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.
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Scientific Lectures (2st Part) :

Module -1

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|  **Date** |  **Title** | **Supervisor's signature** |
|  | **2-Urology:*** Urologic trauma.
* Urologic Malignancies.
* Urinary stones.
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|  | **3-Orthopedic surgery:*** Orthopedic trauma.
* Fracture spine.
* Fracture pelvis.
* Orthopedic tumors
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|  | **4-Plastic Surgery:*** Flaps.
* Grafts.
* Reconstructive surgery.
* Jaw swellings.
* Maxillofacial injuries.
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|  | **5-Neurosurgery:*** Peripheral nerve injuries.
* Head trauma.
* Brain tumors.
* Cerebro-vascular disorders.
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|  | **6-Scrotum & Hernias:*** Testicular tumors.
* Varicocele.
* Hydrocele.
* scrotal swellings.
* Testicular emergencies.
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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.
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|  | **8-cardiothoracic surgery:*** chest trauma.
* CABAG.
* Empyma.
* Lung tumours.
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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.
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|  | **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.
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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.
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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.
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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.
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|  | **3-Bariatric Surgery:*** Surgical management of morbid obesity.
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Scientific Lectures (2nd Part) :

Elective Course

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|  **Date** |  **Title** | **Supervisor's signature** |
|  | [A] Stem Cell Therapy1. [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
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Scientific Lectures (2nd Part) :

Elective Course

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|  **Date** |  **Title** | **Supervisor's signature** |
|  | B] Micro vascular Surgery1. Free tissue transfere
2. Replantation
3. Transplantation
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|  | 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 Reconstruction1. 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
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|  | [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  |  |