

# STUDY GUIDE FOR SURGERY AND ALLIED FOR MBBS STUDENTS



LAHORE MEDICAL AND DENTAL COLLEGE

STUDY GUIDE, Department of Surgery 2022

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# **LIST OF FACULTY MEMBERS OF GENERAL SURGERY**

Dr. Hasnat Ahmad Butt MBBS, FCPS

Professor of Surgery & Head of Surgery Department



Dr. Saquib Zahoor MBBS, FCPS

Professor of Surgery



Dr. Zahid Mahmood MBBS, FCPS

**Professor of Surgery** 



Dr. Syed Imran Hussain Andrabi MBBS, FCPS, FRCS

**Professor of Surgery** 



Dr. Shaukat Rabbani MBBS, FCPS Professor of Surgery



Dr. Wasif Majeed Chaudhry MBBS, FCPS, MHPE Professor of Surgery



**Dr. Sidra Shoaib**MBBS, FCPS

Associate Professor of Surgery



Dr. Maryam Jamil MBBS, FCPS Assistant Professor of Surgery



# **HIERARCHY PLAN**

# Head of Department Prof. Dr. Abdul Majeed Chaudhary

# Professor Dr. Saqib Zahoor Professor of Surgery Professor Dr. Zahid Mahmood Professor of surgery Dr. Wasif Majeed Chaudhary Associate Professor Dr.Mariam Assisstant Professor Dr.Inza Talal Senior Registrar

# **SURGICAL UNIT 2**

Professor Dr. Hasnat Ahmad Butt
Professor of Surgery

Professor Dr. Imran Hussain Andrabi Professor of surgery

Professor Dr. Shaukat Rabbani Professor of Surgery

> Dr.Sidra Shoaib Qureshi Associate Professor

> > Dr.Abrar Zahid Senior Registrar

# INTRODUCTION

Medical education is a life-long process and MBBS curriculum is a part of the continuum of education from pre-medical education, MBBS, proceeding to house job, and post-graduation. PM&DC outlines the guiding principles for undergraduate medical curriculum and has defined the generic competencies and desired outcomes for a medical graduate to provide optimal health care, leading to better health outcomes for patients and societies. These generic competencies set the standards of care for all physicians and form a part of the identity of a doctor. Each competency describes a core ability of a competent physician. This study guide will give an insight to the students about all these competencies and how to plan their educational activities in the subject of surgery for the three years period.

# **TARGET AUDIENCE**

 $1^{st}$  ,  $2^{nd}$  year  $3^{rd}$  ,  $4^{th}$  and  $5^{th}$  year MBBS students  $3^{RD}$  year BDS  $4^{TH}$  Year DPT

# **DURATION OF COURSE**

		3rd Year MBBS			REQUIRED	SURGERY HOURS
	Lecture hrs	Ward hrs	Evening hrs			
	26 Lec / session 45 min/lec	22 classes/Batch 2 hours/ Class	2 hrs/ day 15 days/batch			
General Surgery	19.5 hrs	44 hours	30 hrs			
Total hrs		93.5 hou	rs			93.5
		4th Year MBBS				
	Lecture hrs	Ward hrs	Evening hrs	CPC		
	2/week 72 lec/session 45 min/lec	2 hrs/day 29 classes/Batch	3 hrs/day 22 days/batch	4/session 60 min/cpc	600	
General Surgery	54 hrs	58 hrs	66 hrs	4 hrs		
Total hrs		182 hou	rs			182
		5th Year MBBS				
	Lecture hrs	Ward hrs	Evening hrs	CPC		
	4/week 132 lec/session 45 min/lec	12 weeks/batch 4 days/week 3.75 hrs/day	3 hrs/day 14 days /batch	4/session 60 min/cpc		325
General Surgery	99 hrs	180 hrs	42 hrs	4 hrs		
Total hrs.		325 hr	S			600.5
		5th Year MBBS Ortho	paedics			

	Lecture hrs	Ward hrs	Evening hrs	CPC		
	1/week 36 lec/session 45 min/lec	3 days/batch 3.75 hrs/day	3.75 hrs a day/ 16 days per batch	4/session 60 min/cpc		
General Surgery	27	11.25	57.75	4		
TOTAL hrs.		102 HR	RS		100	100
		5th Year MBBS Uro	logy			
	Lecture hrs	Ward hrs	Evening hrs	СРС		
	1 lec /week 36 lec/session 45 min/lec	6 days/batch 3.75 hrs/day	4 hrs a day/12days per batch	2/session 60 min/cpc		
Urology	27 hrs	22.5 hrs	48 hrs	2 hrs		
TOTAL hrs.		99.5 HR	as		100	99.5
		5th Year MBBS Anaes	sthesia			
	Lecture hrs	Ward hrs	Evening hrs	CPC		
	12 lec/session 45 min/lec	3 days/batch 3.75 hrs/day	3.5 hrs a day /8 days per batch	2/session 60 min/cpc		
General Surgery	09 hrs	11.25 hrs	28 hrs	2 hrs		
TOTAL hrs		50.25 h	rs		50	50.25
					<mark>850</mark>	850.25

# **Duration of session**

3<sup>rd</sup> year: February 2023- OCTOBER 2023

4th year: MARCH 2023- NOVEMBER 2023

5<sup>th</sup> year: MARCH 2023- NOVEMBER 2023

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# LEARNING OBJECTIVES/OUTCOMES (knowledge, skills, attitude)

By the end of this academic session the students should be able,

- 1) to acquire specific knowledge, essential skills and appropriate attitude of the human body
- 2) to become problem solvers, dealing effectively with familiar and unfamiliar situations
- 3) to become lifelong learners
- 4) to direct their own learning and evaluate this activity
- 5) to be able to reason critically and make justifiable decisions regarding patient management
- 6) to practice evidence-based medicine
- 7) to always ensure patient safety
- 8) to ensure compliance with the legal system in accordance with the PM&DC regulations
- 9) to adopt a multidisciplinary approach for health promoting interventions
- 10) Medical graduates should be able to demonstrate professional values of self and professional accountability, honesty, and ethics
- 11) Medical graduates are expected to demonstrate exemplary professional conduct
- 12) to be able to understand the pathogenesis of specific diseases
- 13) to be able to take a focused history and identify the patient's risk factors related to the disease process
- 14) to be able to perform a physical examination on a patient, to diagnose specific surgical diseases and differentiate from other systems
- 15) to formulate a provisional diagnosis with justification, and the likely differential diagnoses
- 16) to be able to select appropriate biochemical investigations and interpret their reports to confirm the diagnosis
- 17) to be able to select specific radiological investigations for specific diseases
- 18) to be able to apply evidence-based medicine concepts for the medical treatment of different diseases
- 19) to be able to describe the required surgical procedures for different diseases

# **Essential Skills to be acquired**

- 1. Provide First Aid: Resuscitation (ABC) of polytrauma, CPR.
- 2. Collect samples of blood, urine, stool, sputum, pus swab etc.
- 3. Insert Naso-gastric tube, have observed chest intubation and paracentesis.
- 4. Do IV cannulation, have observed CV-line insertion and cut- down of veins.
- 5. Catheterize male and female patients.
- 6. Prepare the patient for and know the procedure of doing X-Ray chest, abdomen, KUB, bones,IVU, barium studies, ultrasound and other imaging investigations.
- 7. Principles of pre-operative preparations, sterilization/disinfection techniques.
- 8. Principles of wound care, skin suturing and suture removal, incision, tissue lumps, needle biopsies, aspiration of localized fluids, etc.
- 9. Have observed common surgical procedures, treatment of fracture/ dislocation and methods of general / local anaesthesia.
- 10. Apply bandage and splint/pop cast to the patient's limbs.
- 11. Have observed instillation of chemotherapy and principles of radiotherapy

# **SYLLABUS MBBS**

The course outline is as follows:

### GENERAL SURGERY

# **Principles of Surgery**

- Metabolic response to Surgical trauma and homeostasis
- Pathophysiology and Management of Shock
- Fluid, electrolyte and acid base balance
- Haemorrhage, coagulopathy and Blood/products Transfusion and its complications
- Nutrition of surgical patients
- Wounds, wound repair and its complications
- Investigation and treatment of common Infections and Parasitic Infestations of Surgical Importance including clinical therapeutics
- Gas Gangrene and Tetanus
- Special Infections related to surgery
- Tuberculosis
- Principles in the Management of common Skin and Soft Tissue Problems: Ulcers, abscesses, inflammations, cysts, sinuses & fistulae, swellings, embedded foreign Bodies, minor Injuries and benign and malignant conditions
- Principles of oncologic therapy and palliation
- Principles of organ transplantation and its ethics and implications
- Surgical Audit
- Surgical ethics

# Trauma

- Pre-hospital care
- Triage
- Primary survey, ABCDE
- Primary Survey of Polytrauma patients with airway difficulty and circulatory instability
- External Haemorrhage
- Airway management
- Tension Pneumothorax
- Cardiac Tamponade

# **Head** injuries

- Resuscitation
- Management of the Patient with Head Injury
- Management of an Unconscious patient due to Head Injury and Glasgow Coma Scale
- Skull fractures

- Intracranial pressure
- Intracranial hemorrhage
- Cervical spine injury
- Spinal cord trauma
- Blunt and Penetrating Injuries of chest and their Complications including haemothorax, pneumothorax, resuscitation, chest drains
- Principles of management of (blunt and penetrating), liver/spleen, pelvic and urogenital trauma
- Principles of management of fractures / dislocation
- Focused Abdominal Sonographic Assessment for trauma (FAST)
- Peripheral nerve Injuries
- Amputations

# Lump/swelling

- Congenital
- Traumatic
- Inflammatory
- Neoplastic

# **Neck swelling**

- Lymphadenopathy (Inflammatory), acute and chronic
- Chronic granulomatous
- Neoplastic benign/malignant
- Lymphatic leukemia
- Autoimmune disorders
- Lipoma
- Neurofibroma
- Sebaceous cyst
- Sublingual dermoid
- Thyroglossal cyst
- Salivary Glands: calculi, enlargement (benign/malignant)
- Thyroid gland enlargement
- Branchial cysts, sinus or fistula
- Cystic hygroma
- Carotid artery tumor

