

MD ANAESTHESIOLOGY

- History of Anaesthesiology
- Basic sciences related to Anaesthesiology (Anatomy, Physiology, Pharmacology, Microbiology, Pathology, and Genetics)
- Medicine applied to Anaesthesiology
- Physics related to Anaesthesiology
- Biostatistics, research methodology
- Evidence based Medicine in Anaesthesiology
- Computer basics, internet
- Medical Record keeping & audit
- Uptake and distribution of Anaesthetic gases
- Equipments used in anaesthesia
- Medical gas plant & pipeline system
- Drugs & Gases used in Anaesthesia
- Medico legal aspects of Anaesthesia
- Pre Anaesthetic evaluation, preparation & Perioperative care
- General Anaesthesia including Endotracheal Anaesthesia
- Regional Anaesthesia
- Local Anaesthesia & Nerve blocks
- Intravenous Anaesthesia
- Outpatient Anaesthesia
- Obstetric analgesia
- Accidents, complications & sequelae of Anaesthesia
- Anaesthesia outside operation room
- Acid Base balance
- Fluid & Electrolyte balance
- Blood & blood products
- Airway management & resuscitation
- Cardiopulmonary resuscitation
- Critical care management
- Trauma management
- Oxygen & respiratory therapy
- Sterilization & care of operation theatre & equipments
- Safety of operation theatre environment
- Acute & chronic pain therapy
- Palliative care
- Disaster management
- Communication & Teaching skills
- Updating of recent advances in Anaesthesiology
- Anaesthetic management of Organ Transplantation
- Scope of Modern Anaesthetic practice
- Teaching Anaesthesia
- Sub specialty Anaesthetic management
- Ancillary problems and responsibilities

- Basic Graduate skills:
- Insertion of IV lines
- Insertion of Nasogastric tube
- Monitoring vital signs
- Anaesthesia Skills:
- Basic airway management
- Difficuly airway management
- Orotracheal / Nasotracheal intubation
- Airway equipments
- Local anaesthesia
- Regional Anaesthesia
- Neuraxial blockade
- Intravenous Regional Anaesthesia
- Total intravenous Anaesthesia
- Monitored Anaesthesia Care
- General Anaesthesia
- Perioperative monitoring
- Critical Care procedures:
- Airway Management (Cricothyrotomy, tracheostomy)
- Fiberoptic bronchoscopy
- Arterial cannulation
- Central venous cannulation
- Pulmonary artery catheterisatiion
- Sampling & interpretation of ABG
- Fluid & Electrolyte management
- Ventilatory care
- Intercostal drainage
- Intensive Care Therapy
- Ultrasound and echo in ICU
- Emergency room procedures:
- Management of airway obstruction
- Cardiopulmonary resuscitation (BLS & ACLS)
- Management of cardiac failure
- Management of respiratory failure
- Management of shock
- Pain Therapy:
- Common modalities of acute & chronic pain therapy
- Perioperative pain management
- Labour analgesia
- TENS
- PCA
- Common nerve blocks
- Neurolytic & nerve ablation procedures
- Psychological aspects of pain therapy
- Palliative care

