Holter, Exercise test, HR n variability, QT Dispersion and SAECG, Tilt table test

Ischemic &Valvular heart disease

Understanding coronary circulation: Wall motion scoring: Global ventricular function, Myocardial infarction: Complications of MI, Stress echocardiography Surgical aspects of IHD-role of echo cardiographer

Epidemiology &Biostatistics

Basic probability distribution and sampling distributions, Tests of Significance, Correlation and Regression, Sample size determination, Study Designs, Multivariate analysis, Reliability and validity evaluation of Diagnostic Tests Format of Scientific documents

Congenital Heart Diseases

To understand the principles and techniques necessary to calculate flows, resistances, cardiac function, and severity of stenoses by catheterization methods. Understand the uses of appropriate angiography techniques and selective angiography. Learn basic principles and techniques of standard interventional therapeutic techniques (balloon atrial Septostomy; balloon valvuloplasty). Appropriate use and performance/interpretation of noninvasive tests (x-ray, ECG, echocardiography, Doppler ultrasound, ambulatory ECG, exercise testing, cardiac MRI). Develop skills in transthoracic and transesophageal echocardiography. Developing plans for treatment, monitoring, and follow-up. Understanding of the natural history of congenital and acquired heart disease and appropriate plans for counseling and follow-up

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Cath and Intervention in myocardial, pericardial Disease & Non cardiac intervention

Students will be able assist the catheterization procedure independently under the supervision of the faculty to develop the skill and experience. Percutaneous Mitral

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Valve Repair Percutaneous Aortic valvular approach

Recent Advances in Intervention

Students should be able to: a. Appropriately select patients for percutaneous coronary revascularization and identify the optimal timing for the procedure, applying evidence-based medicine and current guidelines to the individual patient needs and characteristics, with optimal and cost-effective use of the available resources. b. Be able to understand, explain and discuss the individual options of medical, percutaneous or surgical treatment with patients, patient relatives, referring physicians, other cardiologists, cardiac surgeons.

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PROGRAM OUTCOMES (M. SC MEDICAL SOCIAL WORK)

- To promote human resources aiming at improving the quality of life of poorest of the poor.
- To meet the growing demand for professionally trained social workers across the country.
- To provide social work education and training based on indigenous knowledge and uniform curriculum across the country.
- To help the learner acquire professional skills and knowledge to help the clients to deal with their emotional and psychological problems.
- To help the learner acquire professional skills and develop capacity in helping people to solve various social and economic problems.
- To help the learner to develop required attitudes in understanding people's problem-solving interventions

PROGRAM SPECIFIC OUTCOMES (M. SC MEDICAL SOCIAL WORK)

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: They are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

Ist YEAR

Origin and Development of Social Work (Theory)

After studying this course, student should be able to: Identify why biography is important, understand how identity and attachment theory contribute to social work practice, recognise what qualities service users/carers value in social workers, understand what values are integral to a professional social worker's identity, understand what it means to practice reflectively.

Professional Social Work: Indian Perspectives (Theory)

Able to understand the fundamental concepts of social work profession in order to develop an insight about professional attitude and attribute; 2) Capable to demonstrate the awareness about values and ethics of the social work profession.

Basic Social Science Concepts

Able to understand the genesis and the current scenario of social problems; Capable to understand the basic concepts related to contemporary Indian social concerns.

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Social Work and Social Development (Theory)

Capable to understand the concepts, problems, policies and programmes related to youth. Familiar with the concepts and processes of social policy, planning & development. Able to understand the significance of social policy & development in social work practice.

Social Work Practicum and Supervision (Theory)

Capable to understand the contemporary areas of social work practice. Able to understand the needs & problems, policy framework, programs, various institutional & non-institutional services and social work interventions related these areas

IInd YEAR

Social Work Research (Theory)

Capable to understand the application of scientific methods of social research. Able to demonstrate skills in applying qualitative research techniques.

Case Work and Counselling: Working with individuals

Able to understand the concepts, problems, policies and programmes related to aged. Understand the social work practice for working with elderly. Able to understand the community, its structure and various aspects; Capable to understand the methodology, tools, techniques and skills to work directly in the society.

Social Group Work: Working with groups

Able to demonstrate the familiarity with Group Work process; Capable to understand the methodology, tools, techniques and skills required for working with groups. Able to understand the conceptual and theoretical aspects of palliative care in social work. Capable to develop the competence to address sensitive vital issues in palliative care practice.

Community Organization Management for Community Development

Able to understand the social welfare administration in order to get an insight about service delivery system; Able to understand the basics of entrepreneurial skills by learning the functioning of an NGO.

Dissertation

Capable to apply the research skills and techniques in the real social phenomena; Familiar with the collection of data, analysis and project report.

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PROGRAM OUTCOMES (B. SC MEDICAL LABORATORY TECHNOLOGY)

The Programme Outcomes of B. Sc in medical Laboratory Technology is to remote and maintain standards of quality for the services and the environment necessary for students to achieve their educational goals and to enhance the social, cognitive, and professional skills required for entry level employment as medical laboratory technicians (MLTs) in the healthcare community.

PROGRAM SPECIFIC OUTCOMES (B. SC MEDICAL LABORATORY TECHNOLOGY)

Integrate knowledge learned and experienced in the disciplines of general education, science, and medical laboratory science; Achieve entry-level career competencies of a medical laboratory technician by testing biological samples using current technology to generate accurate, quality-assured laboratory results used for health and disease evaluations. Utilize critical thinking skills to assess and problem-solve laboratory data for patient diagnoses.

COURSE OUTCOME

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basics knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will include handling of instruments and sterilization techniques.

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IInd YEAR

Biochemistry

This course made the students competent enough to perform various laboratory test related to acute and chronic hematological disorders.

Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in hematology, immunohematology, coagulation profile and can handle automated instruments.

Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

IIIrd YEAR

Biochemistry

After completion of course students will have knowledge of enzymes and automation in Clinical Laboratory. Students would be able to understand contemporary methods and practical approaches that are used in the clinical laboratories for the investigation of the diseased state as well as application of automation in laboratory.

Pathology

Students would understand principle, procedure & demonstration of various tissue constituents and advance tools and the basics of transfusion medicine, laboratory testing, quality control and apheresis techniques. They would able to carry out tissue processing and general staining.

Microbiology

Students would be competent enough to have knowledge collection of specimens, preservation of bacteria, maintenance of stock cultures quality management system, biomedical waste management, calibration and validation of clinical laboratory instruments.

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PROGRAM OUTCOMES (B. Sc RADIO IMAGING TECHNOLOGY)

The Aim of B.Sc. in Radio Imaging Technology program is to provide highest and Atomic Energy Regulatory Board (AERB) accredited educational process through formal didactic and state-of-the-art clinical experiences that will render qualified, patient focused, compassionate, critical thinkers Medical Radiology and Imaging Technologist for the community who are engaged in lifelong learning.

PROGRAM SPECIFIC OUTCOMES (B. SC RADIO IMAGING TECHNOLOGY)

POS1: Should be able to undertake Mammography, CT scan and MRI procedures independently. Assist in specialized radiological procedures.

POS2: Able to do the image processing. Should be able to handle all radiological and imaging equipment independently. Should ensure radiation protection and quality assurance. Undertake care and maintenance of all radiological and imaging equipment.

POS3: Able to evaluate images for technical quality. Able to identify and manage emergency situations. Able to receive and document verbal, written and electronic orders in the patient's medical record.

COURSE OUTCOME

1st YEAR

Human Anatomy (Theory & Practical)

After completion of this course the students will come to know the fundamental knowledge and practical aspects on the structure and functions of various systems of Human body like cardiovascular system, sense organs, cell-function and division, skeletal system and joints.

Human Physiology (Theory & Practical)

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will able to explain the physiological systems of body and also understand the basis of diseases. Students will able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry (Theory & Practical)

After completion of this course the students will come to know about theoretical and practical biochemical facts associated with living cells at molecular levels. It also emphasizes about the genetic organization of mammalian genome and hetero and autocatalytic functions of DNA

Microbiology & Pathology (Theory & Practical)

After completion of this course the students will come to know the microorganisms used to produce alcohol, antibiotics, vaccines, vitamins and enzymes. It also provides the practical knowledge about the equipment used for experimental microbiology, processes like; sterilization, culturing methods, staining of microbes and microbiological assay of antibiotics. Curtaining of this course will lead the students to know about the causes of diseases and effects of the body to such diseases.

Radiation Physics (Theory)

Students will have an insight into the practical application of achievements of experimental physics in medicine. - Specific Competencies: Students will learn about the application of

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Radiation Physics (Theory)

Students will have an insight into the practical application of achievements of experimental physics in medicine. - Specific Competencies: Students will learn about the application of

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experimental physics (radioisotopes and ionizing radiation) in radiological techniques used in medical diagnostics, they will also learn main characteristics of radio diagnostic methods and optimization of the system of quality control in radio diagnostic procedures.

Radiation Physics (Theory & Practical)

Students will Understand the basic patient positioning during radiographic investigation. Apply special positioning skills for different pathological and physical conditions, Application of equipment while working in radiology departments, choose proper position during radiography, explain relative positions of x-ray tube and patient relevant exposure factors during radiography, explain the use of accessories, explain the anatomic and physiological basis of the procedure to be undertaken explain the radiographic appearances of both normal and common abnormal conditions.

IInd YEAR

Radiological Special Procedure (Theory & Practical)

Describe student positioning terms, demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

General Medicine (Theory)

Demonstrate knowledge about established and evolving biomedical and clinical sciences. Demonstrate ability to apply this knowledge to the perform of radiological procedure. Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic) General and local anaesthetic Analgesic (opioids, corticosteroids, NSAIDs)

IIIrd YEAR

New Imaging Modalities and Recent advance(Theory)

Understand the CLINICAL and TECHNICAL (including, the science and research) aspects of Radiology with advance technology such as CT, Ultrasound, MRI, Fluoroscopy, Nuclear Medicine, interventional radiology etc. Understand how to prepare patients for radiology studies (dealing with allergies, contras reactions, MRI safety, radiation exposure, etc.)

Radiation Physics and Darkroom Technique (Theory and Practical)

Students will be able to apply the fundamentals of radiology learned in the lecture course to produce quality diagnostic x-rays for the required portfolio, while using maximum safety for patients and patient. students will be able to list the darkroom techniques needed to develop diagnostic x-rays, including comparing both manual and automatic techniques.

Upon completion of this course, students will be able to apply the knowledge of the use of electrocardiograms (ECGs) and ultrasound, as they are used in clinical practice.

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Radiological special Procedures and Radiographic Positioning

Describe student positioning terms, Demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

4th year Internship

The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and advanced procedures in both areas. Students will participate in advanced and specialized treatment procedures. Students will learn both conventional and modern radiographic and imaging techniques. The student will complete the clinical training by practicing all the skills learned in classroom and clinical instruction.

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PROGRAM OUTCOMES (B. SC CARDIAC CARE TECHNOLOGY)

This program is aimed at training candidates for the job of a "Cardiac Care Technician", in the "Healthcare" Sector/Industry and aims at building the following key competencies amongst the learner.

PROGRAM SPECIFIC OUTCOMES

POS1: Independently handle the latest technology relevant to heart diseases, diagnosis & treatment. Know and apply the principles of sterilization, disinfection, infection control and aseptic techniques.

POS2: Perform invasive and non-invasive diagnostic examinations and therapeutic interventions of the heart and/or blood vessels under supervision. Ensure availability of medical and diagnostic supplies. Identify and know the instruments and equipment used in different Procedures.

COURSE OUTCOMES

Ist YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

IInd YEAR

Attended CTC Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in

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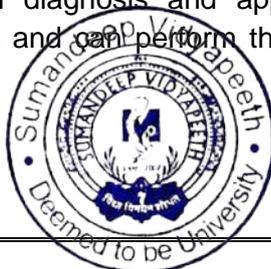
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haematology, immuno-hematology, coagulation profile and can handle automated instruments.

Applied Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

General medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

Applied Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,) General and local anaesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system

IIIrd YEAR

Introduction to Cardiac Care Technology

Basic understanding of Healthcare Service Providers (primary, secondary & tertiary) Basic understanding of cardiac department in a hospital. Basic understanding of Cath lab, CCU, invasive and non-invasive labs and various department pertaining to heart ailments/diagnosis/treatment

Advance aspect of Cardiac Care Technology

To develop broad understanding of the functions to be performed by CCT. To understand various types of procedures carried out in the cardiac catheterization laboratory and other labs carrying out advance diagnostic services in cardiology.

Clinical aspect of Cardiac Care Technology

To understand cardiovascular diseases & risk factors behind occurrence of cardiac abnormalities. To develop an understanding regarding various diseases of heart. To understand the significance of coronary circulation, systemic circulation, types of vessels etc. To Identify the warning signs and symptoms of heart related disease condition

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PROGRAM OUTCOMES (B. SC RENAL DIALYSIS TECHNOLOGY)

After completion of B.sc Renal Dialysis Technology, Student must be able to assist physicians by diagnosing and treating diseases of the heart and blood vessels and take the images of the heart and peripheral blood vessels through both invasive and non-invasive procedures, such as catheterization, balloon angioplasty, or the use of ultrasound equipment.

PROGRAM SPECIFIC OUTCOMES (B. SC RENAL DIALYSIS TECHNOLOGY)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities

Microbiology

Subject of microbiology will develop handling of instruments and sterilization techniques.

Health Care

Demonstrate technical skills, social behavior, and professional awareness imperative upon a dialysis technician. Demonstrate the ability to plan, organize and report different diagnosis related to treatments. Understand professional and ethical responsibilities in patient care.

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IInd YEAR

Concepts of renal disease & its management

To create competent professional in the area of Renal Dialysis and demonstrate the ability to plan, organize and report different diagnosis related to treatments. Understand professional and Concepts of renal disease & its management responsibilities in patient care.