# Plastic and reconstructive surgery

- Principles of skin coverage
- Common benign and malignant skin lesions
- Burns, principles of management

- Cleft lip and palate
- Epispadius
- Hypospadius

# **Principles of Anaesthesia**

- Pre-operative assessment of patients and pre-medication
- Local Anaesthesia
- Local Anaesthetic agents (Pharmacology)
- Regional Anaesthesia (Spinal and Epidural)
- Intravenous Anaesthetic agents
- Muscle Relaxants
- Inhalational Anaesthetic agents
- Complications of Anaesthesia
- Perioperative Management
- Recovery from Anaesthesia
- Pain Management and postoperative care
- ICU Monitoring

# Neurosurgery

- Raised intracranial pressure/ hydrocephalus
- Introduction to intracranial infections
- Introduction to intracranial tumors
- Peripheral nerve Injuries

# Paediatric surgery

- Pediatrics Tumors
- Neonatal surgical problems
- Tracheoesophageal malformations
- Pyloric stenosis
- Hirschsprung's disease
- Imperforate anus
- Intestinal obstruction
- Intussusception
- Foreign body (Aspirated or Ingested)

# SYSTEMIC SURGERY

# Head, face and neck

- 1. Developmental abnormalities of face, palate, lips.
- 2. Principles of management of head injuries and its complications.
- 3. Oral cavity including tongue.
- 4. Diseases of salivary glands (Inflammation, Calculus, Tumours)
- 5. Neck lumps including lymph nodes, thyroid and parathyroid

### Breast

- 1. Diseases of the breast, nipple and areola
- 2. Benign and malignant tumours.

# Chest wall & thorax

- 1. Blunt & penetrating injuries and their complications.
- 2. Lung abscess and empyema thoracis.
- 3. Tumors and cysts in the lungs.

# **Gastro Intestinal Tract**

Diseases causing oesophageal obstruction.

Peptic ulcer disease & its complications.

Tumours of stomach.

conditions causing acute abdomen

Conditions causing chronic abdomen including malignant lesions of small and large bowel Ano-rectal and peri-anal conditions requiring surgery.

# Abdominal, Pelvic and Genital Trauma and Hernia

- 1. Principles in management of abdominal pelvic and urogenital trauma.
- 2. Inguinal/Inguinoscrotal and femoral hernia.
- 3. Epigastric hernia/umbilical/ para-umbilical hernia.
- 4. Incisional hernia.

### Liver

- 1. Trauma.
- 2. Obstructive jaundice.
- 3. Liver abscess.
- 4. Hydatid cyst.
- 5. Malignancy (Hepatoma & secondaries)

## Gall Bladder

1. Acute and chronic cholecystitis.

- 2. Cholelithiasis and its complications.
- 3. Tumors

# **Pancreas**

- 1. Acute, relapsing and chronic pancreatitis.
- 2. Pancreatic masses including cysts
- 3. Benign and malignant neoplasia.

# Spleen

- 1. Trauma
- 2. Surgical aspects of spleen

# **Urinary Tract**

- 1. Common congenital anomalies.
- 2. Infection & its sequelae.
- 3. Calculus disease and its sequelae.
- 4. Bladder lesions.
- 5. Enlarged prostate.
- 6. Urogenital trauma.
- 7. Neoplasms of kidney and urinary tract.

# External Genitalia, Male and Female

- 1. Developmental abnormalities.
- 2. Common pelvic conditions

# Scrotal and testicular lesions

- 1. Scrotal swelling.
- 2. Testicular swelling.

# Skin & Soft Tissues

- 1. Common benign and malignant skin lesions.
- 2. Wounds/ulcers/abscesses/sinuses/fistulae.
- 3. Soft tissue lumps.

# Vascular and Nerve Disorders

- 1. Vascular afflictions and limb ischaemia
- 2. Varicosities
- 3. Deep venous thrombosis.
- 4. Peripheral nerve injuries

# Radiology

# Orthopedics

Applied basic orthopaedics

Congenital and developmental diseases Bone & joint infection

Metabolic bone disease Neuro muscular disorders Bone Tumors

Neck pain, low back pain Arthritis

Soft Tissue Injury Deformity Fractures

# **Table of Specifications**

# MBBS FINAL PROFESSIONAL SURGERY PAPER-I (MULTIPLE CHOICE QUESTIONS)

50 MCQs of one mark each

Time allowed 01 hour

Sr. No	Торіс	No of Questions
1	Surgical Anatomy	3
2	Wounds, tissue repair and scars	3
3	Accident and emergency Surgery, Warfare Injuries	3
4	Fluid, electrolytes and Acid base Balance	3
5	Blood Transfusion and Shock	3
6	Nutrition	3
7	Wound Infection	3
8	Special Infection, AIDS, Sterile Precautions	3
9	Tumors, Cysts, Ulcers and Sinuses	3
10	Burns	3
11	Skin Lesions; Skin Grafts and Flaps	3
12	Arterial Disorders	3
13	Venous Disorders	3
14	Lymphatic Disorders	3
15	Principles of Anaesthesia and Pain Management	3
16	Principles of Radiology	3
17	Principles of radiotherapy and Chemotherapy	3

# **SURGERY PAPER-I (SHORT CHOICE QUESTIONS)**

# **Table of Specification**

10 SEQs of five marks each

Time allowed 02 hour

Question No	Content
1	Surgical Anatomy
2	Wounds, tissue repair and scars, Accident and emergency Surgery, Warfare Injuries
3	Fluid, electrolytes and Acid base Balance; Blood Transfusion and Shock and Shock
4	Nutrition
5	Wound Infection, Special Infection, AIDS, Sterile Precautions
6	Tumors, Cysts, Ulcers and Sinuses, Burns, Skin Lesions; Skin Grafts and Flaps
7	Arterial, Venous and Lymphatic Disorders
8	Principles of Anaesthesia and Pain Management
9	Principles of Radiology
10	Principles of radiotherapy and Chemotherapy

# **SURGERY PAPER-II (MULTIPLE CHOICE QUESTIONS)**

# **Table of Specification**

60 MCQs of one mark each

Time allowed 01 hour and 05 minutes

1. Musculoskeletal System (6)			
S. No	Contents	No. of Questions	
1	Fractures and Dislocations General Principles	1	
2	Fractures and Dislocations Upper Limb	1	
3	Fractures and Dislocations Lower Limb	1	
4	Other diseases of Bones, Joints and Related tissues	2	
5	Hand and foot	1	

2. Upper	2. Upper GIT (14)			
S. No	Contents	No. of Questions		
6	Oesophagus	2		
7	Stomach and Duodenum	2		
8	Liver	2		
9	Spleen	2		
10	Gall Bladder and Bile Ducts	2		
11	Pancreas	2		
12	Peritoneum, Omentum, Mesentery and Retroperitoneal Space	2		

3. Lower GIT (12)		
S. No	Contents	No. of Questions
13	Small and Large Intestine	2
14	Intestinal obstruction	2
15	Vermiform Appendix	2
16	Rectum	2
17	Anus and Anal Canal	2

18	Hernia, Umbilicus and Abdominal Wall	2

4. Uroge	4. Urogenital System (10)		
S. No	Contents	No. of Questions	
19	Kidney and Ureter	2	
20	Urinary Bladder	2	
21	Prostate and Seminal Vessels	2	
22	Urethra and Penis	2	
23	Testes and Scrotum	2	

5. Head a	5. Head and Neck(4)			
S. No	Contents	No. of Questions		
24	Thyroid Gland and Thyroglossal Tract	1		
25	Parathyroid and Adrenal Glands	1		
26	Slivery Glands	1		
27	Others	2		

6. Thora	6. Thorax (4)		
S. No	Contents	No. of Questions	
28	Chest trauma	2	
29	Others	2	

7. breast (4)					
S. No	Contents	No. of Questions			
30	Malignant Diseases	2			
31	Benign Disease	2			

8. Nervous System (2)				
S. No	Contents	No. of Questions		
32	Head, Spine and Nerve Injuries	1		
33	Others	1		

9. Heart and Great vessels (2)				
S. No	Contents	No. of Questions		
34	Heart	1		
35	Great Vessels	2		

10. Orodontal (2)					
S. No	Contents	No. of Questions			
36	Maxillofacial Injuries	1			
37	Others	1			

# **SURGERY PAPER-II (SHORT CHOICE QUESTIONS)**

# **Table of Specification**

13 SEQs of five marks each

Time allowed 02 hour

Question No	Content
1	Musculoskeletal System
2	Upper GIT
3	Lower GIT
4	Urogenital System
5	Head and Neck
6	Thorax
7	Breast
8	Nervous System
9	Heart and Great Vessels
10	Orodontal

# Course outline for 3rd Professional BDS Session 2022

# Infections

- Wound healing and factors affecting wound healing
- · Complications of wound healing, Sinus, fistula,
- · Cellulitis, Abscess
- · Spread of infection through facial planes
- Cross infection control and sterilization
- Hospital infections
- Clinical presentation, diagnosis and treatment of bacterial, viral, fungal and protozoa infections
- Intracranial complications of dental infections
- Osteomyelitis

# Salivary Glands

- Sialadenitis, Sialolithiasis, Sialosis, Sjogren's syndrome
- Mikulicz syndrome, Mucocele, Ranula
- Benign and malignant tumors of salivary gland

# Oral Cavity

- Epidemiology, classification, clinical presentation, diagnosis and treatment of benign and malignant tumors of oral cavity including epithelial, soft tissue and bone
- Tongue, lips, buccal mucosa

# Neck Pathology

- Cervical lymphadenopathy, Branchial cyst, Dermoid cyst
- Sternomastoid tumor, Cervical rib, Carotid body tumor
- Carotid aneurysm, Thymic swelling, Cystic hygroma
- Pharyngeal pouch, Spinal abscess
- Thyroid gland. Thyroglossal cyst
- Parathyroid gland

### Trauma

- · Principles of pre-hospital, emergency and definitive care of trauma victim with special emphasis on management of
- · Airway, Breathing, Circulation, CPR protocols
- Head injury, Chest trauma, Abdominal trauma
- Maxillofacial trauma
- Principle of fracture healing

# Neoplasia

- Definition
- Difference between benign and malignant tumors
- Carcinogens, Characteristics of malignancy
- Method of spread, Diagnosis
- Treatment, Radiotherapy complications
- Chemotherapy complications
- Basal cell CA, Squamous cell CA
- Melanoma, Osteosarcoma

