



DEPARTMENT OF SURGERY

Course	MBBS
Program outcome	<p>At the end of the course, the student should be able to:</p> <ol style="list-style-type: none">1. Describe etiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies, in adults and children.2. Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion.3. Define asepsis, disinfection and sterilization and recommended judicious use of antibiotics.4. Describe common malignancies in the country and their management including prevention.5. Enumerate different types of anesthetic agents, their indications, mode of administration, contraindications and side effects.
Program specific outcome	<p>At the end of the course, the student should be able to:</p> <ol style="list-style-type: none">1. Diagnose common surgical conditions both acute and chronic, in adult and children.2. Plan various laboratory tests for surgical conditions and interpret the results.3. Identify and manage patients of hemorrhagic, septicemic and other types of shock.4. Be able to maintain patent air-way and resuscitate:-<ol style="list-style-type: none">a. a critically injured patientb. patient with cardio-respiratory failurec. a drowning case5. Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children.6. Provide primary care for a patient of burns.7. Acquire principles of operative surgery, including pre-operative, operative and post-operative care and monitoring.8. Treat open wounds including preventive measures against tetanus and gas gangrene.9. Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary/tertiary centres.10. Identify congenital anomalies and refer them for appropriate management.
Course outcome	<p>At the end of the course, the student should have the knowledge to identify common surgical conditions and acquire skills making him/her capable of delivering efficient first contact surgical care to the patients.</p>

Course	M.S (GENERAL SURGERY)
Program outcome	<p>A student upon successfully qualifying in the M.S (General Surgery) examination should be able to:</p> <ol style="list-style-type: none"> 1. Practice the specialty of surgery in keeping with the principles of professional ethics. 2. Recognize and identify various surgical problems. 3. Institute diagnostic, therapeutic, rehabilitative and preventive measures to provide holistic surgical care to the patient. 4. Perform relevant investigative and therapeutic procedures. 5. Develop skills as a self-directed learner; recognize continuing educational needs 6. Carry out the thesis activity, record it methodically and critically analyze and compare relevant published literature. 7. Facilitate learning of medical/nursing students, practicing physicians, para-medical health workers and other providers as a teacher/trainer. 8. Demonstrate empathy and human approach towards patients and their family.
Program specific outcome	<p>A student upon successfully qualifying in the M.S (General Surgery) examination should be able to:</p> <ol style="list-style-type: none"> 1. Take detailed history, perform full physical examination and make clinical diagnosis. 2. Interpret important imaging and laboratory results. 3. Independently perform minor and common major general surgical operative procedures. 4. Manage surgical trauma and acute surgical emergencies efficiently. 5. Undertake wound management. 6. Write and maintain clinical records of the patients. 7. Communicate effectively with the patient and relatives regarding disease, its management and prognosis; providing counselling and giving health education to patients, families and communities. 8. Use appropriate learning resources, and critically analyze relevant published literature including recent advances in order to practice evidence based surgery 9. Carry out research, record it methodically and critically analyze and compare relevant published literature 10. Organize and supervise the overall patient management in a surgical unit from admission to the discharge.
Course outcome	<p>The goal of MS course in Surgery is to produce a competent surgeon who has acquired the competence pertaining to surgery that is required to be practiced in the community and at all levels of health care system. He/she should acquire optimal surgical skills to independently operate on elective and emergency cases and communicate effectively with patients and their family. In addition he/she should be aware of the latest developments in the field of surgery; is oriented to principles of research methodology, and has acquired skills in educating medical and paramedical professionals.</p>

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