



# Surgical Curriculum Manual

for undergraduates



DEPARTMENT OF SURGERY  
SHALAMAR MEDICAL & DENTAL  
COLLEGE  
LAHORE  
SHALIMAR LINK ROAD

**Department of Surgery & Allied at Shalamar Medical & Dental College is committed to produce high standard medical graduates who can generate high quality patient care and employs all possible modalities to achieve this objective.**



# **Surgical Curriculum Manual**

Department of Surgery & Allied  
Shalamar Medical & Dental College

Shalimar Link Road, Mughalpura, Lahore

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Chair of Surgery & Allied

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## Message from Chairman of the Department

Over the past years, the enduring clinical traditions of the Faculty of Surgery at Shalamar Medical & Dental College have not only been sustained but have also served as a source of inspiration for the Department of Surgery's mission. These objectives are dedicated to fulfilling the department's significant commitments to both the medical school and Surgical Education.

Medical education represents a nuanced blend of medical and professional learning. It involves mastering fundamental principles and theories while acquiring the necessary knowledge and experience for clinical practice. This education is tasked with conveying the ever-expanding realm of medical science and preparing individuals for a lifetime of competent and thoughtful patient interactions, especially in an era marked by rapid technological advancements and evolving societal needs.

In pursuit of these educational objectives, the Faculty of Surgery must strike a balance between conservatism and creativity. Preserving fundamental principles, such as a solid grasp of basic medical sciences, is universally acknowledged as essential. However, the landscape of medicine is evolving, necessitating a judicious approach to formal education duration, accommodating the growing number and complexity of specialized fields, and recognizing the diverse interests and talents among students. This requires continuous scrutiny and evaluation of our educational goals and processes.

The Surgery Curriculum is designed to offer students a clear and succinct overview of surgical teachings during the clinical phase of their studies at SMDC. This practical phase unfolds at Shalamar Teaching Hospital and Fauji Foundation Teaching Hospital. The Curriculum serves as a roadmap, delineating the extensive knowledge areas that students must master to achieve a comprehensive education in clinical surgery. It includes information on clinical attachments, lecture series, tutorials, exam timetables, and the academic calendar for the year.



**Dr Talat Waseem**

FRCS Eng, FRCS GenSurg, Postdoctoral Fellowship Surgical Research (Harvard), MME

Chairman Department of Surgery & Allied



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**Dr. Ather Touseef FCPS**  
Assistant Professor, FFH

## Medical Student Competencies and Overall Institutional Learning Objectives

Shalamar Medical & Dental College, Lahore has established a comprehensive set of competencies and institutional objectives to prepare students for practicing medicine in the 21st century. The principles of surgical teaching stand on the general competencies and institutional learning objectives. The general and specific learning objective discussed in this manual associated with each competency and the cognitive domain (knowledge, skill, attitude/behavior) are being continually institutionalized.



The six general clinical competencies for medical students (identical to the general competences of postgraduate training) include

- Integration of the Basic Sciences in Medicine
- Integration of Clinical Knowledge and Skills to Patient Care
- Interpersonal and Communication Skills
- Professionalism
- Organization and Systems-Based Approach to Medicine
- Life Long Learning and Self-Improvement

As we progress through the basic science curriculum of medical school, we would periodically review these competencies and educational objectives. These provide valuable guidelines to organization of the knowledge, skills and attitudes we will teach during this phase of professional growth.

## INTRODUCTION

The SMDC Department of Surgery is pleased to offer a clinical teaching curriculum which we promise will be challenging. The material that we will teach encompasses not only General Surgery, but also other surgical specialties.

Students in the core Surgery Rotations will acquire the knowledge and ability to recognize and assist in the treatment of disease during which surgery may play a role in a patient's treatment and recovery. Students will develop skills, knowledge and attitudes in pre-, intra-, and post-operative care of various surgical diseases.



### Goals:

By the conclusion of the clinical rotations, students will be able to:

1. Diagnose, evaluate, and treat patients with surgical conditions taking into account,
2. Recognition of surgical problems.
3. Knowledge of appropriate surgical interventions and alternative treatment
4. Appropriate pre-operative surgical work up and preparation.
5. How to care for the patient in the immediate post-operative period.
6. How to recognize post-operative complications needing further surgical care.
7. Cost/risk/benefit, as it applies to patient care, and as it relates to appropriate monitoring and/or screening of surgical conditions.
8. Be aware of, understand and apply specific surgical protocols in the operating room; e.g., scrubbing, gowning, gloving, draping, and prepping.

### Learning Objectives (Core Competencies):

#### A. Systems Based Practice

1. In general, to demonstrate knowledge of the health care system and to understand how to effectively use health care system resources to provide optimum patient care. Please find detailed learning objectives in **Appendix I**.
2. Specifically to demonstrate:
  - An understanding of what resources are appropriate.
  - A general concern for patients, as demonstrated in thoroughness of monitoring patients and attitudes toward record keeping.
  - Independent reading concerning problems seen (Problem Based Learning -PBL).