## Hemorrhage, shock, burns

- Causes, presentation, diagnosis and management of primary and secondary and reactionary hemorrhage, nutrition,
- fluid therapy

- Vasovagal, cardiogenic, septic, anaphylactic, neurogenic hypoglycemic and hypovolemic shock
- Larynx, Maxilla, Trachea& Esophagus
  - Maxillary sinusitis
  - Carcinoma Maxillary sinus, Carcinoma Larynx, Tracheostomy, Ca esophagus
  - Achalasia Cleft lip, Cleft palate

# **LEARNING & TEACHING METHODOLOGIES FOR SURGERY AND ALLIED**

- 1) Interactive Lectures
- 2) Tutorials
- 3) Case based learning (CBL)
- 4) Essential Skills to be learned in the skills lab
- 5) Power point presentations by students
- 6) Small group discussions
- 7) Teaching of surgical procedures in Operation theatres
- 8) Clinical ward rotations
- 9) CPC's using modern audio-visual techniques, distant learning using electronic devices and current Information technology facilities
- 10) Journal Club meetings
- 11) Self-directed learning is the most vital part to solve problematic cases, go through different learning resources and discuss with peers and the faculty to clarify difficult concepts

# **LEARNING RESOURCES**

# Recommended books

- 1) Bailey and Love's Short Practice of Surgery, 28<sup>th</sup> edition published in 2022 by CRC Press Taylor & Francis Group.
- 2) General surgery (lecture Notes Series) by Harold Ellis, Roy Calne, Chris Wastson
- 3) **Schwartz's Principles of Surgery** by F. Charles Brunicardi, Dana K. Anderson, Timothy R. Billiar and David L. Dunn 11<sup>th</sup> edition 2019
- 4) Current Surgical Practice: by Norman L. Browse, Alan G. Johnson and Tom. Vol.6
- 5) Browse's Introduction to symptoms and signs of surgical disease, 6<sup>th</sup> edition published in 2021 CRC Press Taylor & Francis Group. Kevin G Burnand John Black, Steven A Corbett and William EG Thomas.
- 6) Hamilton Bailey. Demonstration of physical signs in clinical surgery
- 7) Clinical Skills for Undergraduates by Abdul Majeed Ch. and Aamer Zaman Khan
- 8) Online Journals and Reading Materials through HEC Digital Library Facility.

# Technologies to be used for Learning

- 1) Textbooks are the most important part of student learning for this subject
- 2) Hands-on activities and practical sessions to enhance the learning.
- 3) Skills lab will be used for simulated learning of the basic skills related to the gastrointestinal system
- 4) Videos from different web portals to familiarize the students with the procedures and protocols.
- 5) Computer and Internet resources are essential to gather the latest information about a specific disease.

# **ASSESSMENT METHODOLOGY**

# **Formative**

**Theory,** Single best multiple-choice questions and SEQs test monthly **Clinical ward test,** comprising of one long case (70 marks) and two short cases (100 marks) and one OSCE comprising of 11 stations (55 marks), 25 % marks contributed by ward attendance Total marks = 250

# Summative UHS examination (to be held at the end of 5<sup>th</sup> year MBBS)

<u>Theory Paper I:</u> General Surgery, Surgical Anatomy, Principles of Anaesthesia, Principles of Radiology, Principles of Radiotherapy and Chemotherapy.

<u>Theory Paper II:</u> Systematic and Operative Surgery: Musculoskeletal system, GIT, Renal system, Male and female reproductive system, Head and Neck, Thorax, Breast, Nervous system, Cardiovascular System, Orthopaedics and Traumatology

# **Summative examination details**

# Surgery including Orthopaedic & Anaesthesia (Theory)

**Paper-I** (65 single best answer multiple choice questions and 10 Short essay questions= 100 marks

**Paper II** (60 single best answer multiple choice questions and 13 Short essay questions)= 125marks

Internal evaluation= 25 marks

Total= 250 marks

# Surgery including Orthopaedic & Anaesthesia (Clinical/Practical exam)

Clinical exam comprising of one long case (70 marks) and two short cases (100 marks) = 170 marks

OSCE= 55 Marks

Internal Evaluation = 25 Marks

Total= 250 marks

# ATTENDANCE REQUIREMENT FOR SURGERY AND ALLIED

- 1) Students are expected to attend all scheduled teaching sessions and examinations
- 2) Attendance in lectures, tutorials, and wards is mandatory. Absence from these sessions will make the students ineligible to sit the final summative assessment.
- 3) A minimum of 75 % attendance in the lectures, wards is mandatory to appear in the summative UHS examination
- 4) Attendance will be recorded through a log-in/log-out biometrics system
- 5) Absence due to illness must be certified appropriately by the General Physician

# **DEPARTMENTAL TIME TABLES**

# 3<sup>RD</sup> YEAR, MBBS. 2022

Day & Time	a.m.	o 09:30	09:30 a.m. to 09:45 a.m.	09:45 a.m. to 11:45 a.m.		11:45 a.m. to 12:00 noon	12:0 noo to 12:1 p.n	on 12:15 p.m.  to 01:00  p.m.		01:00 p.m. to 02:30 p.m.	
Monday	Gra Tuto			Clinical Ward							
Tuesday	08:00 a.m. to 08:45 a.m.	08:45 a.m. to 9:30 a.m.	TRAVEL TO GTTH	Clinical Ward / Skill Lab for onebatch		TRAVEL TO LMDC	BREAK				
Wednesday				1	Clinical Ward						
Thursday				30 a.m. to :15 a.m.	to to		11:: a.n to 12:0	n. o 00	12:00 noon to 12:45 p.m.	12:45 p.m. to 01:00 p.m.	
					BREAK					BREAK	
Friday	08:00 a.m. to 09:15 a.m.			09:15 a.m. to 10:00 a.m.		10:00 a to 10: a.m	45	10	:45 a.m. to	11:30 a.m.	11:30 a.m. to 01:00 p.m.
				Surgery  Lecture Theatre No. 3							

# 4<sup>TH</sup> YEAR, MBBS. 2022

DAYS	08.00	08.45	09.45	10.30 AM	11.15	12.00 PM	12.15 PM	2.15 PM
	AM TO	AM	AM	TO	AM TO	TO	TO	TO
	08.45	ТО	ТО	11.15 AM	12.00	12.15 PM	02.15 PM	2.30 PM
	AM	09.45	10.30		PM			
		AM	AM					
MONDAY		CPC					Hospital Work(unit1,2)	
TUESDAY	08.00 AM TO	08.45 AM TO	9.30 AM TO	11.00 AM TO	11.15 AM TO	Travel	12.15 PM TO	Travel
	08.45 AM	9.30 AM	11.00 AM	11.15 AM	12.00 PM	time to	02.15 PM	time to
					Surgery- II Lecture	time to	Hospital	time to
					Theater	GTTH	Work(unit1,2)	LMDC
				BREAK	No. 2			
WEDNESDAY							Hospital	
							Work/Skills lab (unit1,2)	
THURSDAY							Hospital	
							Work(unit1,2)	
FRIDAY		I TO 9.30	9.30 AM	10.15 AM	11.00 AM	11.15 AM	12.00	
	A	M	TO	TO	TO	TO	T(	
			10.15 AM	11.00 AM	11.15 AM	12.00 PM	12.45	PM
				Surgery-				
				Ĭ	BREAK			
				Lecture				
				Theater				
				No. 2				

# **5**<sup>TH</sup> **YEAR, MBBS. 2022**

Day	08:00 a.m. to 08:45 a.m.	08:45 a.m. to 09:45 a.m.	09:45 a.m. to 10:30 a.m.	10:30 a.m. to 10:45 a.m.	10:45 a.m. to 02:15 p.m.	02:15 p.m. to	02:30 p.m.
Monday		CPC Auditorium		Travel to GTTH	Hospital Work/ Skills lab(unit1,2)		
Tuesday	Surgery II Auditorium	08:45 a.m. to 09:30 a.m.	09:30 a.m. to 10:15 a.m.	10:15 a.m. to 10:30 a.m.	10:30 a.m. to 02:15 p.m. Hospital	Trav	el
	Surgery I			Travel	Work(unit1,2)	to	
Wednesday	Auditorium			То	Hospital Work(unit1,2)	LMD	c
Thursday	Surgery II / Radiology Auditorium			GTTH	Hospital Work(unit1,2)		
Friday	Surgery I/Anesthesia Auditorium			10:15 a.m. to 11:00 a.m.	11:00 a.m. to 11:15 a.m.	11:15 a.m. to 12:45 p.m.	12:45 p.m. to 01:00 p.m.
					Travel to GTTH	Hospital Work/ (unit1,2)	Travel to LMDC

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			TIME TABLE FOURTH PROFESSIONAL DPT							
ARE	Present of the			Time & Sub	.f 29-03-20	122				
Day	08:15 am to 09:00 am	9:00 am to 10:00 am	10:00 am to 10:45 am	10:45 am to 11:30 am	11:30 am to 12:00 pm	12:00 pm to 12:45 pm	12.45 pm to 01:30 pm	01:30 pm to 02:30 pm		
Monday	Surgery(ortho) Lec Th-3	PT Treatment-IB* Lec Th-3	Surgery(General) Lec Th-3	11:00 am-12:00 pm Medicine GTTH Auditorium		CI	inical Practice at GTT	Н		
Tuesday	Surgery(ortho) Lec Th-3	PT Treatment-IA* Lec Th-3	Surgery(General) Lec Th-3	11:00 am-12:00 pm Medicine GTTH Auditorium	B R	Clinical Practice at GTTH				
ednesday	Surgery(ortho) Lec Th-3	PT Treatment-IA* Lec Th-3	PT Treatment-IB* Lec Th-3	11:00 am-12:00 pm Medicine GTTH Auditorium	E	Clinical Practice at GTTH				
hursday	Biostat Lec T		Clinical Skill Lab -IA*  Clinical Skill Lab -IB*		A K	EBP I.T. Lab/lec Lec Th 3	PT Treatment-IB* Lec Th-3	PT Treatment-IA* Lec Th-3		
Friday	EBP I.T. Lab/lec Th-3	PT Treatment-IA* Lec Th-3					12:00 - 01:00 pm Radiology Lec Th-3			
Musculosk Neurologic							A Security S	rapy.		