Applied aspects of Pathology & Microbiology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments. Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

Applied anatomy & physiology related to dialysis Technology

An outline of anatomy and physiology will be provided to improve the students understanding of the technical and diagnostic procedures used with special emphasis on applied aspects.

Pharmacology related to Dialysis Technology

Students should able to describe the various drugs used for the treatment of kidney diseases and dialysis: which includes antibiotics, anti microbials, ionotropes, diuretics and anti – convulsant list, classify and describe in detail the various anti – hypertensives , their action, indication, side effects and adverse drug responses, describe the dualizability of drugs, Comprehend the drug adjustments to be made for varying degrees of renal dysfunction, Enumerate the action, indication, dosage, routes & side effects in detail of erythropoietin and intra venous iron, comprehend and describe the action, indication, dosage, route of administration & side effects of heparin in Hemodialysis, Comprehend the use of various anti septics, formalin, sodium hypochlorite and hydrogen peroxide and its uses in sterilization and disinfection of dialysers, tubings and dialyser machine.

IIIrd YEAR

Applied dialysis Technology

On completion of the course the students will be able to: 1. Comprehend the various modalities of renal replacement therapy with the knowledge of merits and demerits of each. 2. Comprehend the principles of hemo dialysis, the various forms of hemodilysis and when each is to be used in the clinical setting. 3. List and describe the various vascular access devices used in Hemodialysis and its complications. 4. Differentiate between peritoneal dialysis, SLED, CRRT, High efficiency dialysis & Hemodialysis in terms of purpose, indications, advantages, disadvantages and the responsibilities of a technologist. 5. Practice and perform independently the water maintenance for the Hemodialysis room. 6. Independently maintain the Hemodialysis machine with respect to disinfection and priming.

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Advance dialysis Technology

Comprehend the process of dialysis, the role of a technologist with respect to the pre, intra & post-dialysis process. • Enumerate the various drugs used during the dialysis process. •

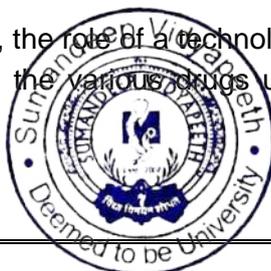
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Describe the nutrition requirement for a patient with chronic kidney disease & acute kidney injury, & prepare a health teaching plan for the same. • Manage the anticoagulation on patients on dialysis. • Enumerate on the various complications of Hemodialysis in terms of the technologist's responsibility in prevention and worsening of the complications. • Describe the process of peritoneal dialysis, the indications, dialysate required and the various complications. • Start and close Hemodialysis sessions independently.

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PROGRAM OUTCOMES (B. SC ANESTHESIA CARE TECHNOLOGY)

Provide safe and quality patient care by incorporating technical and critical thinking and clinical reasoning in assisting the anaesthesia provider with patients of all types, ages, and physical conditions for a variety of surgical and medical related procedures. Display current and emerging standards of care as an anaesthesia technologist professional along with devoting themselves to lifelong learning.

PROGRAM SPECIFIC OUTCOMES (B. SC ANESTHESIA CARE TECHNOLOGY)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students.

Microbiology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

Principles of Anesthesia -I

Understands the many facets of the science of safe anaesthetic practice including physiology, clinical measurement, pharmacology and physics and how the anaesthetist uses

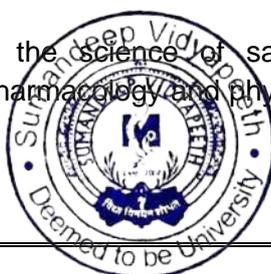
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this science for the care of the surgical patient. Understands the anaesthetic management and pathophysiological implications of a broad range of major medical co-morbidities e.g. ischaemic heart disease, valvular heart disease, chronic lung disease, musculoskeletal disorders, rheumatoid arthritis, on the risks and conduct of safe anaesthesia (general and regional) and surgery

General Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,) General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system

General Medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

IIIrd YEAR

Principles of Anesthesia

Understands the importance of a detailed pre-operative assessment and how that should be carried out. ♣ Understands the importance of informed consent. Understands the considerations in optimising patients with a broad range of underlying medical conditions for elective surgery.

Sterilization Procedures and Bio-Medical Waste

Understanding the correct way to respond to and prevent disease outbreaks. Managing disease through proper sterilization techniques. Professionalism in a healthcare setting. The components of the healthcare system. Safety standards necessary for sterilization. To characterize the waste and apply the knowledge of laws for municipal solid waste management, for handling of biomedical wastes and for handling of plastic wastes.

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PROGRAM OUTCOME (B. SC PERFUSION CARE TECHNOLOGY)

Perfusion Technologists prepare and operate heart-lung machines and other sophisticated equipment as directed by healthcare physicians. Perfusionists measure blood pressure and other parameters to identify appropriate mechanical, pharmacological and thermal manipulation to maintain tissue viability.

PROGRAM SPECIFIC OUTCOME (B. SC PERFUSION CARE TECHNOLOGY)

Perfusionist must have a thorough understanding of both respiratory and circulatory systems, and be able to operate complex equipment. Additionally, the Perfusionist must be capable of handling stressful situations, paying great attention to detail, communicating effectively, and willing to stay abreast of new developments in the profession.

COURSE OUTCOME

IST YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned.

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

IInd YEAR

Course 1: Applied Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohaematology, coagulation profile and can handle automated instruments.

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Applied Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

General medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

Applied Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life). Administration of pharmacological agents (Routes of administration), Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic), General and local anesthetic, Analgesic (opioids, corticosteroids, NSAIDs), Drugs related cardiovascular system.

IIIrd YEAR

Introduction to Perfusion Care Technology

Students will understand the use of equipment in CPB and also hand on training with the equipment and materials used. Students will be able to understand the principles and use of all the equipments and its making. Students will be able to collect the data before and at the time of surgery for equipment evaluation.

Clinical Aspect of Perfusion Care Technology

To learn the pharmacokinetics and pharmacodynamics during cardiopulmonary bypass. Dealing with conduction and termination of cardiopulmonary bypass and problems associated with it. Dealing with conduction and termination of cardiopulmonary bypass. Selection of appropriate equipment and instruments.

Applied Perfusion Care Technology

Techniques that can minimize the ill effects of the machinery and to improve patient outcome and the activated systemic inflammatory response system.

Advance Perfusion Care Technology

Use of machinery and amenities during emergency cases and conditions. Management of complications related to bypass and advanced extra corporeal life support. Team management of perfusion accidents and management.

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PROGRAM OUTCOME (B. SC NEURO SCIENCE TECHNOLOGY)

Neurology and Neurosurgery assistant students must demonstrate core knowledge about established and evolving biomedical and clinical sciences and the application of this knowledge to patient care in their area of practice. and you will get to develop collaborative and beneficial professional relationships not just with your supervising neurosurgeon, but also with all the other members of the medical team.

PROGRAM SPECIFIC OUTCOME (B. SC NEURO SCIENCE TECHNOLOGY)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Pathology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities.

Basics of electronic concepts related to Neurophysiology

The student will get an in-depth understanding of mechanisms related to neurotransmitter signaling and glial-neuronal interactions in health and disease.

The student will get an in-depth understanding of the overall organization of the vertebrate nervous system, including prevailing concepts on systems-level organization of the CNS.

Neuro electrophysiology lab and DSA lab

At the end of the course the students will acquire the general principle of the functional organization of the nervous system.

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Communication Skills and Personality Development

Improve their fluency in English. Participate in class discussions and question-answer sessions with confidence Improve their vocabulary and utilize English as the only medium of communication. Comprehend the basics of letter writing and formatting of a letter. Understand the various types of letters used for written communication. Effectively write a report using grammatical sentences.

IInd YEAR

Neuro-anatomy

To describe the basic features of development of the nervous system and to understand how and why common malformations occur in the nervous system. (iii) To understand the ultrastructure of neurons and glia and the major cytoarchitectural features of the brain and spinal cord.

Neurophysiology

The course is aimed to provide: a) the neurophysiological bases of the cerebral functions; b) the general principles of neurobiology; c) the organization of sensory and motor systems; d) analysis of the control systems of visceral functions and of homeostasis and motor systems will be illustrated, and finally we will study systems controlling visceral functions, homeostasis, sleep-wakefulness rhythms and emotions.

Neuro-Biochemistry

The course covers experimental methods for studying transmitter release and its regulation, conversion of second messengers and their interactions, cross-talk among receptors, protein phosphorylation as a response to receptor activity, the activity and regulation of ion channels

Clinical practice EEG in OPD

Students will able to understand the basics of EEG introduction, EEG recording systems, Understanding EEG waveforms, Applications of EEG analysis

IIIrd YEAR

Basics of EEG

The students will be able to Define the components of the motor unit Draw the Brachial Plexus, including the terminal nerves • List the nerve root level and peripheral nerve innervation of upper and lower extremity muscles • Describe the nerve root and peripheral nerve innervation of the skin in both the upper and lower extremity • Describe microanatomy of the axon-membrane and supporting structure • Compare the structure of myelinated and unmyelinated nerves • Identify the microanatomy of muscle, i.e., sarcomere, T-tubules, action, myosin, etc • Describe nerve and muscle membrane physiology such as potential and permeability • Compare impulse propagation in myelinated and unmyelinated nerves • Describe muscle contraction in microscopic terms, i.e., actin-myosin binding, ratcheting effect, sarcomere shortening • Describe the response of the peripheral nervous system to injury

Basics of EMG & NCV

The students will be able to Analyze a normal motor unit potential's morphology (shape, size, and phases) and recruitment pattern on needle EMG exam • Define the initial deflection, duration, amplitude, rate, rhythm, length, and diagnostic significance of these

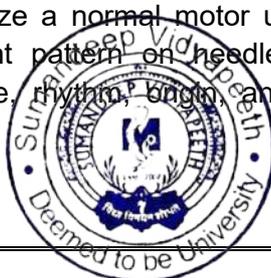
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potentials: miniature endplate potentials, end plate potentials, fibrillations, positive waves, fasciculations, myotonia, myokymia, complex repetitive discharges, pseudomyotonia, tremor and cramp discharges, 60 cycle interference and artifacts • Explain the reason why fibrillations and positive sharp waves are commonly seen in myopathy • Describe typical electromyographic findings in muscle disease • Describe the electromyographic findings in neuropraxia, axonotmesis, and neuronotmesis over time in terms of spontaneous activity, recruitment, and motor unit action potential morphology • Know key muscles for cervical and lumbar radiculopathy

Patient care management and clinical care

The students will be able to Perform a comprehensive electrodiagnostic evaluation of each patient and to provide a concise diagnosis and plan for further treatment • Describe the variety of conditions frequently encountered in electrodiagnostic medicine • Determine a logical approach of testing for each individual condition • Discuss the electrophysiology of common normal and abnormal findings encountered in Electromyography and Nerve conduction studies (EMG/NCS) • Develop an extensive knowledge base of neuromuscular anatomy • Familiarize oneself with the EMG/NCS machine and be able to troubleshoot common errors and problems encountered in EMG/NCS testing • Identify patient and family concerns associated with the testing process as well as the results • Define the patient safety issues with EMG/NCS including proper maintenance, inspection of the machine, and risk of blood borne pathogen exposure • Obtain appropriate informed consent for the procedure • Respect that the patient is experiencing an uncomfortable procedure • Complete an Electrodiagnostic Medicine Proctored Clinical Exam (CEX)

Neuro electrophysiology lab and DSA lab

The aim of the course is to provide the neurophysiological bases of cerebral functions, in particular referring to nervous substrate and to functional mechanisms. Our behaviors are variations of neural activity which can be evaluated as biochemical, molecular and neuro transmitter changes. This is valid for simple behaviors (e.g. motor activity) and for superior cognitive functions that we consider peculiar to human beings. To better understand the neural bases of cerebral functions, first of all general notions of neurobiology will be described, including membrane cell physiology and synaptic interaction. Then the organization of sensory

Environmental Science

Understand core concepts and methods from ecological and physical sciences and their application in environmental problem-solving. Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.

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PROGRAM OUTCOME (BSC. IN TRAUMA CARE AND EMERGENCY MANAGEMENT)

To demonstrate competency in the knowledge and skills in providing comprehensive nursing care based on problem solving approach in the hospital and community. To demonstrate competency in the skills and techniques of nursing based on concepts and principles from selected areas of physical, biological and behavioral sciences. The student is professionally competent to be a member of health team in meeting the promotive, preventive and restorative health needs of the society.

PROGRAM SPECIFIC OUTCOME (BSC. IN TRAUMA CARE AND EMERGENCY MANAGEMENT)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Management.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Applied Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

Triage And General Emergencies

To demonstrate competency in the skills and techniques of nursing based on concepts and principles from selected areas of physical, biological and behavioural sciences. Demonstrate

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knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

IInd YEAR

Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs)

Medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

IIIrd YEAR

Basic of Critical Care Services

Understand the needs of critically ill patient. • Identify the appropriate action for critical situations. • Prioritize actions according to the needs of the situation utilizing critical thinking process.

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PROGRAM OUTCOMES (B. SC IN CLINICAL RESEARCH)

The Aim of B.Sc Clinical Research program is to demonstrate competency in biopharmaceutical clinical trial research designs and regulatory affairs management to meet the health and medical needs of current and future biopharmaceutical product consumer. Evaluate critical domestic and global regulatory and health care issues that challenge and influence biopharmaceutical product development

PROGRAM SPECIFIC OUTCOMES (B. SC IN CLINICAL RESEARCH)

- Effectively access and manage ethical clinical trial programs and biopharmaceutical development projects.
- Forecast the resources necessary for developing and managing biopharmaceutical clinical research grants and trials as required and regulated by global regulatory agencies.
- Demonstrate competencies in evaluating clinical research data and communicating results.
- Manage innovative biopharmaceutical/biotechnology products through the discovery processes and into the clinical trial phases via identifying research questions and testable hypotheses.
- Demonstrate advanced critical thinking skills necessary to enhance employment opportunities or advance within the biopharmaceutical industry.
- Effectively communicate and collaborate with health care providers and regulatory agencies to develop culturally diverse domestic and global strategies for biopharmaceutical product approvals.