## B. Professionalism

1. In general, to demonstrate a commitment to professional responsibilities and sensitivity to a diverse patient population.

2. Specifically to demonstrate:

- Ability to relate and perform professionally in a working situation with other members of the Health Care Team.
- An openness to recognize limitation by using resources referrals and consultation with supervising preceptor or others, when appropriate.
- A constructively self-critical manner.
- Ability to perform duties within a professional comportment encompassing such areas as attendance, dress code, and general demeanor.



## C. Interpersonal Skills & Communication

1. In general, to demonstrate effective information exchange and teaming with patients, their families, and other health professionals.

2. Specifically to demonstrate:

- A sensitivity to understand and relate to the emotional and social background of patients.
- Good communication skills and rapport with patients, families, other health care professionals, staff, and supervisors.

## D. Relationship (Patient) Centered Care

In general, to demonstrate care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

## E. Practice Based Learning and Improvement

1. In general, to demonstrate appraisal and assimilation of scientific evidence, evaluation and improvement of patient care.

2. Specifically to demonstrate:

- Ability to perform the admitting history and physical examination.



- Ability to participate in, and assume appropriate responsibility for, the daily care of the surgical patient, as determined by the preceptor.
- Ability to understand diagnostic procedures and incorporate these into patient management



We hope that after clinical rotations students will not only master the knowledge base that encompasses the “surgical diseases” but also appreciate the role of surgery in the overall care of the patient. The curriculum is

organized in several levels. The first is a scenario and problem based approach, where we will cover common surgical conditions encountered by all physicians, especially in primary care and emergency care. Students will encounter common surgical cases which will be the basis for weekly discussion groups, as well as serving as the test questions on the final oral examination. Students will be expected to master the historical and physical exam findings pertinent to each case, outline the differential diagnosis and outline a plan of treatment.

The second level is organized by organ system, disease process and specialty. A robust series of lectures, including subspecialty lectures is required to be attended throughout the curriculum. These are supplemented by modules available online.

A third level of instruction is potentially the most important—that of learning from patients, residents and attending surgeons. All three will challenge your knowledge base, preparation, decision making skills, coordination and stamina on a daily basis. Surgeons love to teach and an interested prepared student will receive a great amount of education while taking care of patients with experienced surgeons.

While we realize that most students will not pursue careers in surgery, all will require knowledge and experience to properly take care of their patients in whatever field they eventually practice. But some will gain or further an interest in surgery, whether it is in general surgery or one of the many surgical specialties.

The Department of Surgery is available for advice and to help interested students start their careers in the wonderful and rewarding calling of Surgery.



## Overview of the Format & Content of Teaching

### TEACHING FORMAT

The principal contribution of the Department is to teaching surgery for attainment of MBBS Diploma. However, it also contributes to other aspects of medical education in the 3rd, 4th and 5th year. Students attend clinical sessions in the wards and clinics related to the subjects they are studying.

The Department of Surgery also contributes to other programs at the request of other Faculties. The Department is responsible primarily for the instruction of the undergraduate course in surgery for the Final Medical Examination (the program begins following the third year medical examination).



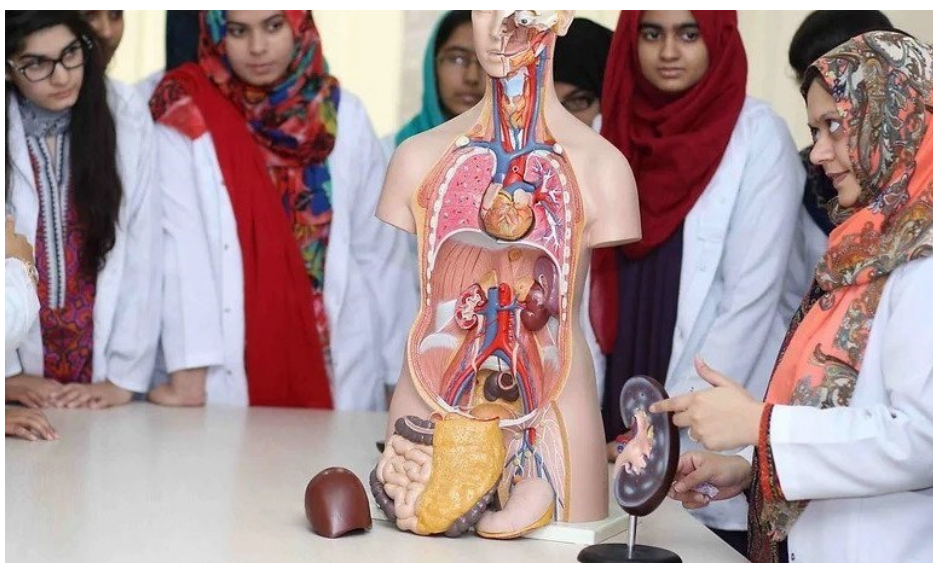
Students commence clinical rotations from 3<sup>rd</sup> year onwards. During this time, they rotate through various surgical consultant- led teams. They are encouraged to develop the skills of clinical history taking and physical examination by attending patients on the ward as well as taking part in the various other clinical and educational activities of the teams to which they are attached. Formal teaching consists of lectures, clinical demonstrations, tutorials, didactic, and bed side teaching.