# THIRD YEAR MBBS ACADEMIC PLANNER GENERAL SURGERY SESSION 2022-2023

# **FACILITATORS:**

Prof. Hasnat Ahmad Butt

Dr. Sidra Shoaib

Subject:	General Surgery
Session	2022-2023
Total Hours	28 hours
Total no. of lectures	37
Total duration of each lecture	45 minutes
Course duration:	5 <sup>th</sup> Nov.2018 to 30 <sup>th</sup> August 2019

LECT. NO.	PROPOSED TIME LINE	CHAPTER	TOPICS
1	Week 1	Introduction to Surgery	Brief history of surgery
2	Week 2	Metabolic Response to Trauma	<ul> <li>Classical concepts of homeostasis</li> <li>Mediators of the metabolic response to injury</li> <li>Physiological and biochemical changes that occur during injury and recovery</li> </ul>
3	Week 3	Metabolic Response to Trauma	<ul> <li>Changes in body composition that accompany surgical injury</li> <li>Avoidable factors that compound the metabolic response to injury</li> <li>Concepts behind optimal perioperative care</li> </ul>
4	Week 4	Shock	<ul> <li>The pathophysiology of shock and ischaemia— reperfusion injury</li> <li>The different patterns of shock and the principles and priorities of resuscitation</li> <li>Appropriate monitoring and end points of resuscitation</li> </ul>
5	Week 5	Haemorrhage & Blood transfusion	<ul> <li>Use of blood and blood products, the benefits and risks of blood transfusion</li> <li>Types of haemorrhage</li> </ul>

		10.7	
6	Week 6	Wound & Tissue Repair	<ul> <li>Normal healing and how it can be adversely affected</li> </ul>
7	Week 7	Wound & Tissue Repair	<ul> <li>How to manage wounds of different types, of different structures and at different sites</li> <li>Aspects of disordered healing that lead to chronic wounds</li> </ul>
8	Week 8	Wound Infection	<ul> <li>The characteristics of the common surgical pathogens and their sensitivities</li> <li>The factors that determine whether a wound will become infected</li> <li>The classification of sources of infection and their severity</li> <li>The clinical presentation of surgical infections</li> </ul>
9	Week 9	Antibiotic Prophylaxis	<ul> <li>The indications for and choice of prophylactic antibiotics</li> <li>The spectrum of commonly used antibiotics in surgery and the principles of therapy</li> </ul>
10	Week 10	SURGICAL SITE INFECTIONS	<ul> <li>The definitions of infection, particularly at surgical sites</li> <li>basic precautions to avoid surgically relevant hospital acquired infections</li> </ul>
11	Week 11	SURGICAL SITE INFECTIONS	Management of surgical site infections
12	Week 12	Surgical ethics	
13	Week 13	Principles of Oncology	<ul> <li>The biological nature of cancer</li> <li>The principles of cancer aetiology and the major known causative factors</li> <li>The principles of cancer prevention and early detection</li> </ul>
14	Week 14	Principles of Oncology	<ul> <li>The multidisciplinary management of cancer</li> <li>The principles underlying non-surgical treatments for cancer</li> <li>The principles underlying non-surgical treatments for cancer</li> <li>The principles of palliative care</li> </ul>
15	Week 15	Preoperative care	<ul> <li>to organize the preoperative care and the operating list</li> <li>preoperative preparation for surgery:</li> <li>Surgical, medical and anaesthetic aspects of assessment</li> <li>optimization of the patient's condition identification and optimization of the patient at higher risk •</li> <li>Importance of critical care in management</li> <li>How to take consent</li> </ul>

			How to organise an operating list
16	Week 16	Fluid electrolytes	<ul> <li>The causes and consequences of malnutrition in the surgical patient</li> <li>Fluid and electrolyte requirements in the pre- and postoperative patient</li> </ul>
17	Week 17	nutrition	<ul> <li>The nutritional requirements of surgical patients and the nutritional consequences of intestinal resection</li> <li>The different methods of providing nutritional support and their complications</li> </ul>
18	Week 18	Acid base balance	<ul> <li>Basic physiology</li> <li>Acid base disorders</li> <li>Management of acid base disorders</li> </ul>
19	Week 19	Post-operative care	<ul> <li>Immediate postoperative care</li> <li>Common postoperative problems in the immediate postoperative period</li> <li>Prediction and prevention of common postoperative complications</li> <li>Recognition and treatment of common postoperative complications</li> <li>The principles of enhanced recovery</li> <li>A system for discharging patients</li> </ul>
20	Week 20	General Trauma	<ul> <li>timeline concept in trauma management</li> <li>assessment of a trauma problem</li> <li>how to respond to a trauma problem</li> </ul>
21	Week 21	General Trauma	Early total care and damage control surgical strategies
22	Week 22	Disaster Management	<ul> <li>The common features of various disasters</li> <li>The principles behind the organisation of the relief effort and of triage in treatment and evacuation</li> <li>The role and limitations of field hospitals in disaster</li> <li>The features of conditions peculiar to disaster situations</li> </ul>
23	Week 23	Cysts, Lumps, Sinus & Ulcer	<ul><li>Lumps and bumps</li><li>Interpretation</li><li>diagnosis</li></ul>
24	Week 24	Common leg Ulcers	<ul> <li>To identification of Causes and risk factors of leg ulcers</li> <li>Diagnosis and management</li> </ul>
25	Week 25	Burns	<ul> <li>different types of burns</li> <li>The pathophysiology of burns</li> <li>assessment of The area and depth of burns</li> <li>immediate management of burn patient</li> <li>Methods for calculating the rate and quantity of fluids to be given</li> <li>Techniques for treating burns and the patient</li> </ul>
26	Week 26	Burns	The pathophysiology of electrical and chemical burns     Techniques for treating burns and the patient
27	Week 27	SCARS	The variety of scars and their treatment     Hypertrophic Scar, Keloids

			How to differentiate between acute and chronic wounds
28	Week 28	Different Types of	The management of abscesses
		Abscesses	The importance of aseptic and antiseptic techniques
			Delayed primary or secondary closure in contaminated
			wounds
29	Week 29	Tuberculosis	Introduction
			Types of Tuberculosis
			Diagnosis and general management
			Tuberculous cervical lymphadenitis
30	Week 30	Typhoid	Introduction
			<ul> <li>Pathology</li> </ul>
			Diagnosis
			Treatment
31	Week 31		Types of gangrene
		Gangrene Types & Diagnosis	Pathophysiology of gangrene
		Diagnosis	Diagnosis and management of gangrene
			Specific varieties of gangrene
32	Week 32		Different types of amputations
		Amputations	Indications of amputations
			Complications of amputations
33	Week 33		The nature and associated features of occlusive peripheral
			arterial disease
			The investigation and treatment options for occlusive
		Arterial Disorders	peripheral arterial disease
		7.1. 10.1.0. 2.10. 0.10	The principles of management of the severely ischaemic
			limb
34	Week 34		Signs and symptoms of acute limb ischemia
			Management options for Acute limb ischemia
		Acute Limb Ischemia	Follow up Signs and symptoms of chronic limb ischemia
		Chronic Limb Ischemia	Management options for chronic limb ischemia
			• Follow up
35	Week 35		A large and a start basis of all a surfix
35	week 35		Immunological basis of allograft
		Transplantation	<ul><li>rejection</li><li>Principles of immunosuppressive therapy</li></ul>
		Transplantation	
			Side effects of non-specific     immunosuppression
			immunosuppression     Major issues concerning organ denotion
			Major issues concerning organ donation     Main indications for organ transplantation
			<ul> <li>Main indications for organ transplantation</li> <li>Surgical principles of organ implantation</li> </ul>
			Surgicul principles of organ implantation
		$\exists$	The common surgical infections and infestations that
		Surgery in the tropics:	occur in the tropics
		a.) Intestinal worm	The emergency presentations of the various conditions,
		infestations and	Diagnosis and treatment of these conditions, particularly
		its complications	as emergencies.
		b.) Amoebic liver	ideal management involves a multidisciplinary approach
		Abscess c.) Hydatid Disease	between the surgeon, physician, radiologist, pathologist
		,,,	and microbiologist

# FOURTH YEAR MBBS ACADEMIC PLANNER GENERAL SURGERY SESSION 2022-2023

# **FACILITATORS:**

Prof. Abdul Majeed Chaudhry

Prof. Hasnat Ahmad Butt Prof Saquib Zahoor

Prof Zahid Mahmood

Prof. Imran Hussain Andrabi

Dr. Shaukat Rabbani

Dr. Wasif Majeed Chaudhry

Dr. Sidra Shoaib Qureshi

Dr. Maryam Jamil

Subject:	General Surgery
Session	2018-2019
Total Hours	194
Total no. of lectures	110
Clinico-pathological conference	33 lectures, 33 hours
Lecture by S1 and S2	32 S1, 33 S2
Course duration:	22 <sup>nd</sup> November 2018 to 30 <sup>th</sup> August 2019