COURSE OUTCOMES

1st YEAR

Pharmacology

At the end of the course student will learn about the specific pharmacology of the major drugs and drug classes currently used in medical practice including their indications, contraindications, clinical use, mechanisms of action, physiological effects, pharmacokinetic properties, major adverse effects and clinically significant drug.

Clinical Research

At the end of the course student will learn about the Clinical research that determines the safety and effectiveness (efficacy) of medications, devices, diagnostic products and treatment regimens intended for human use which may be used for prevention, treatment, diagnosis or for relieving symptoms of a disease

Medicine

At the end of the course student will learn about the health and healing. Also learn about the diagnosis, treatment, and prevention of disease, medical research, and many other aspects of health.

Biostatistics

At the end of the course student will have knowledge of Biostatistics are the development and application of statistical methods to a wide range of topics in biology. It also included the

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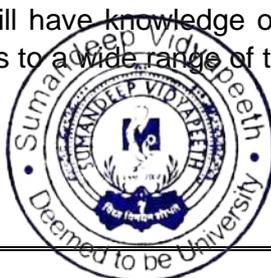
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design of biological experiments, the collection and analysis of data from those experiments and the interpretation of the results.

IInd YEAR

Pharmacology

At the end of the course student should be able to apply knowledge of the pharmacology of the major drugs and drug classes currently used in medical practice, together with both disease-specific and patient-specific factors to select the most appropriate medication(s) for the effective pharmacotherapy of a given disease or condition in a specific patient

Clinical Research

At the end of the course student will learn about the Clinical research which determines the safety and effectiveness (efficacy) of medications, devices, diagnostic products and treatment regimens intended for human use which may be used for prevention, treatment, diagnosis or for relieving symptoms of a disease.

General Medicine

At the end of the course student will learn about the health and healing. Also learn about the diagnosis, treatment, and prevention of disease, medical research, and many other aspects of health.

Biostatistics

At the end of the course student will have knowledge of Biostatistics are the development and application of statistical methods to a wide range of topics in biology. It also included the design of biological experiments, the collection and analysis of data from those experiments and the interpretation of the results.

IIIrd YEAR

Pharmacology

At the end of the course student will have knowledge of the pharmacology of the major drugs and drug classes currently used in medical practice, together with both disease-specific and patient.

Clinical Research-I

At the end of the course student will have knowledge of clinical trials in the effect of an intervention. Also learn the treatment regimens intended for human use which may be used for prevention, treatment, diagnosis or for relieving symptoms of a disease

Clinical Research-II

At the end of the course student will have knowledge of clinical trials which include the important of discovering new treatments for diseases, as well as new ways to detect, diagnose, and reduce the chance of developing the disease.

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PROGRAM OUTCOMES (B. SC MEDICAL RECORDS AND MIS)

To have an exposure to the vast strides in the classification and codification of drugs, diseases and their treatment, and in the organization of hospitals. To acquire sufficient knowledge of the prevailing system of scientific documentation with computerization, information search and retrieval. To acquire knowledge of the networking of hospitals and institutions by the Internet and Intranet.

PROGRAM SPECIFIC OUTCOMES (B. SC MEDICAL RECORDS AND MIS)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

Ist YEAR

Fundamentals of Pre and Para clinical subjects

To get familiarity with large databases dealing with various categories of entities such as diseases, anatomical parts, pathological conditions, symptoms, drugs and concepts such as 'data mining'

Medical Terminology I

To acquire knowledge of the current trends in Medical Record Science like health insurance and third party payers.

Communication skills

Apply effective communication skills and strategies in interactions with multidisciplinary and multi-facility professionals.

Medical Record Sciences

To acquire sufficient knowledge of the prevailing system of scientific documentation with computerization, information search and retrieval.

IInd YEAR

Biostatistics and Hospital Statistics

This course defines biostatistics as "the science of collecting and analyzing biologic or health data using statistical methods." The use of statistics in health care dates back more than a century to the earliest application of the scientific method in medical research

Information Technology

This course will provide knowledge of design, development, implementation, support or management of computer-based information systems—particularly software applications and computer hardware. IT workers help ensure that computers work well for people

Medical Terminology II

To acquire knowledge of the current trends in Medical Record Science like health insurance and third party payers and hospital management system.

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SUMANDEEP VIDYAPEETH

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Health Information Management & Nomenclature

To acquire knowledge of the collection analysis, storage and protection of the quality of patient health information. The HIM professional must have a wide range of knowledge, including HIPAA laws that protect patient privacy, data analysis and how to harness computer systems that collect data.

IIIrd YEAR

International Classification of Diseases (ICD-10) and Surgical Procedures (ICD -9 CM) , CPT, HCPCS

This course will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques

Hospital Organization and Administration, Medical Ethics and Consumer

Medical Records and MIS enable students to acquire knowledge and skill in Medical Record Science and information.

Hospital Accounting and Financial Accounting and Health insurance and billing Design

To acquire sufficient knowledge of the prevailing system of scientific documentation with computerization, information search and retrieval.

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PROGRAM OUTCOME (B. SC HEALTH EDUCATION)

Assess individual and community needs for health education. Plan effective health education programs. Implement health education programs. Evaluate the effectiveness of health education programs. Coordinate provisions of health education services. Act as a resource person and Communicate health and health education needs, concerns and resources.

PROGRAM SPECIFIC OUTCOMES (B. SC HEALTH EDUCATION)

POS 1: After Graduates degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Graduates degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

Ist YEAR

Introduction to Health education

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information. This curriculum can stimulate the students to understand the basic Health education.

Health and Nutrition

Use the nutrition care process to make decisions, to identify nutrition-related problems and determine and evaluate nutrition interventions. Develop interventions to affect change and enhance wellness in diverse individuals and groups. Develop an educational session or program/educational strategy for a target population. Apply management theories to the development of programs or services. Apply safety principles related to food, personnel and consumers. Analyze data for assessment and evaluate data to use in decision-making.

Biochemistry

After completion of this course the students will come to know about theoretical and practical biochemical facts associated with living cells at molecular levels. It also emphasizes about the genetic organization of mammalian genome and hetero and autocatalytic functions of DNA

Pathology & Microbiology

After completion of this course the students will come to know the microorganisms used to produce alcohol, antibiotics, vaccines, vitamins and enzymes. It also provides the practical knowledge about the equipment used for experimental microbiology, processes like; sterilization, culturing methods, staining of microbes and microbiological assay of antibiotics.

IInd YEAR

Public Health

Students will learn how to Framework the sets to context for the system, from local to national level. The framework will set out the broad range of opportunities to improve and protect health across the life course and to reduce inequalities in health that still persist

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Non- Communicable Diseases

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

IIIrd YEAR

Health Education

Students will learn the social science that draws from the biological, environmental, psychological, physical and medical sciences to promote health and prevent disease, disability and premature death through education-driven voluntary behavior change activities

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PROGRAM OUTCOMES (B. SC MEDICAL SOCIAL WORK)

Help formulate graduate attributes, qualification descriptors, programme learning outcomes and course learning outcomes that are expected to be demonstrated by the holder of a qualification. Enable prospective students, parents, employers and others to understand the nature and level of learning outcomes (knowledge, skills, attitudes and values) or attributes a graduate of a programme should be capable of demonstrating on successful completion of the programme of study. To help the learner acquire professional skills and develop capacity in helping people to solve various social and economic problems. To help the learner to develop required attitudes in understanding people's problem-solving interventions

PROGRAM SPECIFIC OUTCOMES (B. SC MEDICAL SOCIAL WORK)

POS 1: Maintain national standards and international comparability of learning outcomes and academic standards to ensure global competitiveness, and to facilitate student/graduate mobility

POS 2: Provide higher education institutions an important point of reference for designing teaching-learning strategies, assessing student learning levels, and periodic review of programmes and academic standards

COURSE OUTCOME

Ist YEAR

Origin and Development of Social Work (Theory)

After studying this course, student should be able to: identify why biography is important, understand how identity and attachment theory contribute to social work practice, recognise what qualities service users/carers value in social workers, understand what values are integral to a professional social worker's identity, understand what it means to practise reflectively.

Professional Social Work : Indian Perspectives (Theory)

Able to understand the fundamental concepts of social work profession in order to develop an insight about professional attitude and attribute; 2) Capable to demonstrate the awareness about values and ethics of the social work profession.

Basic Social Science Concepts

Able to understand the genesis and the current scenario of social problems; Capable to understand the basic concepts related to contemporary Indian social concerns.

IInd YEAR

Social Work and Social Development (Theory)

Capable to understand the concepts, problems, policies and programs related to youth. Familiar with the concepts and processes of social policy, planning & development. Able to understand the significance of social policy & development in social work practice.

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Social Work Practicum and Supervision (Theory)

Capable to understand the contemporary areas of social work practice. Able to understand the needs & problems, policy framework, programmes, various institutional & non-institutional services and social work interventions related these areas

Social Work Practical

Capable to understand the contemporary areas of social work practice. Able to understand the needs & problems, policy framework, programmes, various institutional & non-institutional services and social work interventions related these areas

IIIrd YEAR

Case Work and Counselling: Working with individuals

Able to understand the concepts, problems, policies and programs related to aged. Understand the social work practice for working with elderly, Able to understand the community, its structure and various aspects; Capable to understand the methodology, tools, techniques and skills to work directly in the society.

Social Group Work: Working with groups

Able to demonstrate the familiarity with Group Work process; Capable to understand the methodology, tools, techniques and skills required for working with groups. Able to understand the conceptual and theoretical aspects of palliative care in social work. Capable to develop the competence to address sensitive vital issues in palliative care practice.

Community Organization Management for Community Development

Able to understand the social welfare administration in order to get an insight about service delivery system; Able to understand the basics of entrepreneurial skills by learning the functioning of an NGO.

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PROGRAM OUTCOME - DIPLOMA MEDICAL LABORATORY TECHNOLOGY

The course provides learning in the prevention, diagnosis, and treatment of diseases in patients through clinical laboratory tests. After successfully completing this course, candidates can perform activities such as analysing human body fluids, assisting the concerned doctor in the treatment of diseases and detecting the presence or absence of certain microorganisms in the patient's body.

PROGRAM SPECIFIC OUTCOME- DIPLOMA MEDICAL LABORATORY TECHNOLOGY

POS1: As a lab technician, they must learn the techniques of collecting samples for routine and specialized tests, conduct the tests and know how to analyse the outcomes of the test.

POS2: Utilize critical thinking skills to assess and problem-solve laboratory data for patient diagnoses.

COURSE OUTCOME

Ist YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases.

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals..

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Subject of microbiology will develop handling of instruments and sterilization techniques.

IInd YEAR

Biochemistry

This course made the students competent enough to perform various laboratory test related to acute and chronic haematological disorders.

Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common haematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

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Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

IIIrd YEAR

Biochemistry

After completion of course students will have knowledge of enzymes and automation in Clinical Laboratory. Students would be able to understand contemporary methods and practical approaches that are used in the clinical laboratories for the investigation of the diseased state as well as application of automation in laboratory.

Pathology

Students would understand principle, procedure & demonstration of various tissue constituents and advance tools and the basics of transfusion medicine, laboratory testing, quality control and apheresis techniques. They would able to carry out tissue processing and general staining.

Microbiology

Students would be competent enough to have knowledge collection of specimens, preservation of bacteria, maintenance of stock cultures quality management system, biomedical waste management, calibration and validation of clinical laboratory instruments.

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PROGRAM OUTCOMES (DIPLOMA X-RAY TECHNOLOGY)

This course is to provide diploma X-ray technician with the knowledge, clinical skills, and compassion that will allow them to become exemplary radiology imaging in various institute like radiology department, research centre, diagnostic centre etc.

PROGRAM SPECIFIC OUTCOME (DIPLOMA X-RAY TECHNOLOGY)

At the completion of this course, the student should be -

POS1: Able to work in the hospital radiology department, at the patient's bedside, in the operating room or Emergency or in private imaging clinics/ centers.

POS2: Should be able to assist the use of X-ray, CT scan, fluoroscopy to produce images of organs and body parts.

POS3: Demonstrate sufficient understanding of basic science related to the technology and be able to integrate such knowledge in his/her work.

POS4: Act upon his/her job description ethically keeping in mind the requirements of the community at large.

POS5: Demonstrate empathy and humane approach towards communities and exhibit interpersonal behavior in accordance with the societal norms and expectations.

POS6: To integrate the academic environment with the clinical setting. and Manage information to enable effective, timely, accurate, and cost-effective reporting of related information

COURSE OUTCOMES

1st YEAR

Human Anatomy (Theory & Practical)

After completion of this course the students will come to know the fundamental knowledge and practical aspects on the structure and functions of various systems of Human body like cardiovascular system, sense organs, cell-function and division, skeletal system and joints.

Human Physiology (Theory & Practical)

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will able to explain the physiological systems of body and also understand the basis of diseases. Students will able to understand functioning of various systems included in syllabus as well as diseases mentioned

Pathology (Theory)

Demonstrate an understanding the fundamental and basic concept of pathology including cell death and injury, inflammation, thrombosis and neoplasia etc.

Radiation Physics (Theory)

Students will have an insight into the practical application of achievements of experimental physics in medicine. - Specific Competencies: Students will learn about the application of experimental physics (radioisotopes and ionizing radiation) in radiological techniques used in medical diagnostics, they will also learn main characteristics of radiodiagnostic methods and optimization of the system of quality control in radiodiagnostic procedures.

Radiation Physics (Theory & Practical)

Understand the basic patient positioning during radiographic investigation. Apply special positioning skills for different pathological and physical conditions. Application of equipments

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while working in radiology departments. Choose proper position during radiography. Explain relative positions of x-ray tube and patient relevant exposure factors during radiography. Explain the use of accessories. Explain the anatomic and physiological basis of the procedure to be undertaken. Explain the radiographic appearances of both normal and common abnormal conditions.