The teaching settings that occur in the undergraduate teaching include the following:

#### Lectures

The formal lecture schedule is delivered throughout the curriculum on the core topics in Surgery. The lectures are designed to complement the basic sciences during first two years. The lectures cover the applied aspects of clinical anatomy and physiology by General Surgery, Orthopedic, Urology and Radiology Faculty members.

From 3<sup>rd</sup> year onwards the lectures begin in relation to clinical aspects of surgical teaching. General



surgery and subspecialties are involved in lecture taking to encompass the basic components of the general surgery and

surgical specialties. The lectures are designed in effort to complement the clinical teaching in the ward to meet the key learning objectives mentioned earlier.

### Seminars – Case Scenarios

These lectures are delivered by Consultants within their own discipline and take the form of didactic lectures. The subject matter of the lecture is circulated in advance so the students can prepare it.

### Clinico-Pathological Conference – Student Oriented

The primary objective of CPC is teaching of the 4<sup>th</sup> & Final Year students. The attendance of these classes is mandatory and students are taught in an interactive sessions regarding common and rare surgical problems.

### TEACHING ROUNDS

Bedside instruction is the basic element of teaching in the teaching rounds. The student meets the patient and learns to integrate the impressions that point to a diagnosis. Students learn that, through a rational evaluation of significant findings and an understanding of the mechanisms of the disease, a meaningful diagnosis can be made. Students learn to correlate the impressions of the physical examination and the history with simple, carefully evaluated laboratory tests that strengthen or modify their analysis of the patient's problems.

Through seminars, conferences, demonstrations, and lectures including ward rounds and clinical-pathological/radiological correlation discussions, emphasis returns to analysis of the mechanisms that express themselves as symptoms in the history and signs in the physical examination.

The student learns by participating, under close supervision, in all phases of the patient's care from admission to the hospital through final discharge and follow ups.

### CLINICAL ATTACHMENT

Students in 3<sup>rd</sup>, Fourth and Fifth Year are assigned to all surgical teams for a certain period whereby they attend Outpatients, Theatre, Surgical Day Ward, ward rounds, case conferences and interdisciplinary meetings.





In these attachments, students are exposed to a wide spectrum of surgical diseases. By following patients through their initial presentation, they observe the evolution and resolution of surgical disease processes. Teaching at the bedside, in particular, brings students and patients together for their mutual benefit. The attachments give the students the opportunity to actively expand their knowledge, develop technical and clinical skills and initiate relationships with patients, residents, faculty and staff.

The Department of Surgery engages in an array of different teaching modalities ranging from conventional didactic lectures, patient oriented bedside tutorials and out-patient clinic to interactive problem-solving style discussions.



## **SKILLS**

The following skills are taught as part of the undergraduate program.

### **Communication**

Communication is clearly vital attribute for any doctor. The department of surgery encourages and teaches Communication skills and supports and subscribes to initiatives to improve communication skills in medical students and indeed as interns in their pre-registration year.

### **Presentation skills**

Are developed throughout the course, both to small and large groups. The clinical examination section of the final surgical examination requires the student to present their findings formally to their examiners, making it important for students to develop these skills.

**Practical Skills** such as hand scrubbing

### **Working in groups**

Is a vital part of the practice of medicine, both in hospitals and in the community. All through their clinic attachments, students are attached to clinical teams and are encouraged to take part in team activities. They are also taught extensively about the modern multidisciplinary nature of surgical decision-making and therapy



## **ASSESSMENT OF EXAMINATION**



Assessment of the performance is principally by examination both at the end of the Final Medical Examination, students are also assessed at the end of each rotation.

The following methods are used for the Final Medical Examinations

- Written examination
- MCQ ( Single Best Answer)
- Case Scenarios and Principles
- OSPE 1 – Clinical Skill (unmanned)
- OSPE 2 – Clinical Skill (manned)
- Clinical Examination
- Continuous Assessment: clinical attachment, MCQ’s, OSCE

### Students Attendance

Student attendance is vital for clinical medicine modules and this is checked at all tutorial sessions. Students must attend at least 75% of their sessions to be allowed to sit their exams. The attendance of each student is also discussed with the clinical tutor. A written explanation of absence is encouraged for the students file.

### Teaching Venues and Facilities

The undergraduate teaching is done at various venues listed here.