**SYLLABUS: Surgical unit-1** 

TOTAL	Proposed	Topic	Learning Objectives
NO.OF	timeline		
Lect. No.			
3	Week 1-3	Thoracic Trauma	<ul> <li>Introduction</li> <li>Investigations for thoracic trauma</li> <li>Immediate life-threatening injuries</li> <li>Potentially life-threatening injuries</li> <li>Treatment of Thoracic injuries</li> <li>Emergency thoracotomy</li> <li>Elective thoracotomy</li> </ul>
3	Week 4-6	Empyema Thoracis Lung abscess	<ul> <li>Etiology</li> <li>Pathophysiology</li> <li>Classification</li> <li>Investigation</li> <li>Treatment</li> </ul>
4	Week 7-10	Thyroid and Parathyroid glands	<ul> <li>Surgical anatomy</li> <li>Physiology</li> <li>Investigations</li> <li>Diseases</li> <li>Diagnosis</li> <li>Treatment</li> </ul>
4	Week 11- 14	Breast	<ul> <li>Surgical anatomy</li> <li>Physiology</li> <li>Investigations</li> <li>Benign breast diseases</li> <li>Malignant breast diseases</li> <li>Treatment of benign and malignant diseases</li> </ul>

eek 15 - 18	Esophagus & Stomach	<ul><li>Surgical anatomy</li><li>Physiology</li><li>Investigations</li></ul>
		<ul><li>Benign diseases</li><li>Malignant diseases</li><li>Treatment</li></ul>
eek 19-21	Liver	<ul> <li>The anatomy of the liver</li> <li>The signs of acute and chronic liver disease</li> <li>The investigation of liver disease</li> <li>The management of liver trauma</li> <li>The management of liver infections</li> <li>The management of colorectal liver metastases</li> <li>The management of hepatocellular carcinoma</li> </ul>
Week 22	Nutrition, Enteral and Parenteral	<ul> <li>The nutritional requirements of surgical patients and the nutritional consequences of intestinal resection</li> <li>The different methods of providing nutritional support and their complications</li> </ul>
eek 23-25	Introduction to Laparoscopic Surgery	<ul> <li>The principles of laparoscopic and robotic surgery.</li> <li>The safety issues and indications for laparoscopic and robotic surgery</li> <li>The advantages and disadvantages of such surgery robotic surgery</li> <li>The principles of postoperative care</li> </ul>
reek 26-29	Testis and scrotum	<ul> <li>Embryology, anatomy, physiology, functions of Testis</li> <li>Incompletely descended testis</li> <li>Testicular injury</li> <li>Testicular torsion</li> <li>Varicocoele</li> <li>Spermatocoele</li> <li>Hydrocoele</li> <li>Epididymal cysts</li> <li>Epididymoorchitis</li> <li>Testicular tumours and their management</li> <li>Fournier's gangrene of the scrotum</li> </ul>
/eek 30-34	Cleft Lip and Palate, Oral Cavity & Oropharyngeal Cancer	The aetiology and classification of developmental abnormalities of the face, mouth and jaws  Perinatal and early childhood management  The principles of reconstruction of cleft lip and palate  The key features of perioperative care  The management of complications
/*	eek 23-25 eek 26-29	Nutrition, Enteral and Parenteral  eek 23-25  Introduction to Laparoscopic Surgery  eek 26-29  Testis and scrotum  Cleft Lip and Palate, Oral Cavity &

			associated with cleft lip and palate
3	Week 35-37		
		Faciomaxillary Trauma	

## SYLLABUS: Surgical unit-2

TOTAL NO.OF Lect.	PROPOSED TIME LINE	UNIT	Learning Objectives
3	Week 1-3	Arterial Disorders	To understand  The nature and associated features of occlusive peripheral arterial disease  The investigation and treatment options for occlusive peripheral arterial disease  The principles of management of the severely ischaemic limb  The nature and presentation of peripheral aneurysmal disease, particularly of the abdominal aorta  The investigation and treatment options for peripheral aneurysmal disease  The arteritides and vasospastic disorders
3	Week 4-6	Venous Disorders	Venous anatomy and the physiology of venous return     The pathophysiology of venous hypertension     The clinical significance and management of superficial venous reflux     The management of venous ulceration     Venous thromboembolism
3	Week 7-9	Lung Cancer & Thymoma	To understand  The anatomy of the lung Primary lung cancer Pathological types Histological classification of lung cancer Clinical features Diagnosis and staging Non-invasive investigations Treatment of lung cancer Invasive investigations Surgical diagnosis and staging Surgical approach to lung cancer resection Complications of lung resection Postoperative care Lung metastases Benign lung tumours Thymoma

3	Week 10 – 12	Adrenal Gland	To understand
			<ul> <li>The anatomy and function of the adrenal and other abdominal endocrine glands</li> <li>Disorders of the adrenal cortex</li> <li>Primary hyperaldosteronism – conn's syndrome</li> <li>Cushing's syndrome</li> <li>Disorders of the adrenal medulla and neural crest-derived tissue</li> <li>Pheochromocytoma</li> <li>The diagnosis and management of these endocrine disorders</li> <li>The role of surgery in the management of adrenal disorders</li> <li>The role of surgery in the management of other endocrine disorders</li> </ul>
2	Week 13 – 14	Carcinoma Breast	To understand
1	Week 15	Fluid & Electrolytes	Fluid and electrolyte requirements in the pre- and
1	Week 16	Acid Base Balance	postoperative patient  To understand  Basic physiology Acid base disorders  Management of said base disorders
3	Week 17 – 19	Small & Large Intestine & Intestinal Obstruction	<ul> <li>Management of acid base disorders</li> <li>To understand:         <ul> <li>The pathophysiology of dynamic intestinal obstruction</li> <li>The pathophysiology of adynamic intestinal obstruction</li> <li>The cardinal features on history and examination</li> <li>The causes of small and large bowel obstruction</li> <li>Investigations for diagnosis of intestinal obstruction</li> <li>Conservative management for intestinal obstruction</li> <li>The indications for surgery</li> <li>Surgical management options in bowel obstruction</li> </ul> </li> </ul>
3	Week 20 – 22	Peritoneum & Retroperitonium	To Understand  The causes and complications of localized and generalised peritonitis  The clinical features of peritonitis and intraperitoneal abscess  The principles of surgical management in patients with peritonitis and intraperitoneal abscess  The causes and pathophysiology of ascites  The pathophysiology and complications of adhesion formation  The spectrum of mesenteric and retroperitoneal

		<u> </u>	conditions
3	Week 23 – 25	Plastic and	To Understand
3	WEEK 23 - 23	Reconstruction	The spectrum of plastic surgical techniques used to
		Surgery	restore bodily form and function
		Juigery	The relevant anatomy and physiology of tissues used in
			, , , , ,
			reconstruction
			The various skin grafts and how to use them
			appropriately
			The principles and use of flaps
			How to use plastic surgery to manage difficult and
			complex tissue loss
2	Week 26 – 27	Appendix	To understand:
_			The etiology and surgical anatomy of acute appendicitis
			The clinical signs and differential diagnoses of
			appendicitis
			The investigation of suspected appendicitis
			Evolving concepts in management of acute appendicitis
			Basic surgical techniques, both open and laparoscopic
			The management of postoperative problems     Typeurs of the appendix and psychology problems
3	Week 28 – 30	Liver Absence & Cyst	Tumours of the appendix and pseudomyxoma peritonei  To Understand
3	VVEEK 20 - 3U	Liver Abscess & Cyst / Hydatid Disease	Spectrum of simple cystic disease
		/ Tryuatiu Disease	Liver infections
			Ascending cholangitis
			The Pathology, classification, Clinical features &
			investigations of liver abscess
			The management options for liver abscess  The live livest in a few appears.
			The indications for surgery
			Surgical management options for liver abscess
			The Pathology, classification, Clinical features &
			investigations for hydatid disease
			The management options for hydatid disease
			The indications for surgery for hydatid disease
4	Week 31 – 34		Surgical management options for hydatid disease  To understand:
4	Week 31 – 34		The features of raised intracranial pressure,
			hydrocephalus and infection typical to acute
			neurosurgical presentations.
			The aneurysmal subarachnoid haemorrhage and other
			causes of intracranial haemorrhage.
			The common brain tumours, their presentation,
			investigation and treatment.
		Neurosurgery	The common developmental and other pathologies
			encountered in paediatric neurosurgical practice.
			The indications and approaches available for the
			management of epilepsy, pain syndromes and
			movement disorders.
			The key practical and ethical issues relating to consent
			and risks
			Brainstem death.
3	Week 35 – 37	Plastic and	To understand:
		reconstructive	The spectrum of plastic surgical techniques used to
		surgery	restore bodily form and function
		-2.01	The relevant anatomy and physiology of tissues used in
			reconstruction
			The various skin grafts and how to use them
			appropriately
			The principles and use of flaps

## FINAL YEAR MBBS ACADEMIC PLANNER GENERAL SURGERY SESSION 2022-2023

#### **FACILITATORS:**

Dr. Sidra Shoaib Qureshi

Prof. Abdul Majeed Chaudhry Prof. Hasnat Ahmad Butt Prof Saquib Zahoor Prof Zahid Mahmood Prof. Imran Hussain Andrabi Dr. Shaukat Rabbani Dr. Wasif Majeed Chaudhry

Subject:	General Surgery
Session	2022-2023
Total Hours	114
Total no. of lectures	152 (76, Surgical Unit-1 ) ( 76, Lecture S2)
Duration of each Lecture	45 min.
Course duration:	10th Dec .2018 to 15th September 2019

#### Surgical Unit-1

TOTAL	PROPOSED TIME	Topic	Sub topics
NO.OF	LINE		
Lect. No.			
8 (1-8)	WEEK 1-4	Hernias, Umbilicus & Abdominal wall	To understand  Basic anatomy and function related to pathology  Pathophysiology of hernia formation  Common principles in abdominal hernia  Clinical history and diagnosis in hernia cases  Examination for hernia  Investigations for hernia  Management principles  Surgical approaches to hernia  Inguinal hernia  Femoral hernia  Ventral hernias  Parastomal hernia  Traumatic hernias  Abdominal compartment syndrome
8 (9 -16)	Week 5 to 8	The peritoneum, omentum, mesentery & Retroperitonium	To understand  Anatomy and physiology of the peritoneum, omentum, mesentery & Retroperitonium  Peritonitis Investigations Management of peritonitis Prognosis and complications Special forms of peritonitis Intraperitoneal abscess Ascites Tumours of the peritoneum