IInd YEAR

Radiological Special Procedure (Theory & Practical)

Describe student positioning terms, Demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

Darkroom Technique and new imaging modalities (Theory and Practical)

Students will be able to apply the fundamentals of radiology learned in the lecture course to produce quality diagnostic x-rays for the required portfolio, while using maximum safety for personnel and patient. Students will be able to list the darkroom techniques needed to develop diagnostic x-rays, including comparing both manual and automatic techniques. Understand the advance technology such as CT, Fluoroscopy, interventional radiology etc.

Radiological special Procedures and Radiographic Positioning

Describe student positioning terms, demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

IIIRD YEAR INTERNSHIP

The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and advanced procedures in both areas. Students will participate in advanced and specialized treatment procedures. Students will learn both conventional and modern radiographic and imaging techniques. The student will complete the clinical training by practicing all the skills learned in classroom and clinical instruction.

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PROGRAM OUTCOME (DIPLOMA ELECTROGRAPHY AND ELECTROTHERAPY TECHNOLOGY)

Demonstrate leadership, teamwork and decision making in the management of critical case in ambulance. Plan and implement clinical and scientific activities related to the cardiovascular disease.

PROGRAM SPECIFIC OUTCOME (DIPLOMA ELECTROGRAPHY AND ELECTROTHERAPY TECHNOLOGY)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 4: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

2nd YEAR

Basic Electrocardiography (ECG)

An Electrography and Electrography Technician should have knowledge of moral values and

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disciplines of the medical field.

Advanced Electrocardiography (ECG)

Electrography and Electrography Technician able to independently handle the latest technology relevant to heart diseases and able to perform Electrograph.

Pharmacology related to cardiac care technology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,), General and local anaesthetic, Analgesic (opioids, corticosteroids, NSAIDs), Drugs related cardiovascular system

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PROGRAM OUTCOMES

(DIPLOMA BASIC AND ADVANCE LIFE SUPPORT TECHNOLOGY)

Basic and Advance Life Support Technology will be able to provide the basic knowledge to recognize a life-threatening emergency and provide life support when responding to an airway obstruction or cardiac arrest.

PROGRAM SPECIFIC OUTCOME

(DIPLOMA BASIC AND ADVANCE LIFE SUPPORT TECHNOLOGY)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSES OUTCOMES

1st YEAR

Sudden Cardiac Arrest

Students will learn about definition, causes, signs and symptoms of sudden cardiac arrest

Early Defibrillation

Students will learn about purpose of early defibrillation, benefits of early CPR, indications of defibrillation and how it is done.

Chain of Survival

Students will learn about the chain of survival that refers to a series of actions that, properly executed, reduce the mortality associated with sudden cardiac arrest. The four interdependent links in the chain of survival are early access, early CPR, early defibrillation, and early advanced cardiac life support.

Secondary Cardiac Arrest

Students will learn about definition, causes, signs and symptoms of secondary cardiac arrest

Secondary Cardiac Arrest-Children and Infants

Students will learn about definition, causes, signs and symptoms of secondary cardiac arrest in children and infants

Secondary Cardiac Arrest-Opioid Overdose

Personal Safety

Students will learn about the personal safety to be taken care of during the emergency.

Standard Precautions

Students will learn about the standard precautions to be taken care of during procedure.

Personal Protective Equipment

Students will learn about the care and handle of equipment.

Calling for Help

Students will be trained how to call for help during emergency

High Performance CPR Chest Compressions

Students will be taught how to do chest compressions

Rescue Breaths-CPR Masks

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Students will be taught how to use Rescue breaths

Rescue Breaths-Bag Mask

Students will be taught how to use Rescue breaths

IInd YEAR

Automated External Defibrillation

Students will learn about portable electronic device

BLS Assessment

Students will learn following elements: initial assessment, airway maintenance, expired air ventilation (rescue breathing; mouth-to-mouth ventilation) and chest compression. When all are combined the term cardiopulmonary resuscitation (CPR) is used

Recovery Position

Students will learn about recovery positions.

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PROGRAM OUTCOME (DIPLOMA RENAL DIALYSIS TECHNOLOGY)

Demonstrate technical skills, social behaviour, and professional awareness imperative upon a dialysis technician. Demonstrate the ability to plan, organize and report different diagnosis related to treatments. Understand professional and ethical responsibilities in patient care. Demonstrate technical skills, social behaviour, and professional awareness imperative upon a dialysis technician. Demonstrate the ability to plan, organize and report different diagnosis related to treatments. Understand professional and ethical responsibilities in patient care.

PROGRAM SPECIFIC OUTCOME (DIPLOMA RENAL DIALYSIS TECHNOLOGY)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

Attended CTC

Healthcare students acquire the knowledge of maintenance or improvement of health via the prevention, diagnosis, treatment, recovery, or cure of disease, illness, injury, and other physical and mental impairments in people.

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IInd YEAR

Concepts of renal disease & its management

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Applied aspects of pathology & microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. Able to carry out differential diagnosis of disease by the help of serological techniques.

Applied anatomy & physiology related to dialysis technology

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to renal anatomy and Physiology.

Pharmacology Related to Dialysis Technology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life), Administration of pharmacological agents (Routes of administration), Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic), General and local anaesthetic, Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system

Applied Dialysis Technology

Demonstrate technical skills, social behavior, and professional awareness imperative upon a dialysis technician. Demonstrate the ability to plan, organize and report different diagnosis related to treatments. Understand professional and ethical responsibilities in patient care.

Advance Dialysis Technology

Students will learn advance technique for renal Dialysis and demonstrate the ability to plan, organize and report different diagnosis related to treatments.

Attested CTC


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PROGRAM OUTCOMES (DIPLOMA RADIOLOGY IMAGING TECHNOLOGY)

This course is to provide diploma radiology imaging technician with the knowledge, clinical skills, and compassion that will allow them to become exemplary radiology imaging in various institute like radiology department, research Centre, diagnostic Centre etc.

PROGRAM SPECIFIC OUTCOMES (DIPLOMA RADIOLOGY IMAGING TECHNOLOGY)

POS1: Should be able to undertake Mammography, CT scan and MRI procedures independently, assist in specialized radiological procedures, Able to do the image processing.

POS2: Should be able to handle all radiological and imaging equipment independently, should ensure radiation protection and quality assurance, undertake care and maintenance of all radiological and imaging equipment, Able to evaluate images for technical quality.

POS3: Able to identify and manage emergency situations, Able to receive and document verbal, written and electronic orders in the patient's medical record, should have computer skills, should be able to provide empathetic professional patient care.

POS4: Able to demonstrate professional growth, sense of professionalism and desire to learn. Able to demonstrate the core values of caring, integrity and discovery, to exhibit keen interest, initiative & drive in the overall development of the Department and 'Leadership Qualities' for others to follow.

POS5: He / She is expected to be confident and to perform all the duties diligently with utmost sincerity and honesty, any other duty/task/work assigned by any higher authority like Director, Dean, Medical Superintendent, Head of the Department from time to time; either in "Public Interest" or in the interest of upkeep / development of the Department / Institutions.

COURSE OUTCOMES

1st YEAR

Human Anatomy (Theory & Practical)

After completion of this course the students will come to know the fundamental knowledge and practical aspects on the structure and functions of various systems of Human body like cardiovascular system, sense organs, cell-function and division, skeletal system and joints.

Human Physiology (Theory & Practical)

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will able to explain the physiological systems of body and also understand the basis of diseases. Students will able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry (Theory & Practical)

After completion of this course the students will come to know about theoretical and practical biochemical facts associated with living cells at molecular levels. It also emphasizes about the genetic organization of mammalian genome and hetero and autocatalytic functions of

DNA

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Microbiology & Pathology (Theory & Practical)

After completion of this course the students will come to know the microorganisms used to produce alcohol, antibiotics, vaccines, vitamins and enzymes. It also provides the practical knowledge about the equipment used for experimental microbiology, processes like;

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sterilization, culturing methods, staining of microbes and microbiological assay of antibiotics. Curtaining of this course will lead the students to know about the causes of diseases and reactions of the body to such diseases.

Radiation Physics (Theory)

Students will have an insight into the practical application of achievements of experimental physics in medicine. - Specific Competencies: Students will learn about the application of experimental physics (radioisotopes and ionizing radiation) in radiological techniques used in medical diagnostics, they will also learn main characteristics of radiodiagnostic methods and optimization of the system of quality control in radiodiagnostic procedures.

Radiation Physics (Theory & Practical)

Understand the basic patient positioning during radiographic investigation, apply special positioning skills for different pathological and physical conditions, application of equipments while working in radiology departments, choose proper position during radiography, explain relative positions of x-ray tube and patient relevant exposure factors during radiography, explain the anatomic and physiological basis of the procedure to be undertaken, explain the radiographic appearances of both normal and common abnormal conditions.

IInd YEAR

Radiological Special Procedure (Theory & Practical)

Describe student positioning terms, demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

Darkroom Technique and new imaging modalities (Theory and Practical)

Students will be able to apply the fundamentals of radiology learned in the lecture course to produce quality diagnostic x-rays for the required portfolio, while using maximum safety for personnel and patient. Students will be able to list the darkroom techniques needed to develop diagnostic x-rays, including comparing both manual and automatic techniques. Understand the advance technology such as CT, Ultrasound, MRI, Fluoroscopy, interventional radiology etc.

Radiological special Procedures and Radiographic Positioning

Describe student positioning terms, Demonstrate proper use of positioning skills, Cite the structures demonstrated on routine radiographic procedures, evaluate images for positioning, centering, appropriate anatomy and overall image quality, discuss equipment and supplies necessary to complete radiographic procedures, list basic and special projections for each area of interest, apply general radiation safety and protection practices associated with radiologic examinations.

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IIIrd YEAR INTERNSHIP

The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence

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in beginning, intermediate, and advanced procedures in both areas. Students will participate in advanced and specialized treatment procedures. Students will learn both conventional and modern radiographic and imaging techniques. The student will complete the clinical training by practicing all the skills learned in classroom and clinical instruction.

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PROGRAM OUTCOME (DIPLOMA ANESTHESIA TECHNOLOGY)

Provide safe and quality patient care by incorporating technical and critical thinking and clinical reasoning in assisting the anesthesia provider with patients of all types, ages, and physical conditions for a variety of surgical and medical related procedures. Display current and emerging standards of care as an anesthesia technologist professional along with devoting themselves to lifelong learning. Attend to the various needs of diverse multicultural and complex client populations in the delivery of culturally competent care. Positively influence health care policy decisions and participate in activities which enhance anesthesia technologists' role in improved patient care and as an advocate for patients, families, and community.

PROGRAM SPECIFIC OUTCOME (DIPLOMA ANESTHESIA TECHNOLOGY)

POS1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS2: Diploma degree are able to contribute in all the health programs of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Introduction to Anesthesia Technology

Provide safe and quality patient care by incorporating technical and critical thinking and clinical reasoning in assisting the anesthesia provider with patients of all types, ages, and physical conditions for a variety of surgical and medical related procedures.

Human Anatomy and Physiology

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon. The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals..

2nd YEAR

Pre-operative Anesthesia Management

Students will know Perioperative management consisting of preoperative patient evaluation as well as intraoperative and postoperative patient monitoring and care. Also, assessment

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prior to surgery by considering patient history, physically examining the patient, and conducting any tests deemed necessary.

Anesthesia for surgical subspecialties

Students will learn about Anesthesia technique in different sub specialities like cardiothoracic surgery, colon and rectal surgery, general surgery, gynecology and obstetrics, gynecologic oncology, neurological surgery, ophthalmic surgery, oral and maxillofacial surgery, orthopedic surgery, otorhinolaryngology, pediatric surgery

Pharmacology

The student will be able to report the clinical applications, side effects and toxicities of drugs used in medicine. The student will be able to explain the mechanisms of action and pathology of ethanol and drugs of abuse. The student will be able to translate pharmacological principles into clinical decision-making.

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PROGRAM OUTCOMES (DIPLOMA CARDIAC CARE TECHNOLOGY)

This program is aimed at training candidates for the job of a "Cardiac Care Technician", in the "Healthcare" Sector/Industry and aims at building the following key competencies amongst the learner.

PROGRAM SPECIFIC OUTCOME (DIPLOMA CARDIAC CARE TECHNOLOGY)

POS1: Independently handle the latest technology relevant to heart diseases, diagnosis & treatment.

POS2: Know and apply the principles of sterilization, disinfection, infection control and aseptic techniques.

POS3: Perform invasive and non-invasive diagnostic examinations and therapeutic interventions of the heart and/or blood vessels under supervision.

POS4: Ensure availability of medical and diagnostic supplies.

POS5: Identify and know the instruments and equipment used in different Procedures.

POS6: Acquire sound knowledge of special procedures and able to assist in all.

POS7: Able to work effectively with others and have good communication abilities.

Course Outcomes

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

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IInd YEAR

Applied Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Applied Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

General medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

Applied Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic, General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system.

IIIrd YEAR

Introduction to Cardiac Care Technology

Basic understanding of Healthcare Service Providers (primary, secondary & tertiary) Basic understanding of cardiac department in a hospital. Basic understanding of Cath lab, CCU, invasive and non-invasive labs and various department pertaining to heart ailments/diagnosis/treatment

Advance aspect of Cardiac Care Technology

To develop broad understanding of the functions to be performed by CCT. To understand various types of procedures carried out in the cardiac catheterization laboratory and other labs carrying out advance diagnostic services in cardiology.

Clinical aspect of Cardiac Care Technology

To understand cardiovascular diseases & risk factors behind occurrence of cardiac abnormalities. To develop an understanding regarding various diseases of heart. To understand the significance of coronary circulation, systemic circulation, types of vessels etc. To Identify the warning signs and symptoms of heart related disease condition

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PROGRAM OUTCOME - DIPLOMA BLOOD BANK TECHNICIAN

After successfully completing this course, candidates can perform activities such as assisting the concerned doctor in the treatment of diseases, analysing human body fluids and detecting the presence or absence of certain microorganisms in the patient's body.

