Scientific Lectures General Surgery (2st Part) :

Module -1

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| **Date** | **Title** | **Supervisor's signature** |
|  | **1-General Topics:**   * Surgical infections and antibiotics. * Specific infections of surgical importance: Tetanus – gas gangrene * Systemic Response t0o Injury and Metabolic Support. * Management of acutely and seriously ill patient. * Fluid and Electrolyte Management of the Surgical Patient. * Hemostasis & Surgical Bleeding. * Blood transfusion & blood substitutes. * Shock. * Trauma. * Burns. * Wound Healing. * General Principles of oncology. * Surgical immunology & Transplantation. * The Skin and Subcutaneous Tissue: Basal cell carcinoma – squamous cell carcinoma – Malignant melanoma – Ulcers – abscesses – sinuses – fistulae – skin swellings –Pre-malignant skin lesion- benign & skin lesion . * Soft Tissue Sarcomas. * Perioperative surgical management. * LASER in surgery. * Surgical nutrition. * Patient safety, errors and complication in surgery. * Physiologic monitoring of the surgical patients. * Minimally invasive surgery. * Adjuvant and adjunctive therapy in malignant diseases. * Brach therapy and Radiofrequency ablation. |  |

Scientific Lectures (2st Part) :

Module -1

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| **Date** | **Title** | **Supervisor's signature** |
|  | **2-Urology:**   * Urologic trauma. * Urologic Malignancies. * Urinary stones. |  |
|  | **3-Orthopedic surgery:**   * Orthopedic trauma. * Fracture spine. * Fracture pelvis. * Orthopedic tumors |  |
|  | **4-Plastic Surgery:**   * Flaps. * Grafts. * Reconstructive surgery. * Jaw swellings. * Maxillofacial injuries. |  |
|  | **5-Neurosurgery:**   * Peripheral nerve injuries. * Head trauma. * Brain tumors. * Cerebro-vascular disorders. |  |
|  | **6-Scrotum & Hernias:**   * Testicular tumors. * Varicocele. * Hydrocele. * scrotal swellings. * Testicular emergencies. |  |

Scientific Lectures (2st Part) :

Module -1

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| **Date** | **Title** | **Supervisor's signature** |
|  | **7-Hernia:**   * Internal hernias. * External Hernias: Inguinal – femoral – ventral hernias- Incisional . * Other rare types. |  |
|  | **8-cardiothoracic surgery:**   * chest trauma. * CABAG. * Empyma. * Lung tumours. |  |

Scientific Lectures (2st Part) :

Module -2

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| **Date** | **Title** | **Supervisor's signature** |
|  | **1- Breast Surgery:**  Benign conditions – Breast cancer – Nipple discharge. |  |
|  | **2-Head & neck Surgery**   * Tracheostomy. * Neck fistulae. * Neck swellings * Salivary gland tumours (benign and malignant). * Neck dissection. * Tongue ulcers & cancer tongue. * Cancer lip & floor of the mouth. |  |
|  | **3-Vascular Surgery**   * Arterial Disease: Acute and chronic ischaemia – peripheral aneurysms - & Pseudoaneurysm – Abdominal aortic aneurysm - Vasculities * Venous diseases: varicose veins – DVT – Chronic venous insufficiency. * Vascular malformations & Haemangioma. * Lymphatic Disease: lymphoedema – Lymph node disorders. * Differential diagnosis of swollen limbs. * Gangrene and amputations. * Thoracic outlet syndrome and other compression syndromes. * Vascular trauma. |  |

Scientific Lectures (2st Part) :

Module -2

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| **Date** | **Title** | **Supervisor's signature** |
|  | **4-Pediatric Surgery:**   * Pediatric Malignancy. * Epispadius & Hypospadius. * Neck Masses. * Pediatric GIT disordes. * Cleft lip & Cleft palate. * Pediatric jaundice. * Childhood tumors. * Neonatal intestinal obstruction. * Anomalis of vitellointestinal duct. |  |

Scientific Lectures (2st Part) :