	1		
8 (17 -24)	Week 9 to 12	The Small Intestines	Adhesions     Torsion of the omentum     Mesenteric injury     Mesenteric ischaemia     Mesenteric adenitis     Mesenteric cysts     Retroperitoneal fibrosis     Retroperitoneal (psoas) abscess     Retroperitoneal tumours  Test  To understand     Anatomy of the small intestine     Physiology of the small intestine     Inflammatory bowel disease     Tuberculosis of the intestine     Tumours of the small intestine     Intestinal diverticulae     Mesenteric ischaemia     Stomas and their complications     Enterocutaneous fistula
			Short bowel syndrome Test
6	Week 13 to 15	The Large intestine	To understand
(25 -30)	Week 15 to 15		<ul> <li>Anatomy of the large intestine</li> <li>Physiology of the large intestine</li> <li>Tumours of the large intestine</li> <li>Ulcerative colitis</li> <li>Diverticular disease of the colon</li> <li>Angiodysplasia</li> <li>Ischaemic colitis</li> <li>Irritable bowel syndrome</li> </ul> Test
8	Week 16-19	Intestinal	To understand
(31 -38)	Week 20, 24	Obstruction	<ul> <li>Classification</li> <li>Pathophysiology</li> <li>Special types of mechanical intestinal obstruction</li> <li>Clinical features of intestinal obstruction</li> <li>Clinical features of strangulation</li> <li>Investigations for intestinal obstruction</li> <li>Treatment of acute intestinal obstruction</li> <li>Paralytic ileus</li> <li>Pseudoobstruction</li> </ul> Test
10	Week 20- 24	Stomach and	To understand
(39 -48)		duodenum	<ul> <li>Anatomy and physiology of the stomach and duodenum</li> <li>Gastric mucus and the gastric mucosal barrier</li> <li>Helicobacter pylori infection</li> <li>Gastritis</li> <li>Peptic ulcer (Duodenal &amp; Gastric)</li> <li>Haematemesis and melaena</li> <li>Stress ulceration</li> <li>Gastric erosions</li> <li>Mallory-Weiss tear</li> <li>Gastric outlet obstruction</li> <li>Acute gastric dilatation</li> <li>Trichobezoar and phytobezoar</li> <li>Gastric volvulus</li> </ul>

			,
6 (49 -54)	Week 25 -27	The Rectum	Gastric cancer Gastrointestinal stromal tumours Gastric Lymphomas Benign duodenal tumours Neuroendocrine tumours Zollinger—Ellison syndrome Duodenal adenocarcinoma Duodenal obstruction  Test  To understand Surgical anatomy clinical features of rectal disease Injuries of the rectum and their management Rectal prolapse and its management Rectal evacuation disorder Rectal intussusception Solitary rectal ulcer syndrome (srus) Proctitis and its types and management Rectal polyps Rectal cancer and its management Rectal polyps Rectal cancer and its management
2	Week 28	Anal Canal	To understand
2 (57-58)	Week 29	The spleen	<ul> <li>Surgical anatomy of anal canal</li> <li>Digital examination with the index finger</li> <li>Proctoscopy and its indications</li> <li>Sigmoidoscopy and its indications</li> <li>Congenital anomalies of anal canal</li> <li>Pilonidal sinus disease and its management</li> <li>Anal fissure and its management</li> <li>Haemorhoids and their management</li> <li>Perianal fistula and its management</li> <li>Malignant tumours of the anal canal and its management</li> <li>Test</li> </ul> To Understand the <ul> <li>Embryology, anatomy, physiology, functions of spleen</li> <li>Investigations of spleen</li> <li>Congenital anomalies of spleen</li> <li>Splenic artery aneurysm</li> <li>Splenic infarction</li> <li>Splenic rupture</li> <li>Splenic abscess</li> </ul>
2 (59 -60)	Week 30	Parathyroid glands	<ul> <li>Splenomegaly and hypersplenism</li> <li>Causes of splenic enlargement</li> <li>Haemolytic anaemias</li> <li>Neoplasms of spleen</li> <li>Spleenectomy and its steps</li> <li>Tests</li> <li>To understand:         <ul> <li>Embryology, anatomy, physiology, functions of parathyroid glands</li> <li>Primary hyperparathyroidism</li> <li>Secondary hyperparathyroidism</li> <li>Tertiary hyperparathyroidism</li> <li>Investigations for parathyroid gland</li> <li>Hypoparathyroidism</li> <li>Men syndrome</li> </ul> </li> </ul>
			Parathyroid carcinoma and its management
			•
1	Week 31	Adrenal gland	To understand:

(61)			<ul> <li>Embryology, anatomy, physiology, functions of adrenal glands</li> <li>Disorders of the adrenal cortex (Incidentaloma, Primary hyperaldosteronism – Conn's syndrome, Cushing's syndrome, Adrenocortical carcinoma, Congenital adrenal hyperplasia, Adrenal insufficiency)</li> <li>Disorders of the adrenal medulla and neural crestderived tissue (Phaeochromocytoma and paraganglioma, Neuroblastoma, Ganglioneuroma)</li> <li>Surgery of the adrenal glands</li> </ul> Test
2 (62-63)	Week 32	Testis and scrotum	To Understand the  Embryology, anatomy, physiology, functions of Testis  Incompletely descended testis  Testicular injury  Testicular torsion  Varicocoele  Spermatocoele  Hydrocoele  Epididymal cysts  Epididymoorchitis  Testicular tumours and their management  Fournier's gangrene of the scrotum
2 (64-65)	Week 33	The thorax and chest trauma	To understand:  Introduction Investigations for thoracic trauma Immediate life-threatening injuries Potentially life-threatening injuries Treatment of Thoracic injuries Emergency thoracotomy Elective thoracotomy Etiology, Pathophysiology, Classification, investigations and treatment of Empyema thoracis
3 (66 -68)	Week 34	Neurosurgery	To understand:  Primary and secondary brain injury Skull fractures Extradural haematoma Subdural haematoma Subarachanoid haemorrhage Brain tumours Hydrocephalus Brain infections Neck and spine
4 (69-72)	Week 35-36	Cardiac surgery	To Understand the steps of  Introduction to cardiac surgery  Congenital heart diseases

**SYLLABUS: Surgical unit-2** 

TOTAL	PROPOSED TIME	UNIT	SUB TOPIC
NO.OF	LINE		
Lect. No.			
8	WEEK 1-4	Breast	To understand
(1 -8)			Surgical anatomy of breast
			Presentations of breast lump
			Investigations of breast lump
			Triple assessment of breast lump
			Diseases of nipple and their management
			Benign breast disease

	1		
8 (9 -16)	Week 5 to 8	The Thyroid gland Thyroglossal Tract	<ul> <li>Acute and subacute inflammations of the breast</li> <li>Carcinoma of the breast</li> <li>Signs and symptoms</li> <li>Staging</li> <li>prognosis</li> <li>Management options for breast cancer</li> <li>Breast reconstructions</li> <li>The Male breast</li> <li>Test</li> <li>To understand</li> <li>Embryology &amp; surgical anatomy</li> <li>Physiology of thyroid functions</li> </ul>
			<ul> <li>Thyroid imaging</li> <li>Thyroid enlargement</li> <li>Thyroid procedures</li> <li>Hyperthyroidism</li> <li>Hypothyroidism</li> <li>Neoplasms of the thyroid</li> <li>Thyroiditis</li> </ul> Test
8 (17 -24)	Week 9 to 12	The Liver	To understand  The anatomy of the liver  The signs of acute and chronic liver disease  The investigation of liver disease  The management of liver trauma The management of liver infections The management of colorectal liver metastases  The management of hepatocellular carcinoma  Test
6 (25 -30)	Week 13 to 15	The Gall Bladder and Bile Ducts	To understand  Anatomy and physiology of the gallbladder and bile ducts  Pathophysiology and management of gallstones  Unusual disorders of the biliary tree  Management of bile duct injuries Malignant disease of the gallbladder and bile ducts  Test
8 (31 -38)	Week 16-19	The Pancreas	To understand  The anatomy and physiology of the pancreas Investigations of the pancreas Congenital abnormalities of the pancreas Assessment and management of acute pancreatitis Assessment and management of chronic pancreatitis The management of liver trauma Diagnosis and treatment of pancreatic cancer Test
10 (39 -48)	Week 20- 24	The esophagus	To understand  The anatomy and physiology of the esophagus and their relationship to diseases Symptoms of esophageal diseases Investigations for oesophageal disorders Oesophageal motility disorders Premalignant conditions of esophagus Oesophageal perforations and their treatment Paraoesophageal hernias The clinical features, investigations and treatment of benign diseases Test

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6 (49 -54)	Week 25 -27	Salivary Glands	To understand  The surgical anatomy of the salivary glands  The presentation, pathology and investigation of salivary gland disease  The medical and surgical treatment of stones and infections of salivary glands  The surgical treatment of malignant conditions of salivary glands  Parotidectomy  Test
2	Week 28	Oral and	To understand
(55 -56)		Oropharyngeal cancer	<ul> <li>The relationship between oral (pre)malignancy and the use of alcohol and tobacco</li> <li>The cardinal features of premalignant and malignant lesions of the oral cavity</li> <li>The investigation and treatment of oropharyngeal cancers</li> <li>To understand</li> <li>The assessment of an ulcer on the tongue</li> <li>The investigations for chronic tongue ulcers</li> <li>The Principles of Surgery for Carcinoma Tongue</li> </ul>
2	Week 29	Mandible &	To Understand the
(57-58)	Week 29	Maxillofacial injuries	<ul> <li>To be able to identify and understand the significance of potentially life-threatening injuries to the face, head and neck</li> <li>To have: A systematic methodology for examining facial injuries</li> <li>To know the classification of facial fractures</li> <li>To understand the diagnosis and management of fractures of the middle third of the facial skeleton and the mandible</li> <li>The principles of the diagnosis and management of facial soft tissue injuries</li> <li>To appreciate the management of dental injuries</li> </ul>
2	Week 30	Cleft lip, cleft palate	To understand:
(59 -60)		& Oro dental surgery	<ul> <li>The aetiology and classification of developmental abnormalities of the face, mouth and jaws</li> <li>Perinatal and early childhood management</li> <li>The principles of reconstruction of cleft lip and palate</li> <li>The key features of perioperative care</li> <li>The management of complications associated with cleft lip and palate</li> </ul>
1	Week 31	Pharynx, larynx and	To understand:
(61)		neck	<ul> <li>The relevant anatomy, physiology, disease processes and investigations of the pharyngolarynx and neck</li> <li>The diagnosis and emergency treatment of airway obstruction</li> <li>The aetiology, natural history, management and prevention of squamous cell carcinoma of the upper aerodigestive tract</li> </ul>
2	Week 32	Neck Dissections	To Understand the
(62-63)			<ul> <li>Indication for neck dissections</li> <li>Steps of different types of radical and selective neck dissections</li> <li>Management of complications of neck dissections</li> </ul>
2 (64-65)	Week 33	Principles of laparoscopic surgery	To understand:  • The principles of laparoscopic and robotic surgery.  • The safety issues and indications for laparoscopic and robotic surgery  • The advantages and disadvantages of such surgery robotic surgery  • The principles of postoperative care
3 (66 -68)	Week 34	Plastic and reconstructive surgery	To understand:  • The spectrum of plastic surgical techniques used to restore bodily form and function • The relevant anatomy and physiology of tissues used in reconstruction • The various skin grafts and how to use them appropriately • The principles and use of flaps • How to use plastic surgery to manage difficult and complex tissue loss
4 (69-72)	Week 35-36	Operative Surgery	To Understand the steps of  Thyroid Surgery Gall bladder Surgery Hernia Appendicitis