Specialty	OPD Teaching	ER Teaching	Inpatient Teaching	OR Teaching	Hospital Auditorium	College Auditorium
<b>General Surgery</b>	Room 4a, 4b, Breast Center	ER	MSW/ FSW	OR 4a, 5,6,7	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Orthopedics</b>	Outpatient Complex	ER	MSW/ FSW	OR 2	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Urology</b>	Outpatient Complex	ER	MSW/ FSW	OR 3	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Anesthesia</b>	Outpatient Complex	ER	MSW/ FSW	OR Complex	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Plastic Surgery</b>	Outpatient Complex	ER	MSW/ FSW	OR 6	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Cardiovascular Surgery</b>	Outpatient Complex	ER	MSW/ FSW	OR8	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Radiology</b>	Outpatient Complex	ER	MSW/ FSW	NA	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>Ophthalmology</b>	Outpatient Complex	ER	MSW/ FSW	OR 2	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC
<b>ENT &amp; Head Neck Surgery</b>	Outpatient Complex	ER	MSW/ FSW	OR 5	Tumor Board, Grand Rounds, M&M, Faculty Development	CPC

## Year 1

- The objective is complement the basic sciences by integrating and synchronizing the key clinical applications of the anatomy, physiology and biochemistry through applied aspect teaching.
- **Mode of Teaching : Lectures**

## Year 2

- The objective is augment the basic sciences by integrating and synchronizing the key clinical applications of the anatomy, physiology and biochemistry through applied aspect teaching.
- **Mode of Teaching : Lectures**

## Year 3

- Year III would commence with clinical teaching in wards. The students would learn how to interact with the patient, colleagues paramedics in an ethical and professional manner. They would also learn how to take history and conduct a meaningful clinical examination that would yield towards diagnosis making.
- **Lectures, Scenario Based Learning, Didactic, Bedside teaching, Online Resources**

## Year 4

- Year IV would be used to teach core topics in General & Trauma Surgery, Orthopedics, Urology and Anesthesia and refine the clinical skills in wards. The students would rotate in General Surgery, Urology, Orthopedics, Anesthesia, Radiology for didactic and bedside teaching. They would also refine the way to take history and conduct a meaningful clinical examination that would yield towards diagnosis making.
- **Lectures, Scenario Based Learning, Didactic, Bedside teaching, Online Resources**

## Year 5

- Year V would be used to teach core topics in General & Trauma, Pediatric, Cardiovascular and Plastic Surgery, Orthopedics, Urology, Neurosurgery and Anesthesia and refine the clinical skills in wards. The students would rotate in General Surgery, Urology, Orthopedics, Anesthesia, Radiology for didactic and bedside teaching. They would also refine their diagnosis making and management of the patients.
- **Lectures, Scenario Based Learning, Didactic, Bedside teaching, Online Resources, Seminars**

### Overview of Key Learning Objectives and Mode of Teaching

# Year Wise Surgery & Allied Rotation Plan

## Hour Distribution according to PMDC Requirements

Programs	Rotation Plan	Year1 Lectures	Year1 Rotation	Year2 Lectures	Year2 Rotation	Year3 Lectures	Year3 Rotation	Year4 Lectures	Year4 Rotation	Year5 Lectures	Year5 Rotation	Total Hours
General Surgery	Y3, 6 wks rotation 3 at SMDC and 3 at FFH; Y4, 4 wks rotation; Y5, 8 wks rotation, Trauma Module , Revision Lectures	3	22	8	12	33	54	19	72	189	226	638
General Orthopedics	Y3 1 Wk rotation & Y4 2 wk rotation and Y5 1 wk			2		1	10	18	30	9	30	100
Special Orthopedics												0
Neurosurgery								5		5		10
Plastic Surgery	Y4, 1 wk rotation; Y5 1 wk rotation				4			6		10	35	55
Urology	Y3: 1 wk ; Y4 2 wk rotation			4		10		14	30	6		64
Cardiovascular Surgery	Y4, 1 wk rotation; Y5 1 wk rotation			2						5	20	27
Anesthesia & Critical Care	Y4, 2 week rotation & Y5 1 Wk Rotation					2		9		4	35	50
												0
Radiology	Y3, 1 week rotation						6		18			24
<b>Total</b>		<b>3</b>	<b>22</b>	<b>16</b>	<b>16</b>	<b>36</b>	<b>80</b>	<b>71</b>	<b>150</b>	<b>228</b>	<b>346</b>	<b>968</b>

## Learning Resources & Facilities at SMDC

### Central Library & Departmental Library

Shalamar Medical & Dental College has large book and journal reserve for the help of the students. The students can benefit from the environment for their career enhancement. The central and departmental libraries are available for the student service.



### Graduate Clinical Skill Lab

The department of Education has developed a Clinical Skill Lab. This skill lab has many manequins available for the student teaching on hand. The students learn basic surgical techniques which are important for the patient care. The students during their curriculum would visit the lab and would benefit from it without harming the patients themselves.