Module -3

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| **Date** | **Title** | **Supervisor's signature** |
|  | **1-GIT & abdominal Surgery:**   * Esophagus: GERD & diaphragmatic hernia – motility disorders – cancer oesophagus and dysphagia. * Stomach: Peptic ulcer – tumors – gastric outlet obstruction. * Small Intestine: benign tumors – malignant tumors – intestinal obstruction – inflammatory diseases- diverticulae. * Colon, Rectum, and Anus: inflammatory diseases – polyps – tumors – obstruction- anal (fissure- fistula – haemorrhoids - perianal abscess) – rectal prolapse. * Carcinoid tumor of GIT. * The Appendix. * Liver: abscess- tumors - Hydated diseas –Hepatomegaly – Liver resections- Portal vein thrombosis.   -Gallbladder and the Extrahepatic   * Biliary System. * Pancreas: Pancreatitis – exocrine pancreatic tumors. * Spleen: splenomegaly & Hypersplenism – Hydated diseas. * Ileostomy – colostomy – GIT fistulae. * Abdominal Wall, Omentum, Mesentery, and Retroperitoneum: Hernias –burst abdomen- MVO- Peritoneal and retroperitoneal tumors. * Portal hypertension. * Upper GIT bleeding. * Lower GIT bleeding. * Abdominal trauma. |  |

Scientific Lectures (2st Part) :

Module -3

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| **Date** | **Title** | **Supervisor's signature** |
|  | **2-Endocrine Surgery:**   * Thyroid gland. * Parathyroid glands. * Adrenal glands.   - MEN syndromes   * Endocrinal disorders of pancrease. |  |
|  | **3-Bariatric Surgery:**   * Surgical management of morbid obesity. |  |

Scientific Lectures (2nd Part) :

Elective Course

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| **Date** | **Title** | **Supervisor's signature** |
|  | [A] Stem Cell Therapy   1. [Current treatments](http://en.wikipedia.org/wiki/Stem-cell_therapy#Current_treatments) 2. [Potential treatments](http://en.wikipedia.org/wiki/Stem-cell_therapy#Potential_treatments)    1. [Brain damage](http://en.wikipedia.org/wiki/Stem-cell_therapy#Brain_damage)    2. [Stem Cell Technologies](http://en.wikipedia.org/wiki/Stem-cell_therapy#Stem_Cell_Technologies)    3. [Cancer](http://en.wikipedia.org/wiki/Stem-cell_therapy#Cancer)    4. [Spinal-cord injury](http://en.wikipedia.org/wiki/Stem-cell_therapy#Spinal-cord_injury)    5. [Heart damage](http://en.wikipedia.org/wiki/Stem-cell_therapy#Heart_damage)    6. [Hematopoiesis (blood-cell formation)](http://en.wikipedia.org/wiki/Stem-cell_therapy#Hematopoiesis_.28blood-cell_formation.29)    7. [Baldness](http://en.wikipedia.org/wiki/Stem-cell_therapy#Baldness)    8. [Missing teeth](http://en.wikipedia.org/wiki/Stem-cell_therapy#Missing_teeth)    9. [Deafness](http://en.wikipedia.org/wiki/Stem-cell_therapy#Deafness)    10. [Blindness and vision impairment](http://en.wikipedia.org/wiki/Stem-cell_therapy#Blindness_and_vision_impairment)    11. [Amyotrophic lateral sclerosis](http://en.wikipedia.org/wiki/Stem-cell_therapy#Amyotrophic_lateral_sclerosis)    12. [Graft vs. host disease and Crohn's disease](http://en.wikipedia.org/wiki/Stem-cell_therapy#Graft_vs._host_disease_and_Crohn.27s_disease)    13. [Neural and behavioral birth defects](http://en.wikipedia.org/wiki/Stem-cell_therapy#Neural_and_behavioral_birth_defects)    14. [Diabetes](http://en.wikipedia.org/wiki/Stem-cell_therapy#Diabetes)    15. [Transplantation](http://en.wikipedia.org/wiki/Stem-cell_therapy#Transplantation)    16. [Stem cell educator therapy](http://en.wikipedia.org/wiki/Stem-cell_therapy#Stem_cell_educator_therapy)    17. [Orthopaedics](http://en.wikipedia.org/wiki/Stem-cell_therapy#Orthopaedics)    18. [Wound healing](http://en.wikipedia.org/wiki/Stem-cell_therapy#Wound_healing)    19. [Infertility](http://en.wikipedia.org/wiki/Stem-cell_therapy#Infertility) 3. [Clinical trials](http://en.wikipedia.org/wiki/Stem-cell_therapy#Clinical_trials) 4. Stem cell use in animals |  |

Scientific Lectures (2nd Part) :

Elective Course

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| **Date** | **Title** | **Supervisor's signature** |
|  | B] Micro vascular Surgery   1. Free tissue transfere 2. Replantation 3. Transplantation |  |
|  | C- ATLS |  |

Scientific Lectures (2nd Part) :