## **Topics for clinical Exam for General Surgery**

Short cases for General surgery clinical exam
Examination of a lump/ swelling ( Lipoma etc)
Examination of a parotid swelling, submandibular swelling
Examination of Branchial cyst Branchial fistula, cystic hygroma
Examination of Ulcer
Examination of neck/ thyroid
Examination of oral cavity
Examination of inguinal hernia
Examination of Femoral hernia
Examination of umbilical hernia
Examination of Paraumbilical hernia
Examination of Epigastric hernia
Examination of incisional hernia
Examination of Breast
Examination of varicose veins
Examination of ischeamic limb
Examination of basal cell carcinoma, squamous cell carcinoma, Melanoma
Examination of hydrocoele
Examination of varicocele
Examination of Diabetic foot

## Final year MBBS Academic Planner Orthopaedic Surgery Session 2018-2019

Subject	Orthopedic Surgery
Session	2019-2020
Total hours	26
Total number of lectures	34
Total duration of each lecture	45min.
Course duration	10 <sup>th</sup> December 2018 -15 <sup>th</sup>
	September 2019

#### **Facilitators:**

Prof. Dr. Amir Aziz

Prof. Dr. Shahzad Javed

Prof. Dr. Naeem Ahmed

#### **SYLLABUS**

Proposed time line	Topic	Sub- topic
		Pathophysiology of trauma and shock
Week 13	Applied basic orthopaedics	Mechanical properties of bone and soft tissue
		Principles of bone and soft tissue healing
	Congenital and developmental	Congenital talipes equino varus and valgus (CTEV),FLAT FOOT,PERTHES DISEASE,SCFE
WEEK 4-5	diseases	Bone dysplasias i.e. pseoudarthrosis,achondroplasia
		Acute osteomyelitis & septic arthritis
		Chronic Osteomtyelitis
WEEK 6-8	Bone & joint infection	Tuberculous arthritis / caries spine
WEEK 9-10	Metabolic bone disease	Richets, osteomalacia
		Hyperparathyroidism
		Muscular dystrothies i.e. duchenne becker
WEEK 11-13	Neuro muscular disorders	Cerebral palsy
		Post-polio paralysis PPP
		Benign: Bone Cysts, exostosis
WEEK 14-16	Bone Tumors	Fibroma, lipoma, osteoma, giant cell tumor
		Malignant: Osteosarcoma, Ewings sarcoma
WEEK 17-19	Neck pain, low back pain	Disc Disease
		Scoliosis
		Cervical spondylosis
WEEK 20-24	Arthritis	Rheumatoid Arthritis Osteoarthritis
		Ankylosing spondylitis
		Gout
		Frozen shoulder
		Tennis elbow, plantar fasciitis, trigger finger, de quervains disease
	I.	Termis elson, plantar lasentis, trigger imper, de quervams disease

		Common sprains of muscles, ligaments & tendons
WEEK 25-28	Soft Tissue Injury	Nerve injury
		Arterial injury
		Brachial plexuses injuries
WEEK 29	Deformity	Genu varum / Genuvalgum
		Principles of fracture classification
		Conservative management of fractures
		Principles of fracture fixation
		Fractures of upper limb
WEEK 30-38		Fracture of lower limb
		Pelvic trauma
	Fractures	Spine trauma
		Management of common dislocations
		Complications i.e. mal-union, non-union, AVN,
		Compartment syndrome
		Management of Open fractures
		Management of polytrauma patient

#### MBBS ACADEMIC PLANNER

### Urology SESSION 2022-2023

Subject:	Urology
Session	2022-2023
Total Hours	53
Total no. of lectures	34
Total duration of each lecture	45 minutes

#### **FACILITATORS:**

Assistant Prof Dr. Mohammad Nauman Dr. M. Ali Jan

LECT. NO.	PROPOSED TIME LINE	CHAPTER	TOPICS
1	Week 1	Introduction to Urology	Brief history of Urology
2	Week 2	Anatomy of kidney, ureter, bladder, prostate, testis	<ul> <li>Anatomy of kidney</li> <li>Anatomy of ureter</li> <li>Anatomy of bladder and function of bladder</li> <li>Anatomy of testis</li> <li>Anatomy of prostate</li> </ul>
3	Week 3	Symptoms in urology	<ul> <li>Symptoms of kidney disorders</li> <li>S/O Ureter disorders</li> <li>S/O Bladder disorders</li> <li>Testicular symptoms</li> <li>Prostate symptoms</li> </ul>
4	Week 4	Urolithiasis	<ul><li>Pathogenesis</li><li>Diagnosis</li><li>Treatment</li></ul>
5	Week 5	Prostate enlargement	<ul> <li>International Prostate Symptoms Score</li> <li>Diagnosis</li> <li>Treatment options – medical and surgical</li> <li>New modalities</li> </ul>

6	Week 6	CA - Prostate	<ul> <li>Gleason score</li> <li>Diagnosis</li> <li>Prostatic biopsy</li> <li>Treatment</li> <li>Follow up</li> </ul>
7	Week 7	CA – Urinary Bladder	<ul> <li>Classical presentation</li> <li>Diagnosis</li> <li>Treatment for local tumor in locally advanced metastasis</li> <li>Follow up</li> </ul>
8	Week 8	CA - Testis	<ul> <li>Diagnosis</li> <li>Tumor markers</li> <li>Treatment</li> <li>Follow up</li> </ul>
9	Week 9	Renal tumors	<ul> <li>Benign / malignant</li> <li>Diagnosis</li> <li>Treatment</li> <li>Follow up</li> </ul>
10	Week 10	Urinary bladder trauma	<ul><li>Classification</li><li>Grading</li><li>Management</li></ul>
11	Week 11	Renal trauma	<ul><li>Classification</li><li>Grading</li><li>Management</li></ul>
12	Week 12	Testicular trauma	<ul><li>Classification</li><li>Grading</li><li>Management</li></ul>
13	Week 13	Testicular torsion	<ul> <li>Symptoms/presentation</li> <li>Diagnosis</li> <li>Management</li> <li>Complications</li> </ul>
14	Week 14	Varicocele	<ul><li>Presentation</li><li>Diagnosis</li><li>Management</li><li>Complications</li></ul>
15	Week 15	Infertility	<ul><li>Primary infertility</li><li>Workup</li><li>Surgical/medical management</li></ul>

			Assisted reproductive techniques
16	Week 16	Renal failure	<ul><li>Classification</li><li>GFR measurement</li><li>management</li></ul>
17	Week 17	Renal transplant	<ul><li>Concept</li><li>Donor/Recipient</li></ul>
18	Week 18	Hypospadiasis	<ul><li>Classification</li><li>Diagnosis</li><li>Treatment</li></ul>
19	Week 19	PUJ obstruction	<ul> <li>Classification</li> <li>Diagnosis</li> <li>Treatment</li> <li>Management</li> </ul>
20	Week 20	VUR	<ul><li> Grading</li><li> Diagnosis</li><li> Management</li><li> Follow up</li></ul>
21	Week 21	ESWL	<ul> <li>Introduction</li> <li>Indications</li> <li>Contra indications</li> <li>Complications</li> </ul>
22	Week 22	IV contrast	<ul><li>Definition</li><li>Classification</li><li>Procedure</li><li>Complication</li></ul>
23	Week 23	Urethral trauma	<ul> <li>Symptoms/presentation</li> <li>Diagnosis</li> <li>Management</li> <li>Follow up</li> </ul>
24	Week 24	Polycystic kidney	<ul><li>Diagnosis</li><li>Management</li></ul>
25	Week 25	Acute/Chronic urine retention	Diagnosis     Management
26	Week 26	Penile trauma	<ul><li>Diagnosis</li><li>Management</li></ul>
27	Week 27	Incontinence	Classification     Diagnosis     Management
28	Week 28	VVF	Diagnosis

			Management
29	Week 29	UVF	Diagnosis
			<ul> <li>Management</li> </ul>
30	Week 30	PCN	<ul> <li>Indications</li> </ul>
			<ul> <li>Procedure</li> </ul>
31	Week 31	Suprapubic cystostomy	<ul> <li>Indications</li> </ul>
			Procedure
32	Week 32		<ul> <li>Diagnosis</li> </ul>
		UTI	Management
33	Week 33	DI	Diagnosis
		Phimosis	Management
34	Week 34	Para Phimosis	<ul> <li>Diagnosis</li> </ul>
			Management

# FINAL YEAR MBBS ACADEMIC PLANNER Radiology SESSION 2022-2023

#### **FACILITATORS:**

Prof. Dr. Javed Asghar

Prof. Khalid Farooq

Dr. Shazia Aleem (Sr. Radiologist)

Subject:	Radiology
Session	2018-2019
Total Hours	8
Total no. of lectures	10
Duration of each Lecture	45 min.