PROGRAM SPECIFIC OUTCOME (DIPLOMA BLOOD BANK TECHNICIAN)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

Ist YEAR

Basic Haematology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohaematology, coagulation profile and can handle automated instruments.

Blood banking & Immune Haematology

Students would understand principle, procedure & demonstration of various tissue constituents and advance tools and the basics of transfusion medicine, laboratory testing, quality control and apheresis techniques. They would able to carry out tissue processing and general staining.

Clinical Pathology (body fluids) and Parasitological

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Subject of microbiology will develop handling of instruments and sterilization techniques

IInd YEAR

Clinical Biochemistry

Students will know basics knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis issues by the help of serological techniques.

Immunology

Students will learn the immune system and biological sciences and the functioning of the immune system.

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PROGRAM OUTCOME (DIPLOMA ORTHOPAEDIC ASSISTANT)

The main to train the students to acquire the knowledge of hundreds of surgical procedures and the steps the surgeon needs to take in order to complete the procedure, including the very wide range of surgical instruments they may need.

PROGRAM SPECIFIC OUTCOME (DIPLOMA ORTHOPAEDIC ASSISTANT)

Students should be able to:

POS1: To provide surgical care to patients, under supervision of surgeon, to ensure safe and effective conduct of invasive and non-invasive surgical procedures.

POS2: To ensure operating room environment is safe and the operative procedure is conducted under conditions that maximize patient safety.

POS3: To prepare professionals to be expert in theory and application of the principles of asepsis and sterile techniques.

COURSE OUTCOMES

IST YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned.

Introduction to Surgical equipment's

Students will know basic knowledge of surgical instrument and the equipment used for different procedure.

IIND YEAR

Orthopaedic Surgical Procedures

Students will learn the differential diagnosis of Orthopaedic surgery and the treatment related to disorders of bones, joints, ligaments, tendons and muscles.

Orthopedic Surgical instruments & equipment's

Students will know basic knowledge of surgical instrument and the equipment used for different surgical procedure.

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PROGRAM OUTCOMES (DIPLOMA BIOMEDICAL WASTE MANAGEMENT)

Biomedical equipment technician will deliver the broad knowledge of biomedical waste management. Also know the knowledge to manage the hazardous chemicals and radioactive materials.

PROGRAM SPECIFIC OUTCOMES (DIPLOMA BIOMEDICAL WASTE MANAGEMENT)

After Diploma degree, Student must be able to work successfully in health care hospital.

COURSE OUTCOME

IST YEAR

Liquid waste Management

After completion of the course students will develop the knowledge of procedures and practices to prevent the discharge of pollutants to the storm drain system or to watercourses as a result of the creation, collection, and disposal of non-hazardous liquid materials.

IIND YEAR

Solid Waste Management

Students will know basics knowledge of Solid-waste management, the collecting, treating, and disposing of solid material.

Hazardous Waste Management

At the end of the course students will learn the knowledge of Hazardous waste management which involves reducing the number of hazardous substances produced, treating hazardous wastes to reduce their toxicity, and eliminate the exposures to these hazardous wastes.

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PROGRAM OUTCOMES (DIPLOMA CARDIAC AMBULANCE TECHNICIAN)

Cardiac Ambulance Technician should have power over the comprehensive knowledge of moral values and disciplines of the medical field. Cardiac Ambulance Technician should be able to independently handle the latest technology relevant to heart diseases.

PROGRAM SPECIFIC OUTCOME (DIPLOMA CARDIAC AMBULANCE TECHNICIAN)

POS1: Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.

POS2: Demonstrate leadership, teamwork and decision making in the management of critical case in ambulance. Plan and implement clinical and scientific activities related to the profession of cardiovascular technology.

POS3: Describe and use defensive and safe driving techniques in the operation of emergency vehicles.

COURSE OUTCOME

IST YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

IIND YEAR

Pharmacology related to cardiac care technology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration) Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,) General and local anaesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system

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Pathology, Microbiology, Clinical Features And Treatment of Diseases Pertinent to Cardiac Technology

At the end of the course, students will be able to: To understand cardiovascular diseases & risk factors behind occurrence of cardiac abnormalities. To develop an understanding regarding various diseases of heart. To understand the significance of coronary circulation, systemic circulation, types of vessels etc. To Identify the warning signs and symptoms of heart related disease condition

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PROGRAM OUTCOME (DIPLOMA HOSPITAL STERILIZATION/ CSSD TECHNICIAN)

After the completion of program, students should be able to create competent professional in the area of sterilization techniques and will be updated with latest standards, guidelines and best practices of instrument reprocessing.

PROGRAM SPECIFIC OUTCOME (DIPLOMA HOSPITAL STERILIZATION/ CSSD TECHNICIAN)

POS1: Clean, disinfect and distribute sterilized instrumentation and equipment to an emergency department and delivery unit, operating room and other areas of health care facilities in a scientific manner.

POS2: Contribute to a team of central sterile processing professionals who are all working together to achieve sterility

POS3: To prepare CSSD professionals to practice appropriate infection control protocols

COURSE OUTCOME

IST YEAR

Communicative English & Computer Fundamentals

At the end of the course, student should have good communication skills and basic computer knowledge.

Human Anatomy & Physiology

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus and also learn the function of organs and organ systems in normal human body.

Departmental Organisation & Basic Quality Procedures

At the end of the course students should have knowledge of quality department in an organization plans, measures, analyzes and reports on department quality.

Basic Microbiology & Infection Control Procedures

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. able to carry out differential diagnosis of disease by the help of serological techniques.

IIND YEAR

Cleaning & Disinfection of Medical Devices

At the end of the course student will have knowledge of cleaning and disinfection on medical devices and also learn the technique to eliminate many or all pathogenic microorganisms, except bacterial spores, on inanimate objects.

Inspection, Assembly & Packaging

At the end of the course students learn about the packaging materials which include wrapped perforated instrument cassettes, peel pouches of plastic or paper, and sterilization wraps. And also learn about the type of sterilization process being used and should be appropriate for the items being sterilized.

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Sterilization

At the end the course students learn the different types and process of sterilization technique which removes, kills, or deactivates all forms of life (in particular referring to microorganisms such as fungi, bacteria, viruses, spores, unicellular eukaryotic organisms such as Plasmodium, etc.) and other biological agents like prions present in a specific surface, object or fluid.

Storage & Distribution

At the end of the course students will learn about different steps sterile processing and distribution technique.

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PROGRAM OUTCOME (DIPLOMA EMERGENCY MEDICAL ASSISTANT)

Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies. Demonstrate effective communication, cultural competency, and conflict management and intervention skills for people in crisis. Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers. Demonstrate leadership, teamwork and decision making in the management of multiple personnel on emergency scenes. Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism. Describe and use defensive and safe driving techniques in the operation of emergency vehicles. Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

PROGRAM SPECIFIC OUTCOME (DIPLOMA EMERGENCY MEDICAL ASSISTANT)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Anatomy and physiology

Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail will be able to perform, analyze and report on experiments and observations in physiology Will be able to recognize and identify principal tissue structures.

Biochemistry

Demonstrate a broad knowledge of the fundamental introductory concepts of Chemistry, Biology and Physics. Demonstrate a thorough knowledge of the intersection between the disciplines of Biology and Chemistry. Demonstrate a proficiency in developing relevant biochemical questions, carrying out laboratory investigations to answer those questions, and critically analyzing, interpreting, and presenting in oral and written form the results of their experiments. Locate, critically analyze, interpret and discuss data, hypotheses, results, theories, and explanations found in the primary literature, applying knowledge from Chemistry and Biology. Appreciate the way in which practitioners in the disciplines of Biology and Chemistry intersect and bring their expertise to bear in solving complex problems involving living systems. Understand the societal impacts, both positive and negative, of science and technology and the limitations of science.

Hospital orientation, management, and computers

Demonstrate adequate knowledge and mastery of techniques relevant to hospital

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management and/or to demonstrate a clear understanding of concepts, information and techniques at the forefront of the hospital management discipline. Develop awareness of the responsibilities of senior hospital management, including understanding the role and functions of hospitals and their health care context and prepare to handle the management and development issues faced by a hospital manager, including structure and organization; planning and managing resources; and reviewing and evaluating services. Recognize how operational problems and situations are handled in practice by undertaking and reporting at a hospital attachment. Formulate ideas and develop and participate in implementation of plans. Take a proactive and self-reflective role in working and to develop professional relationship

English

Understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation. Communicate effectively (Verbal and Non Verbal). Effectively manage the team as a team player. Develop interview skills. Develop Leadership qualities and essentials

Emergency medicine (EM) and EMS

Recognize and validate disturbances in the airways, breathing and circulation. Initially treat these disturbances by securing the airways, giving infusions and performing cardiopulmonary resuscitation. Use and validate diagnostic tools available at the emergency department (ED), such as arterial blood gases, X-ray, CT, MRI, ultra scan, and ECGs. Take a relevant history, Present a case to a colleague or supervisor, Present and discuss relevant differential diagnoses, Present a plan for treatment, Work in a team around the acutely ill patient in the trauma room, Order and judge the need of the different tests available at the ED), Get an understanding of when and why relevant clinical tests, blood tests or other tests be ordered and what the clinical consequences of these tests may be. Get a basic knowledge of pre-hospital emergency medicine, Get a basic knowledge of disaster medicine

IInd YEAR

Pathology & Microbiology

Know how viruses are classified Understand the architecture of viruses Know the methods used in studying viruses Discern the replication strategies of representative viruses from the seven Baltimore classes, Comprehend the intricate interaction between viruses and host cells, Understand the interactions between viruses and the host immune system, The terms Oncogenes and tumor suppressor genes, and how tumor viruses interact with these products and their intersecting pathways and cause oncogenesis, Explain vaccine strategies and mechanisms of antiviral drugs and interferons

Patient examination, Nursing

To obtain an accurate, comprehensive history from the patient. To perform a rational, thorough physical exam. To, when appropriate, focus the history and physical exam to the patient's active issues. To order basic laboratory and radiologic studies as appropriate and to know how to interpret the results of these studies. To use information from the history, physical examination and initial laboratory data to create a problem list. To recognize and prioritize the issues in the problem list that need attention and to generate a differential diagnosis for each active problem.

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PROGRAM OUTCOME (DIPLOMA COMMUNITY HEALTH ASSISTANT)

On completion of the course, the trained CHA will be able to, Care during pregnancy and childbirth, Deliver neonatal and infant care services, Provide childhood and adolescent health care service, Educate and provide family planning ,contraceptive services and other reproductive services, Manage and treat all communicable disease linked in national health programmes, Provide general outpatient care for acute simple illness and minor ailments, Screen and manage non communicable diseases, Provide screening and basic management of mental health ailments, Provide care for common ophthalmic and ENT problems, Provide basic dental care, Provide geriatric and palliative health care services, Provide basic trauma care and emergency medical services

PROGRAM SPECIFIC OUTCOME (DIPLOMA COMMUNITY HEALTH ASSISTANT)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Anatomy and physiology

Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; will be able to perform, analyze and report on experiments and observations in physiology; Will be able to recognize and identify principal tissue structures.

Biochemistry

Demonstrate a broad knowledge of the fundamental introductory concepts of Chemistry, Biology and Physics. Demonstrate a thorough knowledge of the intersection between the disciplines of Biology and Chemistry. Demonstrate a proficiency in developing relevant biochemical questions, carrying out laboratory investigations to answer those questions, and critically analyzing, interpreting, and presenting in oral and written form the results of their experiments. Locate, critically analyze, interpret and discuss data, hypotheses, results, theories, and explanations found in the primary literature, applying knowledge from Chemistry and Biology. Appreciate the way in which practitioners in the disciplines of Biology and Chemistry intersect and bring their expertise to bear in solving complex problems involving living systems. Understand the societal impacts, both positive and negative, of science and technology and the limitations of science.

Art, History and Microbiology

Know how viruses are classified. Understand the architecture of viruses. Know the methods used in studying viruses. Discern the replication strategies of representative viruses from the seven Baltimore classes. Comprehend the intricate interaction between viruses and host

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cells. Understand the interactions between viruses and the host immune system. The terms Oncogenes and tumor suppressor genes, and how tumor viruses interact with these products and their intersecting pathways and cause oncogenesis. Explain vaccine strategies and mechanisms of antiviral drugs and interferons

Pharmacology

Provide an overview of alternative system of medicines. Systematic classification of crude drugs from natural source. Emphasis on cultivation, collection and post harvesting technology of crude drugs. Knowledge on crude drug adulteration and its evaluation. An overview on primary metabolites including occurrence, chemistry, properties and estimation of carbohydrates, proteins, lipids etc. with various examples.

Study of natural fibers used in surgical dressing.

Forensic Medicine

Demonstrate knowledge and understanding of some of the basic facts, language, concepts and principles relating to the principles and significance of fingerprint matching. Demonstrate knowledge and understanding of some of the links between forensic science and the legal system. Draw together information from different sources and make logical deductions as a result. Demonstrate an understanding of how forensic scientists operate and use scientific evidence in a legal context.

IInd YEAR

Maternal and Child Health

Analyze the causes and effects of the major health problems that are present during pregnancy, infancy, childhood and adolescence. Know the health disparities in MCH and the influence of economic, biological and social factors that contribute to these disparities. Prioritize factors that need to be considered when developing public health programs for women & children. Organize and present information that describes the MCH needs of a community.