### Surgical Web Resources

A website is being launched with important scenario and problem based learning objective. The website would contain the links for various surgical clinical methods, tutorials, didactics, videos. Operative procedure videos to aid the student teaching. The website would also include Powerpoint Presentations for the student teaching.



### Surgical Teaching Co-ordination Cell

A cell has been established in the PA's office to Chair of Surgery for coordination of the surgical teaching among different classes. The data and processes are controlled from this cell and PA to HOD can be contacted in this regard.



# Surgical Teaching

## Year 1 & 2



The objective is to complement the basic sciences by integrating and synchronizing the key clinical applications of the anatomy, physiology and biochemistry through applied aspect teaching. Department of General Surgery, Orthopedics, Radiology, Anesthesia, Cardiovascular Surgery and Urology Faculty members have been designated the lecture schedule designed to complement the basic science teaching in coordination with the basic science departments and Department of Medical Education. The first two years have integrated modular teaching system in which the Department of Surgery and Allied Specialties contribute to the PBL and other sessions as part of the integrated curriculum. For early clinical exposure the first year and second year students are rotated within all subspecialties.

The detail of lectures to be delivered has been attached in this manual at the end. **(Appendix II, III).**

During these years the students are tested with MCQ based assessment papers (Cognitive Domain) conducted throughout the year and the results are shared with Department of Medical Education and Student Affairs through the software.

Prof. Muaz ul Hassan and Dr Rizwan A Khan are responsible for ensuring the overall coordination and conduction of assessments during Year 1 & 2.

**Mode of Teaching: Lectures (Cognitive Domain); Problem Based Learning**

# Surgical Teaching

## Year 3



In Third year of medical school, clinical teaching in surgery would commence. The aim is to provide medical students with exposure to common surgical problems, develop basic clinical skills appropriate for third year curriculum and to broaden their horizon about surgery and its subspecialties so that they can evaluate surgery as a future career.

Upon completion of the surgical rotation, following general objectives of clinical surgical teaching should be met by the student:

- a. Student is able to take meaningful clinical history and perform clinical examination.
- b. Demonstrate professional attitude and values towards colleagues and patients
- c. The above said objectives have to be correlated with clinical application of these modules.

The Department of General Surgery, Orthopedics, Radiology and Urology Faculty members have been designated lecture schedule (**Appendix IV**) designed to introduce basics of surgery in synchrony with basic sciences. The students are subdivided into batches and rotate for 8 weeks in **Shalamar Teaching Hospital** and **Fauji Foundation Hospital** (See **Appendix V**). The teaching would be done in Didactic sessions and bedside teaching with equal focus. The teaching modules for clinical teaching have been developed (See **Below**). Online Modules are also available at the website to complement the didactic and bedside teaching.

**Shalamar Hospital**

	Week 1	Week 2	Week 3	Week 4 (Orthopedics)
<b>Monday</b>	History Taking	Examination of Lump	History Taking of Thyroid Disease	History Taking in Orthopedics
<b>Tuesday</b>	History of Pain	Examination of Ulcer	Examination of Thyroid	Examination of Shoulder and Elbow Joint
<b>Wednesday</b>	History of Lump	History Taking of GIT	Examination of Neck Swellings	Examination of Knee Joint
<b>Thursday</b>	History of Ulcer	Examination of Abdomen	Ano-rectal Examination	Examination of Hip Joint
<b>Friday</b>	General Physical Examination	Symptoms of Ano-rectal Disease	History Taking & Examination of Breast	Examination of Spine

**Fauji Foundation Hospital**

	Week 1	Week 2	Week 3	Week 4 (Urology & Radiology)
<b>Monday</b>	History Taking	Examination of Lump	History & Examination of Salivary Glands	History of Urinary Symptoms
<b>Tuesday</b>	History of Pain	Examination of Ulcer	Assessment of Arterial System of Limbs	History of Urinary Symptoms
<b>Wednesday</b>	History of Lump	History Taking of GIT	Acute and Chronic Arterial Insufficiency	Examination of Urinary Tract
<b>Thursday</b>	History of Ulcer	Examination of Abdomen	Assessment of Venous Circulation of Limbs	Principles of X-rays
<b>Friday</b>	General Physical Examination	Symptoms of Ano-rectal Disease	History Taking and Examination of Hernia	Principles of Ultrasound

The detail of the student Batch rotating in clinical wards is attached here in Appendix VI. At the end of each rotation both at **Shalamar Teaching Hospital** and **Fauji Foundation Hospital**, an assessment of clinical skills would be conducted in the Department of Surgery.

The detail of lectures to be delivered has been attached in this manual at the end. (Appendix V).

During this year the students are tested for delivered lectures with MCQ based assessment papers (Cognitive Domain) conducted throughout the year and the results are shared with Department of Medical Education and Student Affairs through the software.