TOTAL NO.OF Lect. No.	Topic	Sub topics
1 <sup>st</sup> Lecture	Chest X-ray	To understand  Basic anatomy and interpretation  Understanding different diseases including Pneumothorax, Pneumonia, effusion, Cardiomegaly
2 <sup>nd</sup> Lecture	Chest X-ray	Different disease including pulmonary edema, fractures, surgical emphysema, neoplastic Diseases & chronic inflammatory disease
3 <sup>rd</sup> lecture	Abdomen x-ray	To understand  Normal anatomy and projections of abdomen, renal & urinary tract stones, gall stones and other calcifications, free gas under diaphragm, (perforation)
4 <sup>th</sup> lecture	Spine X-ray	Normal anatomy and projections, disc space reduction, vertebral collapse
5 <sup>th</sup> lecture	Barium Meal and with double contrast (where applicable)	Normal anatomy and various projections, gastric outlet obstruction, stomach mass/filling defect, colonic defects, stricture, Ulcerative colitis
6 <sup>th</sup> lecture	Intravenous Urogram	To understand  Basic interpretation & hydronephrosis and renal masses interpretation.
7 <sup>th</sup> lecture	Micturating Cystourethrogram	To understand  • Basic interpretation & reflux pathologies
8 <sup>th</sup> lecture	Cholecystogram	To understand  Basic interpretation & gall bladder diseases and stones
9 <sup>th</sup> lecture	CT / MRI	To Understand the  • Be able to interpret the report
10 <sup>th</sup> lecture	Test	Test Session

# THIRD YEAR BDS ACADEMIC PLANNER SURGERY SESSION 2022-2023

#### **FACILITATORS:**

Prof.Zahid Mahmood Dr. Maryam Jamil (Assistant Professor)

No	Days	Topics	Contents
1	wed	Infections 6 lectures	Wound healing and factors affecting wound healing Complications of wound healing, Sinus, fistula, Cellulitis, Abscess Spread of infection through facial planes
2	Thus	Infections 8 lectures	Cross infection control and sterilization Hospital infections Clinical presentation, diagnosis and treatment of bacterial, viral, fungal and protozoa infections Intracranial complications of dental infections Osteomyelitis
3	Wed	Salivary Glands 5 lectures	Sialadenitis, Sialolithiasis, Sialosis, Sjogren's syndrome Mikulicz syndrome, Mucocele, Ranula Benign and malignant tumors of salivary gland
4	Wed	Oral Cavity 5 lectures	Epidemiology, classification, clinical presentation, diagnosis and treatment of benign and malignant tumors of oral cavity including epithelial, soft tissue and bone Tongue, lips, buccal mucosa
5	Wed	Neck Pathology 10 lectures	Cervical lymphadenopathy, Branchial cyst, Dermoid cyst Sternomastoid tumor, Cervical rib, Carotid body tumor Carotid aneurysm, Thymic swelling, Cystic hygroma Pharyngeal pouch, Spinal abscess Thyroid gland. Thyroglossal cyst Parathyroid gland
6	Thus	Trauma	Mid Term Examination  Principles of pre-hospital, emergency and definitive care of trauma victim with
	30	4 lectures	special emphasis on management of Airway, Breathing, Circulation, CPR protocols Head injury, Chest trauma, Abdominal trauma Maxillofacial trauma Principle of fracture healing
7	Thus	Neoplasia 4 lectures	Definition Difference between benign and malignant tumors

			Carcinogens, Characteristics of malignancy Method of spread, Diagnosis Treatment, Radiotherapy complications Chemotherapy complications Basal cell CA, Squamous cell CA Melanoma, Osteosarcoma
8	Thus	Hemorrhage, shock, burns 8 lectures	Causes, presentation, diagnosis and management of primary and secondary and reactionary hemorrhage, nutrition, fluid therapy Vasovagal, cardiogenic, septic, anaphylactic, neurogenic hypoglycemic and hypovolemic shock
9	Thus	Larynx, Maxilla, Trachea& Esophagus (8. lecturers)	Maxillary sinusitis Carcinoma Maxillary sinus, Carcinoma Larynx, Tracheostomy, Ca esophagus Achalasia Cleft lip, Cleft palate
			Send up

## FOURTH PROFESSIONAL DPT ACADEMIC PLANNER GENERAL SURGERY

(Session 2022-2023)

Subject	General surgery
Session	2022-2023
Credit hours	80
Total no. of lectures	60
Course duration	3rd April– 30 <sup>th</sup> December 2023
Total no. of tests	4
Expected long test	1

Term	Units To Be Covered	
First	General Surgery	
Second	<ul><li>Thoracic surgery</li><li>Cardiac surgery</li><li>Pulmonary surgery</li><li>Vascular surgery</li></ul>	
Third	<ul><li>Neurosurgery</li><li>Cranial surgery</li><li>Surgery of spine</li></ul>	

#### FOURTH PROFESSIONAL DPT GENERAL SURGERY ACADEMIC PLANNER

#### (Session 2022-2023)

UNIT	SUB-TOPIC	TOTAL NO. OF LECTURES	LECTURES TO BE CONDUCTED
GENERAL SURGERY	<ul> <li>Introduction</li> <li>Indications for surgery</li> <li>Types of incisions</li> <li>Wounds, types of wounds, factors affecting wounds healing, care of wounds</li> <li>Bandages and dressing</li> <li>Trauma and metabolic response to trauma</li> <li>Detailed description of chest and abdominal trauma</li> <li>Hemorrhage, hemostasis and blood transfusion</li> <li>Classification and brief description of shock</li> <li>Fluid and electrolyte balance</li> <li>Classification of body fluid changes</li> <li>Pre, intra and post-operative` fluid therapy</li> <li>Surgery and diabetes</li> <li>Burns and grafts</li> <li>Neoplasia</li> <li>Preoperative assessment &amp; preparation</li> <li>Post-operative treatment,</li> </ul>	2 Lectures Week #1  2 Lectures Week #2  2 Lectures Week #3	BE CONDUCTED
	complications and their		

	management	
	-	
	Types of anaesthesia	
	<ul> <li>Local anaesthetic agents</li> </ul>	2 Lectures
GENERAL	<ul> <li>Regional anaesthesia (spinal</li> </ul>	Week #6
SURGERY	and epidural)	
	Intravenous anaesthetic agents	
	Muscle relaxants	2 Lectures
	Inhalational anaesthetic agents	Week #7
	Anaesthesia and associated	
	diseases.	
	Complications of anaesthesia	
	Perioperative management.	2 Lectures
	Cardiopulmonary Resuscitation.	Week #8
	CPR.	
	Recovery from anaesthesia	
	Pain management and	2 Lectures
	postoperative care.	Week #9
	Ulcers, sinuses and fistulas	
	Transplantation	
	Brief description of operation	2 Lectures
	performed on: oesophagus,	Week #10
	stomach, intestine gall bladder,	
	bile duct, spleen, pancreas, liver,	
	abdominal wall, hernias, breast,	
	kidneys, ureters, prostate,	
	peritoneum, mesentery and	
	retroperitoneal space	
	FIRST TERM TEST	
THORACIC	<ul><li>Introduction</li></ul>	2 Lectures
SURGERY	<ul> <li>types of incision</li> </ul>	Week #11
	• types of operation	
	<ul> <li>complications of pulmonary</li> </ul>	

	surgery	
1. Pulmonary Surgery		
	<ul> <li>Drains , tubes</li> <li>Pneumonectomy, lobectomy , thoracoplasty</li> <li>Operations on pleura</li> <li>Chest injuries</li> </ul>	2 Lectures Week #12
	<ul> <li>Brief description of indication for pulmonary surgery:</li> <li>Diseases of chest wall and pleura</li> <li>Diseases of bronchi</li> <li>Tumors of lung</li> </ul>	2 Lectures Week #13
	<ul> <li>Lung abscess</li> <li>Hydatid disease of lung</li> <li>Pulmonary embolism</li> <li>Mediastinal masses</li> <li>Problems related to diaphragm</li> </ul>	2 Lectures Week #14
	<ul> <li>Introduction</li> <li>Cardiorespiratory resuscitation</li> <li>Special investigation procedures in cardiac surgery</li> </ul>	2 Lectures Week #15
2. Cardiac Surgery	<ul> <li>Basic techniques in cardiac surgery</li> <li>Types of incision</li> <li>Types of operation</li> <li>Complications of cardiac surgery</li> <li>Lines, drains and tubes</li> </ul>	2 Lectures Week #16
	<ul> <li>Brief description of indications for cardiac surgery:</li> <li>Congenital heart diseases</li> <li>Acquired heart diseases</li> </ul>	2 Lectures Week #17

	Diseases of the pericardium	
	Cardiac transplantation	
	Introduction	
	Investigation in vascular disease	2 Lectures Week #18
	types of operation	Week #10
	Indication for vascular surgery	
	Complication of vascular surgery	
3. Vascular Surgery	Brief description of arterial	
	occlusion	
	Gangrene	
	Detailed description of amputation	2 Lectures Week #19
	■ Aneurysm	
	Burgers disease	
	Raynaud's disease and syndrome	
	Varicose veins	2 Lectures
	Superficial and deep venous	Week #20
	thrombosis	
	Venous hemorrhage	
	Lymph edema	
	Lymph adenitis and lymphomas	
	MID TERM TEST	
	Introduction	
	Special investigation in brain	2 Lectures Week #21
MELIDOGLIDGERY	diseases and traumas	
NEUROSURGERY	Types of operations, indications	
1. Cranial	and complications of cranial	
surgery	surgery	
	Head injuries to the brain	2 Lectures
	Acute intracranial hematomas	Week #22
	Fractures of the skull	

	<ul> <li>Intra cranial abscess</li> <li>Intracranial tumors</li> <li>Intra cranial aneurysm and hydrocephalus</li> </ul>	2 Lectures Week #23
2. Surgery of vertebral column spinal	<ul> <li>Dislocation and management of dislocation of vertebral column</li> <li>Tumors of vertebral column</li> <li>Prolapse intervertebral disc</li> </ul>	2 Lectures Week #24
cord and peripheral nerves	<ul><li>Disc protrusion</li><li>Spondylosis and spondylolisthesis</li></ul>	2 Lectures Week #25
	<ul> <li>Spinal cord injuries and their management</li> <li>Tumors of spinal cord types of operations performed on nerves</li> </ul>	2 Lectures Week #26
	<ul> <li>Nerve injuries and their surgical management</li> <li>Brief description of lesions of cranial and spinal nerves and their management</li> </ul>	2 Lectures Week #27

### Counselling

#### a. Career Guidance

To facilitate students in determining their career path and relevant education based on their personality, a type of counseling is undertaken by professionals to identify and explore the most suitable careers and occupations to start their career in the right direction

### b. Psychosocial Counselling

The goal is to help overcome students any kind of obstacle in life. Sessions are private and all information between students and professional stay confidential. Students can ask for help, whenever they experience emotional distress.

#### NOMINATED FACULTY MEMBER

- Dr. Sidra Shoaib Qureshi
- Dr. Wasif Majeed Chaudhary

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