Nutrition, Health Education And HMIS

Demonstrate the understanding of fundamentals of food, nutrition and health Recognize the importance of nutrition during the various stages of life. Demonstrate the understanding of etiology and management of nutritional disorders ranging from nutritional deficiencies to lifestyle diseases as well as common ailments. Recognize the significance of (i) food safety, food quality, food laws and regulations (ii) ongoing national nutrition programs (iii) technologies for improving food and nutrition security Demonstrate skills in assessment of nutritional status. Demonstrate skills in planning and preparing balanced diets for normal persons and in states of malnutrition/ disease Demonstrate skills for playing the role of nutrition/ health educators in the community. Demonstrate entrepreneurship skills for setting up a home-based catering university.

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PROGRAM OUTCOME- DIPLOMA IN PHYSICIAN ASSISTANT

To ensure operating room environment is safe and the operative procedure is conducted under conditions that maximize patient safety. To prepare professionals to be expert in theory and application of the principles of asepsis and sterile techniques. To combine knowledge of human anatomy, surgical procedures and implementation of tools to facilitate a physician's performance of diagnostic procedures. Physician's assistant courses cover medical diagnosis, clinical practice and treatment techniques for each system of the body.

PROGRAM SPECIFIC OUTCOME DIPLOMA IN PHYSICIAN ASSISTANT

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Human Anatomy and Physiology

Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; will be able to perform, analyze and report on experiments and observations in physiology; Will be able to recognize and identify principal tissue structures.

Biochemistry

Demonstrate a broad knowledge of the fundamental introductory concepts of Chemistry, Biology and Physics. Demonstrate a thorough knowledge of the intersection between the disciplines of Biology and Chemistry. Demonstrate a proficiency in developing relevant biochemical questions, carrying out laboratory investigations to answer those questions, and critically analyzing, interpreting, and presenting in oral and written form the results of their experiments. Locate, critically analyze, interpret and discuss data, hypotheses, results, theories, and explanations found in the primary literature, applying knowledge from Chemistry and Biology. Appreciate the way in which practitioners in the disciplines of Biology and Chemistry intersect and bring their expertise to bear in solving complex problems involving living systems. Understand the societal impacts, both positive and negative, of science and technology and the limitations of science.

Attested CTC Clinical Microbiology

Know how viruses are classified. Understand the architecture of viruses. Know the methods used in studying viruses. Discern the replication strategies of representative viruses from the seven Baltimore classes. Comprehend the intricate interaction between viruses and host

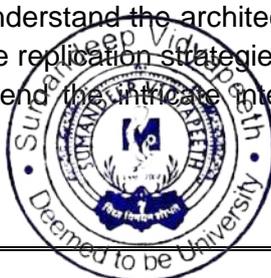
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cells. Understand the interactions between viruses and the host immune system. The terms Oncogenes and tumor suppressor genes, and how tumor viruses interact with these products and their intersecting pathways and cause oncogenesis. Explain vaccine strategies and mechanisms of antiviral drugs and interferons.

Pharmacology

Describe fundamental concepts of drug-receptor interactions. Describe the intermolecular energies that allow drug molecules to bind to proteins and how these interactions dictate binding specificity. Describe the principles of dose-response relationships and their use in quantifying drug action. Describe the relation between cell membrane or intracellular drug targets and intracellular signaling systems which mediate cellular response. Demonstrate an understanding of acid-base equilibria (pH, pKa, buffers) and the partition coefficient concept as they apply to pharmacology. Describe the impact of drug accessibility to biological compartments on drug action. Describe the mechanism of therapeutic action of a selected drug at the molecular, cellular, organ system and whole-body levels. Describe the common adverse effects of a selected drug and their mechanism of production. Describe the purpose as well as the detailed mechanisms of the biochemical reactions that render drug and xenobiotic compounds more suitable for elimination from the body. Predict possible metabolic outcomes of a given drug based on its chemical structure.

IInd YEAR

Pediatrics and Geriatrics

The overall goals for the third year Pediatric Clerkship are to educate future physicians to provide competent, effective and compassionate care of patients by developing clinical reasoning, communication and life-long learning skills.

Obstetrics and Gynecology

Perform the medical interview and physical examination of women incorporating ethical, social, and diversity perspectives to provide culturally competent health care. Apply recommended prevention strategies to women throughout the life span. Develop his/her role as a leader and advocate for women

Cardiology and Cardiac Surgery

Discuss the aetiology, pathophysiology, assessment, and management of common cardiovascular disorders. Outline the process of risk stratification and the assessment tools used to risk stratify patients with non-ST-segment acute coronary syndromes. Compare and contrast percutaneous intervention and surgical option for the treatment of coronary, valvular, and thoracic aortic disease. Identify the potential physical, social, emotional, cultural, and spiritual issues patients and their families may face with end stage cardiac disease. Explain the concepts of palliative care, and recommended strategies to improve palliative care for patients with advanced cardiovascular disease

Outline the legal and ethical considerations relating to end-of-life cardiac care. Identify and critically appraise the evidence that informs practice.

Gastroenterology / Orthopedics

Describe problems that can be caused by the treatment of Musculoskeletal Disorders (e.g. GI bleeds, Osteoporosis, Coronary Heart Disease, Radiation damage) and explain Primary and Secondary Prevention of these. Advise patients regarding what they are

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physically able to do, according to their level of disability. Recognize that Psychosomatic symptoms are commonly described as Musculoskeletal Problems, and that Musculoskeletal Problems often have an important Psychological component. Consider the Physical, Psychological and Social impact of Musculoskeletal Conditions on individuals and their families and carers. Recognize that an acute illness may be an acute exacerbation of a chronic disease. Recognize the Psychological effects of Trauma.

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PROGRAM OUTCOME (DIPLOMA SURGICAL ASSISTANT)

To provide surgical care to patients. Under supervision of surgeon, to ensure safe and effective conduct of invasive and non-invasive surgical procedures. To ensure operating room environment is safe and the operative procedure is conducted under conditions that maximize patient safety. To prepare professionals to be expert in theory and application of the principles of asepsis and sterile techniques. To combine knowledge of human anatomy, surgical procedures and implementation of tools to facilitate a physician's performance of diagnostic procedures.

PROGRAM SPECIFIC OUTCOME (DIPLOMA SURGICAL ASSISTANT)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Anatomy and Physiology

Have an enhanced knowledge and appreciation of mammalian physiology Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; will be able to perform, analyze and report on experiments and observations in physiology, Will be able to recognize and identify principal tissue structures.

Introduction to surgical instruments

To apply a basic understanding of human physiology and surgical anatomy and use of appropriate medical terminology in the perioperative setting. To demonstrate theoretical and practical proficiency in surgical aseptic technique, surgical procedures and patient care. Demonstrates respect for the dignity and worth of the patient. To work cooperatively and become an integral member of the health care team. Demonstrate ability to practice independent clinical judgments under the supervision of the surgeon or Registered nurse. Demonstrate knowledge of instrumentation and use in surgical procedures during perioperative care. Demonstrate a basic understanding of the concepts of Pharmacology. Assume a sense of responsibility, self-discipline, pride, teamwork, and enthusiasm. Demonstrate effective communication skills. To prepare competent entry-level surgical technologist in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. Pass the Certification examination of the Association of Surgical Technologist

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PROGRAM OUTCOME - DIPLOMA IN OPHTHALMIC ASSISTANT

To carry out all routine diagnostic / therapeutic test on modern hospital laboratory. To train the students to assist the Eye care practitioner. To acquire knowledge of certain techniques to carry out early detection of Visual defects. To train the student in Power checking, Ophthalmic Lens Grinding, Manufacturing Units etc.

PROGRAM SPECIFIC OUTCOME

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programs of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Basic medical science - Ophthalmology

Take an accurate history. Perform an appropriate physical examination including use of the slit lamp and ophthalmoscope. Be able to differentiate normal from abnormal eye findings. Outline a logical program of investigation and possible management

Ophthalmic equipment's and techniques.

The candidates should demonstrate knowledge and skills of optical appliances and dispensing and how visual correction interact with the eye. Knowledge and skills should be demonstrated in the areas of: Physical characteristics of ophthalmic lenses, Optical characteristics of ophthalmic lenses, Ophthalmic prisms and prismatic effect of lenses, Multifocal lenses, Physical characteristics and biological compatibility of frame materials, Specification and nomenclature of spectacle frame components, Optical and spectacle frame considerations of high-powered lenses, Spectacle magnification, Absorptive lenses, Impact resistance, Optical tolerances and physical requirements of ophthalmic lenses and frame materials (EN), and Spectacle applications.

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PROGRAM OUTCOMES - DIPLOMA OLD AGE MEDICAL ASSISTANT

After completion of Course the student will develop intellectual and imaginative abilities in order to facilitate the development of independent judgment and problem-solving skills. To ensure operating room environment is safe and the operative procedure is conducted under conditions that maximize patient safety. To prepare professionals to be expert in theory and application of the principles of asepsis and sterile techniques. To combine knowledge of human anatomy, surgical procedures and implementation of tools to facilitate a physician's performance of diagnostic procedures.

PROGRAM SPECIFIC OUTCOME - DIPLOMA OLD AGE MEDICAL ASSISTANT

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Psychology

Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology. Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation. Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes. Understand and apply psychological principles to personal, social, and organizational issues. Demonstrate information competence and the ability to use computers and other technology for many purposes.

Sociology

This course is designed such way that offers multiple opportunities to the learners. After completion of this course, student would get job opportunities in the fields of teachings, research, NGOs, corporate sectors and Governmental sectors. This course also helps students to qualify the NET/JRF/SET and Competitive Exams such as MPSC/UPSC/Social Welfare Departments and others etc. This course has also relevance in the field of production of knowledge about the human behavior, social issues and phenomena. This production of knowledge would be helpful to the policy makers, developmental organizations, researchers, social activist and social scientists. This course makes differentiate between common sense knowledge and sociological knowledge and this course provides scientific vocabulary, terms, concepts, methods and perspectives in accessing the social issues, events and problems. The sociological knowledge would be useful in the as engineering and social reconstruction of the social structure. The sociology not only provides employment opportunities alone, but also makes the students rational, critical and logical.

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Applied Anatomy & Physiology

Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; will be able to perform, analyze and report on experiments and observations in physiology; Will be able to recognize and identify principal tissue structures.

Gerontological nursing

Demonstrate a crucial understanding of the concept of multiple pathology and the implications for caring for older persons Demonstrate a person-centred approach to care planning using valid and reliable evidence-based tools which include the older person/family member in appropriate goal setting, taking cognizance of potential sensory losses experienced by the older person which can result in communication barriers. Apply in-depth specialist knowledge of the specific physiological and psychosocial needs of the older person in planning and implementing care Practice in an ethical manner that reflects, knowledge, insight and clinical judgement in the management of patients, including collaboration and consultation. Demonstrate specific knowledge of pharmacological issues in Gerontological nursing practice. Demonstrate a crucial understanding of the ageing process and theories of ageing Critically evaluate current research findings designed to promote and maximize the functional abilities of the older person in a variety of care settings. Utilize specialist knowledge, gained through the theoretical component of the programme, to co-ordinate care in collaboration with the multidisciplinary team. Apply knowledge of team working dynamics in making a positive contribution to the care team including the ability to effectively contribute to the management of change. Critically evaluate the effectiveness of care delivered and review practice in accordance with evidence-based research

Community Health

Students will know and comprehend the significant theories, models, themes, and ideas in the biomechanical, physiological, behavioral, pedagogical, biological, socioeconomic, environmental, and sociocultural correlates of Kinesiology and Community Health.

Critical Thinking and Discovery

Students will comprehend and demonstrate ethical practices and the application of scientific findings and/or critical analysis in order to interpret, promote inquiry, propose solutions, and/or create new ideas related to health, rehabilitation, and/or human movement.

Awareness and Understanding

Students will understand and appreciate the diverse socioeconomic, behavioral, sociocultural, biological, environmental, philosophical, and historical factors that influence health, rehabilitation, and human movement.

Programming and Assessment

Students will apply best practices in developing, implementing, assessing, and evaluating programs and interventions related to health promotion, physical activity adoption and adherence, and the prevention and treatment of diseases.

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Leadership and Engagement

Students will demonstrate leadership and effective communication skills, showcasing an appreciation and commitment to health and physical activity as they develop and sustain productive relationships and work for the common good at local, national, and global levels.

IInd YEAR

Psychiatric problems of older persons

On successful completion of the course students will be able to: Identify the developmental, psychological and psychosocial factors influencing the behavior of an older person experiencing mental health problems. Develop a personal model of successful ageing. Explain the potential changing roles of a person as they reach old age and potential associated life problems. Demonstrate skills in comprehensive assessment of the older person within their systems. Recognize the physical and physiological factors affecting the assessment, treatment, care and management of the older person with mental health problems. Identify common psychiatric presentations in the older person. Discuss how comorbidities, atypical presentations and age-related changes affect diagnosis, treatment and management of the older person with mental health problem. Describe the phenomenology, etiology, demographics, treatment, and prognosis of psychiatric disorders of old age: mood disorders and psychotic disorders. Demonstrate related knowledge in the care of the older person who exhibits behavioral symptoms: aggression, disorientation, confusion, paranoia, hallucinations, withdrawal, neglect and disinhibition. Develop models of nursing intervention based on problem solving, communication, therapies, environment change and somatic treatments. Describe the indication, clinical use, effectiveness, adverse effects, potential interactions and nursing implications of the use of common psychoactive medications for the older person.

Malignancies of ageing & Counseling the older person

Analyze the goals and common approaches of psychosocial interventions. Explain the stages of the helping relationship and challenges that may arise. Examine common issues that cause clients to seek counseling.

Supervision & Management

Understand the concepts related to Business. Demonstrate the roles, skills and functions of management. Analyze effective application of PPM knowledge to diagnose and solve organizational problems and develop optimal managerial decisions. Understand the complexities associated with management of human resources in the organizations and integrate the learning in handling these complexities.