For the Online Modules (involving History Taking, Clinical Examination and Communication Skills), an OSPE is conducted (4 Stations) which would assess the Clinical Skills of the students through Cognitive, Psychomotor and Affective Domain. The OSPE has 30% Cognitive, 50% Psychomotor and 20% Affective domain. 10% would be reserved for attendance. The station detail for example has been given below:

<p><b>Station 1 (30 Marks)</b> <b>(5 minutes)</b></p> <p>History Taking</p>	<p><b>Station 3 (20 Marks)</b> <b>(5 minutes)</b></p> <p>Communication Skills (Consenting, Counseling)</p>
<p><b>Station 2 (30 Marks)</b> <b>(5 minutes)</b></p> <p>Clinical Surgical Examination</p>	<p><b>Station 4 (20 Marks)</b> <b>(5 minutes)</b></p> <p>Static Station with Pictures, X-rays, Patients, for assessing the cognitive portion of teaching</p>

Prof Tauseef Asghar is responsible for ensuring the overall coordination and conduction of assessments during Year 3.

**Mode of Teaching: Lectures (Cognitive Domain)**

**Online Modules, Didactics & Bedside Teaching (Psychomotor & Affective Domain)**



# Surgical Teaching

## Year 4



In fourth year of medical school teaching, clinical teaching in surgery would base on the foundation from Curriculum of third year. The aim is to provide medical students with enhanced exposure to common surgical problems, develop basic clinical skills appropriate for fourth year curriculum and to broaden their horizon about surgery and its subspecialties so that they can evaluate surgery as a future career.

Upon completion of the surgical rotation, following general objectives of clinical surgical teaching should be met by the student:

- Student is able to take meaningful clinical history and perform clinical examination leading to diagnosis making.
- Demonstrate and strengthen professional attitude and values towards colleagues and patients
- Identify the common surgical problems and construct appropriate diagnostic and brief management plan
- Identify the common surgical emergencies and acquire surgical consultation
- Learn to apply the principles of resuscitation to a patient with shock

Fourth Year Clinical Teaching would primarily comprise patient side teaching at C3 and above cognitive level, P1-3 Psychomotor skill level and A1-2 affective level. The teaching should be in form of didactic, bedside and case-based learning with eventual transformation to problem based learning (PBL).

**Trauma Module** is conducted through SeLMS for the fourth year students. A **Clinical Skill Competition** is arranged annually. All students are required to write down 20 histories and clinical examinations for various disorders.

**General Surgery Rotation:**

Six week rotation would be split into surgical units (3 weeks each). Prof. Tauseef Asghar from Surgical Unit 1 and Prof Maaz ul Hasan & Dr. Rizwan A Khan from Unit 2 would be responsible for the overall clinical teaching of the fourth year.

Following Core Topics need to be essentially covered in three weeks of general surgical rotation by Surgical Unit 1:

1. Examination of Swelling, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
2. Examination of Ulcer, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
3. Examination of Neck Swellings, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
4. Examination of Thyroid, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
5. Examination of Peripheral Neurovascular System, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
6. Examination of varicose veins & DVT, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
7. Examination of abdominal exam, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
8. Examination of Breast, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
9. Examination of Inguinoscrotal Area, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
10. Examination of Perianal Area, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making

4 <sup>th</sup> Year Teaching Unit 1		
	Session 1 10:30-12:30	Session 2 12:30-1:00
	Surgical / Allied OPD	OPD Tutorial Room
Monday	Prof. Tauseef Asghar	Prof. Tauseef Asghar
Wednesday	Prof. Tauseef Asghar	Dr Ahsan Shafiq/ Prof Khwaja Azim
Friday	Radiology Lecture Hall 2	Dr. Talat Waseem
4 <sup>th</sup> Year Teaching Unit 1		
	Session 1 10:30-12:30	Session 2 12:30-1:00
	OT	OT
Tuesday	Prof. Tauseef Asghar	Prof. Tauseef Asghar
Thursday	Prof. Tauseef Asghar	Prof. Tauseef Asghar

4<sup>th</sup> Year Teaching Unit 2

	Session 1	Session 2
	10:30-12:30	12:30-1:00
	Surgical Ward/ Allied OPD	OPD Tutorial Room
Tuesday	Dr. Rizwan Khan	Prof. Hammad Rana
Thursday	Dr. Rizwan Khan	Dr. Rizwan Khan

4<sup>th</sup> Year Teaching Unit 2

	Session 1	Session 2
	10:30-12:30	12:30-1:00
	OT	OT
Monday	Dr. Rizwan Khan	Dr. Rizwan Khan
Wednesday	Dr. Rizwan Khan	Dr. Rizwan Khan
Friday		

\*MIT (Mode of Instruction in Teaching); \*\*PST (Patient Side Teaching); \*\*\*MOA (Mode of Assessment)