Elective Course

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| **Date** | **Title** | **Supervisor's signature** |
|  | [D] Bariatric Surgery  [1- Indications](http://en.wikipedia.org/wiki/Bariatric_surgery#Indications)  [2- Classification of surgical procedures](http://en.wikipedia.org/wiki/Bariatric_surgery#Classification_of_surgical_procedures)  [Predominantly malabsorptive procedures](http://en.wikipedia.org/wiki/Bariatric_surgery#Predominantly_malabsorptive_procedures)  [Biliopancreatic diversion](http://en.wikipedia.org/wiki/Bariatric_surgery#Biliopancreatic_diversion)  [Jejunoileal bypass](http://en.wikipedia.org/wiki/Bariatric_surgery#Jejunoileal_bypass)  [Endoluminal sleeve](http://en.wikipedia.org/wiki/Bariatric_surgery#Endoluminal_sleeve)  [Predominantly restrictive procedures](http://en.wikipedia.org/wiki/Bariatric_surgery#Predominantly_restrictive_procedures)  [Vertical banded gastroplasty](http://en.wikipedia.org/wiki/Bariatric_surgery#Vertical_banded_gastroplasty)  [Adjustable gastric band](http://en.wikipedia.org/wiki/Bariatric_surgery#Adjustable_gastric_band)  [Sleeve gastrectomy](http://en.wikipedia.org/wiki/Bariatric_surgery#Sleeve_gastrectomy)  [Intragastric balloon (gastric balloon)](http://en.wikipedia.org/wiki/Bariatric_surgery#Intragastric_balloon_.28gastric_balloon.29)  [Gastric Plication](http://en.wikipedia.org/wiki/Bariatric_surgery#Gastric_Plication)  [Mixed procedures](http://en.wikipedia.org/wiki/Bariatric_surgery#Mixed_procedures)  [Gastric bypass surgery](http://en.wikipedia.org/wiki/Bariatric_surgery#Gastric_bypass_surgery)  [Sleeve gastrectomy with duodenal switch](http://en.wikipedia.org/wiki/Bariatric_surgery#Sleeve_gastrectomy_with_duodenal_switch)  [Implantable gastric stimulation](http://en.wikipedia.org/wiki/Bariatric_surgery#Implantable_gastric_stimulation)  [3- Eating after bariatric surgery](http://en.wikipedia.org/wiki/Bariatric_surgery#Eating_after_bariatric_surgery)  [Fluid recommendations](http://en.wikipedia.org/wiki/Bariatric_surgery#Fluid_recommendations)  [4- Effectiveness of surgery](http://en.wikipedia.org/wiki/Bariatric_surgery#Effectiveness_of_surgery)  [Weight loss](http://en.wikipedia.org/wiki/Bariatric_surgery#Weight_loss)  [Reduced mortality and morbidity](http://en.wikipedia.org/wiki/Bariatric_surgery#Reduced_mortality_and_morbidity)  [5- Adverse effects](http://en.wikipedia.org/wiki/Bariatric_surgery#Adverse_effects) |  |

Scientific Lectures (2nd Part) :

Elective Course

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| **Date** | **Title** | **Supervisor's signature** |
|  | [E} Head and Neck Reconstruction  1. How do we plan for your head & neck reconstruction? 2. Local Flaps 3. Types of free flaps 4. Radial free flap 5. Fibula free flap 6. Paramedian Forehead Flap |  |  |  |  |  |  |
|  | [F] Statistics and Research methodology  [1 Scope](http://en.wikipedia.org/wiki/Statistics#Scope)  [2 History](http://en.wikipedia.org/wiki/Statistics#History)  [3 Overview](http://en.wikipedia.org/wiki/Statistics#Overview)  [4 Statistical methods](http://en.wikipedia.org/wiki/Statistics#Statistical_methods)  [4.1 Experimental and observational studies](http://en.wikipedia.org/wiki/Statistics#Experimental_and_observational_studies)  [4.2 Levels of measurement](http://en.wikipedia.org/wiki/Statistics#Levels_of_measurement)  [4.3 Key terms used in statistics](http://en.wikipedia.org/wiki/Statistics#Key_terms_used_in_statistics)  [4.4 Examples](http://en.wikipedia.org/wiki/Statistics#Examples)  [5 Specialized disciplines](http://en.wikipedia.org/wiki/Statistics#Specialized_disciplines)  [6 Statistical computing](http://en.wikipedia.org/wiki/Statistics#Statistical_computing)  [7 Misuse](http://en.wikipedia.org/wiki/Statistics#Misuse)  [8 Statistics applied to mathematics or the arts](http://en.wikipedia.org/wiki/Statistics#Statistics_applied_to_mathematics_or_the_arts) |  |
|  | (G) Cardio Thoracic Surgery |  |
|  | (H)Neuro Surgery |  |