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PROGRAM OUTCOME (DIPLOMA CANCER CARE ASSISTANT)

To provide surgical care to patients. Under supervision of surgeon, to ensure safe and effective conduct of invasive and non-invasive surgical procedures. To ensure operating room environment is safe and the operative procedure is conducted under conditions that maximize patient safety. To prepare professionals to be expert in theory and application of the principles of asepsis and sterile techniques. To combine knowledge of human anatomy, surgical procedures and implementation of tools to facilitate a physician's performance of diagnostic procedures.

PROGRAM SPECIFIC OUTCOME (DIPLOMA CANCER CARE ASSISTANT)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOMES

1st YEAR

Anatomy and physiology

Have an enhanced knowledge and appreciation of mammalian physiology; Understand the functions of important physiological systems including the cardio-respiratory, renal, reproductive and metabolic systems; Understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail; will be able to perform, analyze and report on experiments and observations in physiology; Will be able to recognize and identify principal tissue structures.

Biochemistry

Demonstrate a broad knowledge of the fundamental introductory concepts of Chemistry, Biology and Physics. Demonstrate a thorough knowledge of the intersection between the disciplines of Biology and Chemistry. Demonstrate a proficiency in developing relevant biochemical questions, carrying out laboratory investigations to answer those questions, and critically analyzing, interpreting, and presenting in oral and written form the results of their experiments. Locate, critically analyze, interpret and discuss data, hypotheses, results, theories, and explanations found in the primary literature, applying knowledge from Chemistry and Biology. Appreciate the way in which practitioners in the disciplines of Biology and Chemistry intersect and bring their expertise to bear in solving complex problems involving living systems. Understand the societal impacts, both positive and negative, of science and technology and the limitations of science.

Pathology & Microbiology

Understand how viruses are classified. Understand the architecture of viruses. Know the methods used in studying viruses. Discern the replication strategies of representative viruses from the seven Baltimore classes. Comprehend the intricate interaction between viruses and host cells. Understand the interactions between viruses and the host immune system. The terms

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Oncogenes and tumor suppressor genes, and how tumor viruses interact with these products and their intersecting pathways and cause oncogenesis. Explain vaccine strategies and mechanisms of antiviral drugs and interferons

IInd YEAR

Nursing Care of the patient with cancer

Assess, plan, provide and evaluate holistic, culturally sensitive and evidence-based nursing care for patients with cancer, seeking to understand their physical, psychological and spiritual needs; Demonstrate an understanding of how personal and professional attitudes, values and beliefs in relation to cancer may influence the care that patients and their families receive; Appraise the physical, psychological, social and environmental issues that contribute to the onset of cancer, utilizing appropriate epidemiological evidence; Demonstrate an understanding of the role of the immune system and of genetics in cancer; Participate in health education activities to promote cancer prevention and early detection; Describe approaches to the diagnosis and staging of cancer; Explain the principles and application of commonly used cancer treatments; Explain the requirements for safe preparation and administration of chemotherapeutic agents; Demonstrate safe and effective practice in administering, recording and disposing of chemotherapeutic and other drugs used in the care of the cancer patient; Assess the effects of all forms of treatment and initiate action according to ward or unit protocols; Complete nursing documentation accurately and in a timely fashion; Discuss the potential impact of cancer and its treatment on patients and their families; Assess the needs of the patient and family regarding their stress and coping mechanisms when faced with the diagnosis of cancer; Demonstrate understanding of the principles of cancer clinical trials and ensure the patient understands sufficiently to provide informed consent; Analyse professional, legal and ethical issues in cancer nursing and their potential implications for nursing practice; Apply knowledge of patient's rights in professional clinical practice; Discuss the contribution of nursing research to patient care and utilize relevant research in practice; Critically analyses theories relating to therapeutic communication and practice effective communication skills in the care of patients with cancer and their families; Contribute effectively as a member of the multidisciplinary team; apply appropriate teaching and learning principles in the education of patients, their families and of less experienced colleagues; Articulate clearly the role of the cancer nurse in promoting high standards of care for cancer patients in both the curative and palliative stages of the disease.

Treatment modalities for Site Specific Cancer & Oncological Emergencies

Upon completion of this activity, the learner will demonstrate knowledge of treatment and symptom management associated with cancer and oncologic emergencies by achieving a post test score of 80% or higher.

Cancer Therapy & Radiotherapy

Demonstrate an understanding of the relationship between health, wellbeing and human behavior; Identify social, political, economic and cultural determinants of health; Discuss stress and coping in relation to diagnosis of and treatment(s) for life-threatening illness, with special emphasis on cancer; Discuss risk and protective factors across the lifespan that

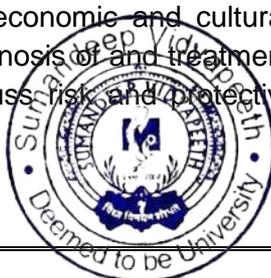
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affect coping with life-threatening illness; Discuss the relevance of culture to an individual's and group's experience of society with particular reference to health and illness; Describe the relevance of the Treaty of Waitangi to New Zealand society and the delivery of health care; Discuss decision-making in relation to diagnosis, side-effects and survivorship of cancer and its treatment(s); Identify research methodologies in health psychology and health sociology.

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PROGRAM OUTCOME (DIPLOMA NEUROLOGY & NEUROSURGERY ASSISTANT)

Neurology and Neurosurgery assistant students must demonstrate core knowledge about established and evolving biomedical and clinical sciences and the application of this knowledge to patient care in their area of practice. and you will get to develop collaborative and beneficial professional relationships not just with your supervising neurosurgeon, but also with all the other members of the medical team.

PROGRAM SPECIFIC OUTCOME (DIPLOMA NEUROLOGY & NEUROSURGERY ASSISTANT)

The role involves working closely with patients of all ages to investigate the functioning of the nervous system in order to diagnose and monitor neurological disorders, such as epilepsy, strokes, dementia, nerve and muscle dysfunction, and multiple sclerosis. The candidate who will work in hospital have a series of typical duties such as closing the wounds at the end of the surgery, ordering and interpreting various scans and tests such as CT scans and MRIs, and making hospital rounds whenever needed.

COURSE OUTCOME 1ST YEAR

Neuro Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. The students will also have a complete understanding of CNS.

Neuro Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will gain the understanding and confidence of executing specialist procedures in neurophysiology including EEG (Electroencephalography)

Laboratory Tools and Techniques

Students will gain a complete knowledge of EEG & EMG machine operation, Electrode placement, EEG Techniques, NCV; EMG Techniques, VEP, AEP & SSEP concepts

Basic Nursing

This curriculum will provide basic understanding and hands on practice of First AID 2. Basic Life Support and Catheter insertion.

IIND YEAR

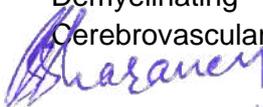
Neuro Pharmacology

This course will provide complete understanding of Antiepileptic drugs, Sedative and Hypnotics, Antiplatelet, Anticoagulants, Antiparkinsonian drugs, CNS stimulants and Sterilization – materials methods

Neuro Pathology

This course will provide complete understanding of Epilepsy, Peripheral Neuropathy, Demyelinating disorders, Myopathy, Muscular dystrophy, Degenerative disorders, Cerebrovascular disorders and Dementia. Neuro Pathology subject also include sections

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about stroke, multiple sclerosis, brain tumours, Alzheimer's disease, cerebral palsy, brain malformations.

Applied Electro Physiology

The students will learn to carry out competent diagnostic therapeutic investigation relevant to the role of healthcare science practitioner. The student would be able to work closely with patients of all ages to investigate the function of nervous system to diagnose and monitor neurological disorders including epilepsy, strokes, dementia, nerve and muscle dysfunction and multiple sclerosis.

Operative Procedure Assistance

Students would understand Operating Room Ethics, Discipline, equipment, and Sterilization Procedure, Common General Surgical Operations and Dressings, maintenance of equipment and instruments and OT techniques.

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PROGRAM OUTCOME (DIPLOMA OPERATION THEATRE TECHNICIAN)

After the completion of program, operation theatre technician should be able to transport patients to and from the theatre and wards. Assist in preparing operating rooms for surgery. set up, check, connect and adjust surgical equipment. Provide technical assistance to surgeons, surgical nurses and anesthetists.

PROGRAM SPECIFIC OUTCOME (DIPLOMA OPERATION THEATRE TECHNICIAN)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned.

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities.

Principles of Management

Students will learn the functions of planning, organizing, directing and controlling, and the application of these principles in harnessing physical, financial, human, and informational resources efficiently and effectively to achieve organizational goals.

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IInd YEAR

Surgical Techniques

Operation Theatre technician will learn how to assist in preparing operating rooms for surgery. Set up, check, connect and adjust surgical equipment. Provide technical assistance to surgeons, surgical nurses and anesthetists.

Emergency Management

Students will acquire the knowledge of emergency management is the organization and management of the resources and responsibilities for dealing with all humanitarian aspects of emergencies (preparedness, response, mitigation, and recovery).

O.T. Equipments

At the end the course Operation Theatre Technician should be able to supervises the circumstances in the operating room and continually measures the requirement of the patient and surgical team and that every single process in the operation theatre is as secure and should know the sterilization technique.

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PROGRAM OUTCOME (DIPLOMA BIOMEDICAL EQUIPMENT TECHNICIAN)

Biomedical equipment technician will deliver the broad knowledge of biomedical system instrumentation. Necessary knowledge includes system usage, maintenance responsibilities, and ways to obtain data on an extensive range of monitoring, diagnostic, therapeutic, and surgical instrumentation.

PROGRAM SPECIFIC OUTCOME (DIPLOMA BIOMEDICAL EQUIPMENT TECHNICIAN)

After Diploma course, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes and in the health care company

COURSE OUTCOME

IST YEAR

Health delivery system and role of medical devices

After completion of the course students will develop the knowledge of medical devices and the healthcare delivery system.

Medico-legal aspect of health information and accountability

The course will develop an understanding of Medico-legal case (MLC) which indicates that investigation by law enforcement agencies to establish and fix the criminal responsibility for the case according to the law of the country.

Fundamental of biomedical instrumentation

Students will know basics knowledge of biomedical instrumentation and its application. Also learn the knowledge of technologies to solve problems related to living biological systems.

Electric/Mechanic, Thermodynamic, Physics & instrumentation

This curriculum will provide an introduction of principles of thermodynamics and the basic physics related to biomedical equipment.

IIND YEAR

Fundamental knowledge of function and operation of all possible basic clinical equipment

Students will know basics knowledge of biomedical instrumentation and its application. Also learn the knowledge of technologies to solve problems related to living biological systems.

Fundamental of delivery, installation and setup of the basic medical equipment

At the end of the course students will know the knowledge of working principles and installation of medical equipment.

Faults of the basic medical equipment's

At the end of the course students will learn reason of faults of medical equipment and their related artefacts.

Standard and best practices to biomedical instrument

At the end of the program students will learn about the advance technology of medical device and their benefits

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PROGRAM OUTCOME (DIPLOMA CLINICAL RESEARCH TECHNICIAN)

The Aim of Diploma Clinical Research program is to demonstrate competency in biopharmaceutical clinical trial research designs and regulatory affairs management to meet the health and medical needs of current and future biopharmaceutical product consumer.

PROGRAM SPECIFIC OUTCOME (DIPLOMA CLINICAL RESEARCH TECHNICIAN)

POS1: Effectively access and manage ethical clinical trial programs and biopharmaceutical development projects.

POS2: Forecast the resources necessary for developing and managing biopharmaceutical clinical research grants and trials as required and regulated by global regulatory agencies

POS3: Demonstrate competencies in evaluating clinical research data and communicating results

POS4: Manage innovative biopharmaceutical/biotechnology products through the discovery processes and into the clinical trial phases via identifying research questions and testable hypotheses.

COURSE OUTCOMES

Ist YEAR

Clinical research Guidelines and Regulations

At the end of the course student will learn about the guidelines of ethical and scientific quality standard for the design, conduct, performance, monitoring, auditing, recording, analyses and reporting of clinical trials.

Clinical Trial Planning and design

At the end of the course student will learn about the objectives, design, methodology, statistical consideration and organization of a trial. Also learn about the Clinical Trial Protocol.

Clinical Trial Conduct, Compliance and Quality Assurance

At the end of the course student will learn about quality Assurance in clinical trials which consists of planned, systematic activities that are conducted to ensure that a trial is performed.

Pharmacovigilance

At the end of the course student will have knowledge about the healthcare system through assessment, monitoring and discovery of interactions amongst drugs and their effects in human.

IInd YEAR

Data Analysis and Management in Clinical Research

At the end of the course student will learn about the application of statistical methods to a wide range of topics in biology. It also included the design of biological experiments, the collection and analysis of data from those experiments and the interpretation of the results.

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Clinical Research Management

At the end of the course student will learn about the management of clinical trial operations and staff at study sites which includes staffing, evaluation, training, operations management, budgets and contracts, developing and implementing SOPs and other policies and procedures.

Basic Safety

At the end of the course student will learn about the safety and effectiveness (efficacy) of medications, devices, diagnostic products and treatment regimens intended for human use which may be used for prevention, treatment, diagnosis or for relieving symptoms of a disease.

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PROGRAM OUTCOME (DIPLOMA MEDICAL RECORDS TECHNOLOGY)

After the completion of program, Medical Records Technician will be able to document patients' health information, including their medical history, symptoms, examination and test results, treatments, and other information about healthcare services that are provided to patients. Their duties vary by employer and by the size of the facility in which they work. The increasing adaptation and use of electronic health records (EHRs) will continue to change the job responsibilities of Medical Records Technician. Technicians will need to be familiar with, or be able to learn, EHR computer software, follow EHR security and privacy practices, and analyze electronic data to improve healthcare information.

PROGRAM SPECIFIC OUTCOME (DIPLOMA MEDICAL RECORDS TECHNICIAN)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Definition of Medical Records

Students will learn about various medical record definition and terminology

Importance of Medical Records

Students will learn about the importance of medical record in any institution/hospital

Uses of Medical Records

Students will learn about the use of medical record in any institution/ hospitals

Values of Medical Records

Students will learn about the importance and value of medical record in any institution/ hospitals

Aims and objective of Medical Records

Students will learn about the main objective of medical record in any institution/ hospitals

Central Admitting Office

Medical Records Form

Students will learn about various medical forms that are filled in the department for record keeping

Retention and Preservation of Medical Records

Students will learn about the preservation of record files, procedure of segregating and maintaining of files.