Surgical Unit 1: Week 1

	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA***	Venue	MIT
Monday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Case Presentation
Tuesday	Theater	Didactic	Introduction to operation theater environment (Preop, Postop, Theaters, CSSD, Administrative units)			
Wednesday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Peri-operative care: Case Presentation
Thursday	Theater	Didactic	Preoperative Assessment & Preparation			
Friday	Lecture Hall # 2	Radiology-Lecture	Introduction to Radiology, chest Radiology	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

Surgical Unit 1: Week 2

	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA** *	Venue	MIT
Monday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Case Presentation
Tuesday	Theater	Didactic	Postoperative Care & Monitoring			

Wednesday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Peri-operative care: Case Presentation
Thursday	Theater	Didactic	Operation Theater equipment (light, table, diathermy, laparoscopy instruments, anesthesia machine, operative instruments)			
Friday	Lecture Hall # 2	Radiology-Lecture	CT-Brain-Emergent Pathologies	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

**Surgical Unit 1: Week 3**

	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA** *	Venue	MIT
Monday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Case Presentation
Tuesday	Theater	Didactic	Peri-operative care, Monitoring and handling issues			
Wednesday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Peri-operative care: Case Presentation
Thursday	Theater	Didactic	Principles and Disinfection, Antisepsis and Asepsis and their Utility in Operation theater			
Friday	Lecture Hall # 2	Radiology-Lecture	Abdominal Plain Radiography, KUB, Int-estinal Obstruction, Pneumoperitoneum	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

Following Core Topics need to be essentially covered and form the learning objectives in three weeks of general surgical rotation by Surgical Unit 2:

1. Examination of Neck Swellings, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
2. Examination of parotid & Submandibular Swellings, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
3. Examination of Abdominal Swellings and Masses, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
4. Examination of Inguinoscrotal Swellings, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
5. Examination of Peripheral Neurovascular System, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making

6. Examination of Diabetic Foot, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
7. Examination of abdominal exam, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
8. Examination of Breast, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
9. Examination of Acute Abdomen, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making
10. Examination of Perianal Area, Differential Diagnosis, Understanding Clinical Reasoning and Diagnosis Making.

\*MIT (Mode of Instruction in Teaching); \*\*PST (Patient Side Teaching); \*\*\*MOA (Mode of Assessment)

Surgical Unit 2: Week 1						
Surgical Unit 2	Session 1 (10:30 am- 12:30pm)			MOA***	Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic		Venue	MIT
	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA***	Venue	MIT
Monday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Case Presentation
Tuesday	Theater	Didactic	Aseptic Technique, Gloving & Gowning			
Wednesday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Peri-operative care: Case Presentation
Thursday	Theater	Didactic	Basic suturing Techniques & Hemostasis (P1 only Observation in Theater)			
Friday	Lecture Hall # 2	Radiology-Lecture	Contrast Studies -GI X-rays-Spine and Limb Fractures	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					
						Work
Saturday	Holiday					

Surgical Unit 2: Week 3						
Surgical Unit 2	Session 1 (10:30 am- 12:30pm)			MOA***	Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic		Venue	MIT
Monday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Case Presentation
Tuesday	Theater	Didactic	Theater Behaviors & Ethics			
Wednesday	OPD	PST**	Case based Learning and Patient side Teaching	MCQs, OSCE	Hospital Auditorium	Peri-operative care: Case Presentation
Thursday	Theater	Didactic	Blood & Blood Products, indications of use, Advantages and Disadvantages			
Friday	Lecture Hall # 2	Radiology-Lecture	Anatomy & General Pathologies CT Head to Toes	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work

Saturday Holiday

**Orthopedic Surgery Rotation:**

Following are the topic need to essentially covered in 2 Weeks of Orthopedics Clinical Rotation.

- |  |   |
|--|---|
| 1. Examination of Shoulder of Shoulder | Understanding of clinical reasoning –Diagnosis Making |
| 2. Examination of Elbow                | Understanding of clinical reasoning –Diagnosis Making |
| 3. Examination of Wrist/Hand           | Understanding of clinical reasoning –Diagnosis Making |
| 4. Examination of Spine                | Understanding of clinical reasoning –Diagnosis Making |
| 5. Examination of Hip                  | Understanding of clinical reasoning –Diagnosis Making |
| 6. Examination of Knee                 | Understanding of clinical reasoning –Diagnosis Making |
| 7. Examination of Ankle/Foot           | Understanding of clinical reasoning –Diagnosis Making |