Hospital Management information system

Students will learn about the data keeping of hospital record using software.

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IInd YEAR

Medical Terminology

Students will learn about various medical terminology used in hospital setup.

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Legal aspect of Medical Records

Students will learn about the medico-legal aspects of medical records

Hospital statistics

Students will learn about the data analysis of hospital data.

Coding and Indexing

Students will learn about the coding and indexing of record files.

Daily census

Students will learn about the daily census

Assembling and deficiency check

Students will learn about the assembling the record files

International classification of disease

Students will learn about the ICD coding according to the disease condition.

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PROGRAM OUTCOME (DIPLOMA HEALTH ADMINISTRATIVE ASSISTANT)

After the completion of the program, the Health Administrative Assistant should be able to:

- Perform health care office procedures that include scheduling, bookkeeping, billing and payment collection, utilizing a working knowledge of medical terminology, body systems, common medications, electronic health records and insurance.
- Educate, advocate for, and collaborate with patients and the health care team within the scope of practice.
- Compose, edit, proofread, and accurately produce health care and other business documents using appropriate software and equipment within specified timelines.
- Integrate computer and communication technologies, as well as critical thinking skills, to accomplish health care office tasks.

PROGRAM SPECIFIC OUTCOME (DIPLOMA HEALTH ADMINISTRATIVE ASSISTANT)

POS 1: After Diploma degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: Diploma degree are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

Course Outcome

1st YEAR

Principles of Management and Organizational Behavior

Analyze organizational behavioral issues in the context of organizational behavior theories, models and concepts, Analyze and compare different models used to explain individual behavior related to motivation and rewards, Gain insights on group dynamics and demonstrate skills required for team building, Identify the various leadership styles and the role of leaders in a decision-making process., Identify the processes used in communication and resolving conflicts, Understand the process of organizational development and techniques used for the purpose, Research on the emerging developments in the field of organizational behavior.

Managerial Economics

Students will equip the art of managerial decision making. They will be able to evaluate economic behavior, consumer utility and maximizing the traits in consumers Students will be able to analyze demand and supply conditions and understand how pricing decisions are made. Provides understanding to analyze real world business problems. Understand different market structures and various decisions under market structure. Helps to make optimal business decisions by integrating the concepts of economics, finance and statistics.

Corporate Communication

Demonstrate an understanding of the principles of corporate communication and its global role in the theoretical and practical landscape of public relations, and be able to express this understanding clearly through oral and written communication; Identify, analyse and articulate the critical role of corporate communication within cultural, political and social

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contexts; Demonstrate a capacity to work independently and with others, to understand and respect diverse opinions and to incorporate this understanding into oral and written work

IInd YEAR

Hospital Architecture Planning & Design

Hospital planning & Management candidate are involved in the business aspects of health care service delivery. Duties vary and may include planning and coordinating department activities in personnel and staffing, purchasing, public relations, fund raising, accounting, and program evaluation. They develop and implement budgets, analyze all types of data, and assure compliance with regulatory agency requirements or others work in marketing, finance, insurance, and information systems in health care and related organizations.

Material Management

Set strategic objectives, design structure, and organize the materials purchasing activities in the firm. Insure that the purchasing decisions meet the basic requirements to right quality, right quantity, right time, right price, and right source. Make decisions to the basic materials management elements such as the decision to make or buy, purchase commodities versus capital goods, and purchase for resale. Determine the appropriate inventory control models to use, warehousing location, warehouse layout, and organizational policies and procedures.

Hospital Operation- I (Patient Care)

Apply decision-support tools to business decision making. Application of knowledge of business concepts and functions in an integrated manner. Application of fundamental concepts of operations management. Specialized knowledge in Operations Management to solve business processes. Application of approaches to operational performance improvement.

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PROGRAM OUTCOMES (DIPLOMA MEDICAL SOCIAL WORK)

- To promote human resources aiming at improving the quality of life of poorest of the poor.
- To meet the growing demand for professionally trained social workers across the country.
- To provide social work education and training based on indigenous knowledge and uniform curriculum across the country.
- To help the learner acquire professional skills and knowledge to help the clients to deal with their emotional and psychological problems.
- To help the learner acquire professional skills and develop capacity in helping people to solve various social and economic problems.
- To help the learner to develop required attitudes in understanding people's problem-solving interventions.

PROGRAM SPECIFIC OUTCOME (DIPLOMA MEDICAL SOCIAL WORK)

POS 1: After post graduate degree, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Application Specialist.

POS 2: post graduate degree are able to contribute in all the health program of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

Ist YEAR

Origin and Development of Social Work (Theory)

After studying this course, student should be able to: identify why biography is important, understand how identity and attachment theory contribute to social work practice, recognise what qualities service users/carers value in social workers, understand what values are integral to a professional social worker's identity, understand what it means to practise reflectively.

Professional Social Work : Indian Perspectives (Theory)

Able to understand the fundamental concepts of social work profession in order to develop an insight about professional attitude and attribute; Capable to demonstrate the awareness about values and ethics of the social work profession.

Basic Social Science Concepts

Able to understand the genesis and the current scenario of social problems; Capable to understand the basic concepts related to contemporary Indian social concerns.

Social Work and Social Development (Theory)

Capable to understand the concepts, problems, policies and programs related to youth. Familiar with the concepts and processes of social policy, planning & development. Able to understand the significance of social policy & development in social work practice.

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IInd YEAR

Social Work Practicum and Supervision (Theory)

Capable to understand the contemporary areas of social work practice. Able to understand the needs & problems, policy framework, programs, various institutional & non-institutional services and social work interventions related these areas

Social Work Research (Theory)

Capable to understand the application of scientific methods of social research. Able to demonstrate skills in applying qualitative research techniques.

Case Work and Counselling: Working with individual

Able to understand the concepts, problems, policies and programs related to aged. Understand the social work practice for working with elderly, Able to understand the community, its structure and various aspects; Capable to understand the methodology, tools, techniques and skills to work directly in the society.

Social Group Work : Working with groups

1Able to demonstrate the familiarity with Group Work process; Capable to understand the methodology, tools, techniques and skills required for working with groups, able to understand the conceptual and theoretical aspects of palliative care in social work. Capable to develop the competence to address sensitive vital issues in palliative care practice.

Community Organization Management for Community Development

Able to understand the social welfare administration in order to get an insight about service delivery system; Able to understand the basics of entrepreneurial skills by learning the functioning of an NGO

Social Work Practicum and Supervision (Theory)

Capable to understand the contemporary areas of social work practice. Able to understand the needs & problems, policy framework, programs, various institutional & non-institutional services and social work interventions related these areas

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PROGRAM OUTCOME (TRAUMA CARE AND EMERGENCY MANAGEMENT)

To demonstrate competency in the knowledge and skills in providing comprehensive nursing care based on problem solving approach in the hospital and community. To demonstrate competency in the skills and techniques of nursing based on concepts and principles from selected areas of physical, biological and behavioural sciences. The student is professionally competent to be a member of health team in meeting the promotive, preventive and restorative health needs of the society.

PROGRAM SPECIFIC OUTCOME (TRAUMA CARE AND EMERGENCY MANAGEMENT)

POS 1: After Diploma, Student must be able to work successfully in Hospital, Diagnostic Centre educational institutes, Management.

POS 2: Diploma Students are able to contribute in all the health programmes of Government, improving the quality of life by giving educative knowledge to rural and urban population and contribute their knowledge.

COURSE OUTCOME

1st YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Applied Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system works in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

Triage and General Emergencies

To demonstrate competency in the skills and techniques of nursing based on concepts and principles from selected areas of physical, biological and behavioural sciences. Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardiovascular system.

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IInd YEAR

Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will able to explain the physiological systems of body and also understand the basis of diseases. Students will able to understand functioning of various systems included in syllabus as well as diseases mentioned

Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life. Administration of pharmacological agents (Routes of administration) general and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs)

Medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

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PROGRAM OUTCOME (DIPLOMA PERFUSION CARE TECHNOLOGY)

Perfusion Technologists prepare and operate heart-lung machines and other sophisticated equipment as directed by healthcare physicians. Perfusionists measure blood pressure and other parameters to identify appropriate mechanical, pharmacological and thermal manipulation to maintain tissue viability.

PROGRAM SPECIFIC OUTCOME (DIPLOMA PERFUSION CARE TECHNOLOGY)

Perfusionist must have a thorough understanding of both respiratory and circulatory systems, and be able to operate complex equipment. Additionally, the Perfusionist must be capable of handling stressful situations, paying great attention to detail, communicating effectively, and willing to stay abreast of new developments in the profession.

COURSE OUTCOMES

IST YEAR

Human Anatomy

After completion of the course students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus. This curriculum can stimulate the students to understand the basic anatomy of included system and the resultant unified organization thereupon.

Human Physiology

The course will develop an understanding of the function of organs and organ systems in normal human body. Students will be able to explain the physiological systems of body and also understand the basis of diseases. Students will be able to understand functioning of various systems included in syllabus as well as diseases mentioned

Biochemistry

Students will know basic knowledge of biochemistry, apparatus, units, equipment, and volumetric analysis in the Clinical Biochemistry the basics of reagent preparation, instrument handling and can perform common analytical in Clinical Biochemistry and will understand the chemistry, function, and biological importance of carbohydrates, proteins, lipids, nucleic acids, enzymes, vitamins and minerals.

Pathology & Microbiology

This curriculum will provide an introductory nature and build the concepts of how human system work in altered and diseased stage under the influence of various internal and external stimuli to the students. Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities. Subject of microbiology will develop handling of instruments and sterilization techniques.

IInd YEAR

Applied Pathology

Students will learn the differential diagnosis and appropriate diagnostic evaluation of common hematologic abnormalities and can perform the various type of tests involved in haematology, immunohematology, coagulation profile and can handle automated instruments.

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Applied Microbiology

Students will learn operation of Autoclave, hot air oven filters, Performance of Grams Stain, ZN Stain Preparation of pouring of media, Students would be able to identify and differentiate bacteria and fungus in biological samples. Able to carry out differential diagnosis of disease by the help of serological techniques.

General medicine

Demonstrate knowledge about established and evolving biomedical and clinical sciences related to cardio vascular system.

Applied Pharmacology

Basic principle of pharmacology (nomenclature, Biopharmaceutics, Pharmacokinetics, Absorption and distribution, Metabolism, Excretion, Pharmacodynamics, Mechanisms of action, Dose response and half-life) Administration of pharmacological agents (Routes of administration)

Neuropharmacology (antiparkinsonian, antiepileptic, mood disorders, antipsychotic, anxiolytic,) General and local anesthetic Analgesic (opioids, corticosteroids, NSAIDs) Drugs related cardiovascular system

Introduction to Perfusion Care Technology

Students will understand the use of equipment in CPB and also hand on training with the equipment and materials used. Students will be able to understand the principles and use of all the equipment and its making. Students will be able to collect the data before and at the time of surgery for equipment evaluation.

Clinical Aspect of Perfusion Care Technology

To learn the pharmacokinetics and pharmacodynamics during cardiopulmonary bypass. Dealing with conduction and termination of cardiopulmonary bypass and problems associated with it. Dealing with conduction and termination of cardiopulmonary bypass. Selection of appropriate equipment and instruments.

Advance Perfusion Care Technology

Use of machinery and amenities during emergency cases and conditions. Management of complications related to bypass and advanced extra corporeal life support. Team management of perfusion accidents and management.



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PROGRAM NAME: PG Diploma in Clinical Nutrition

PROGRAM OUTCOME

The students of PG Diploma in Clinical Nutrition after the completion of this programme gain expertise in Medical Nutrition Therapy and can serve in hospitals, Clinics and community at large.

PROGRAM SPECIFIC OUTCOMES

- POS 1:** After the completion of programme they are able to review, assess, and modify nutritional treatment plans and conduct patient assessments and administer treatment plans.
- POS 2:** They are able to understand and apply emerging trends, directions and studies regarding dietary guidelines
- POS 3:** They are able to train and develop professionals with expertise in medical nutrition management for services in hospitals and clinics.

COURSE OUTCOMES

Advanced Nutrition (Theory)

After completion of this course the students will obtain knowledge regarding metabolic processes of normal and diseases organs and tissues. Also, they will be familiar with dietary modifications based on physiological changes occurring in disease condition.

Medical Nutrition Therapy (Theory & Practical)

At the end of this course the students will understand the etiology, physiologic and metabolic anomalies of acute and chronic diseases and patient needs, effect of the various diseases on nutritional status and will be able to recommend and provide appropriate nutritional care for prevention/ and treatment of the various diseases.

Nutritional Biochemistry (Theory & Practical)

After finishing of this course the students will learn the role of nutrients in foods and deficiency diseases, metabolism of nutrients in health and diseases and regulation of metabolism.

Human Physiology (Theory)

After curtaining of this course the students will be able to understand the anatomy of cells, tissues and various organs in our body along with the functioning and regulation of various systems in our body.

Public Health Nutrition (Theory & Practical)

This course will focus on the promotion of good health through nutrition and primary intervention of nutrition related programs. Also they will be able to deal with nutritional epidemiology and public policies relevant to nutrition.

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Food Service Management (Practical)

After the completion of this course the students will develop food service management skills with professional approach backed by special skills, knowledge and vigilance at every stage of food service operation. They will acquire specific knowledge about training and developing manpower in food service unit.

Health Promotion (Practical)

On completion of this course, students will be able to carry out research-based project, demonstrate an understanding of the ethical issues associated with practitioner research, analyze data and synthesize research findings, report research findings in written and verbal forms and use research findings to advance education theory and practice.

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