Orthopedics: Week 1						
Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)		
Orthopedics : Week 2						
Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)		
	Venue	MIT*	Topic	MOA**	Venue	MIT
Monday	OPD	PST	Examination of Spine <b>(Dr.Usman Sarwar)</b>	MCQs OSCE,	OPD	Same
Tuesday	OT	Didactic	Principles of ORIF <b>(Dr.Usman Sarwar)</b>	MCQs OSCE,	OT	Same
Wednesday	OPD	PST	Examination of Hip <b>(Dr.Muhammad Saleem)</b>	MCQs OSCE	OPD	Exam of Knee
Thursday	OT	Didactic	Principles of Debridement+ CT/MRI Pts. <b>Dr,Muhammad Saleem)</b>	MCQs, OSCE	OPD	Principles of Wound Closure
Friday	Lecture Hall # 2	Radiology- Lecture	MRI-Brain, Spine, MRCP, Pelvis		Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

**Urology Rotation:**

Urology: Week 1						
Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)		
	Venue	MIT*	Topic	MOA**	Venue	MIT
Monday	Theatre	Didactic	Urology theatre equipment, Procedure	MCQ'S OSCE'S	GOT	Case Presentation
Tuesday	OPD	PST	Bladder out let obstruction  Presentation	MCQ'S OSCE	OPD	Case

Wednesday	OPD	PST	Bladder tumor	MCQ'S OSCE'S	OPD	Case Presentation
Thursday	OPD	PST	Renal Stone, Common Urological Surgery Pre & Post Op Care Presentation	MCQ'S OSCE	OPD	Case
Friday	Lecture Hall # 2	Radiology- Lecture	Ultrasound-Hepatobiliary,KUB	MCQ'S OSCE'S	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

**Urology : Week 2**

	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA***	Venue	MIT
Monday	OPD	PST	B.P.H	MCQ'S OSCE'S	OPD	Case Presentation
Tuesday	OPD	PST	CA Prostate	MCQ'S OSCE'S	OPD	Case Presentation
Wednesday	OPD	PST	UTI	MCQ'S OSCE'S	OPD	Case Presentation
Thursday	Theater	Didactic	Common Urological Surgeries	MCQ'S OSCE'S	OPD	Case Presentation
Friday	Lecture Hall # 2	Radiology- Lecture	Interventional Radiology	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

**Anesthesia Rotation:**

Student should be able to have basic understanding of following Procedures:

- Airway, Chin Lift & Jaw Thrust with Mask holding, Triple Maneuver
- LMA insertion Attempt (Minimum Two) ,Intubation Attempt,
- Spinal Anesthesia (basics), Intravenous line insertion technique and practical.

Student would be able to have the basic knowledge of:

- Basic Life Support
- General Anesthesia (Intravenous drugs, Intravenous Analgesics, Muscle relaxant & Local Anesthetics)
- Epidural Anesthesia , Spinal Anesthesia & Palpation of Vertebral column
- Basic Fluid Management & Arterial blood gases

**Anesthesia: Week 1**

	Session 1 (10:30 am- 12:30pm)	Session 2 (12:30-1:00 pm)
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	Venue	MIT*	Topic	MOA** *	Venue	MIT
Monday	OT	PST	Airway+ Chin Lift, Trippl Manouver (Prof.Muhammad Mubeen)	MCQs, OSCE	OT	Jaw Thrust with mask holding
Tuesday	OT	Didactic	General Anesthesia (Dr.Aamir Waseem)	MCQs OSCE	OT	Same
Wednesday	OT	Didactic	Basic Life Support ( Dr.Aamir Bashir)	MCQs, OSCE	OT	Same
Thursday	OT	PST	IV Line Airways (Dr.Itrat Kazmi)	MCQs, OSCE	OT	Repeat
Friday	Lecture Hall # 2	Radiology- Lecture	CT- Trauma	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

Anesthesia : Week 2						
	Session 1 (10:30 am- 12:30pm)				Session 2 (12:30-1:00 pm)	
	Venue	MIT*	Topic	MOA***	Venue	MIT
Monday	OT	Didactic	Basic Fluid Management (Prof. M. Mubeen)	MCQs, OSCE	OT	Arterial blood gases
Tuesday	OT	PST	Spinal Anesthesia Basic, of Spinal Anesthesia (Dr.Itrat Kazmi)	MCQs, OSCE	OT	Palpation Vertebral column
Wednesday	OT	PST	LMA, insertion attempt, intubation attempt (Dr.Aamir Waseem)	MCQs, OSCE	OT	Intravenous line insertion techniques & Practical
Thursday	OT		Evaluation of Batch students			
Friday	Lecture Hall # 2	Radiology- Lecture	Ultrasound-Obs, Gynae, Small Parts	MCQs, OSCE	Hospital Auditorium	Journal Club/ Research Work
Saturday	Holiday					

The detail of the student Batch rotating in clinical wards is attached here in Appendix VI. At the end of each rotation both at **Shalamar Teaching Hospital**, an assessment of clinical skills would be conducted in the Department of Surgery.

For the 4<sup>th</sup> Year Class a Trauma Module would be administered through SeLMS based on the basics of ATLS protocol, which would be combination of tutorial, didactic and psychomotor learning in single day with collaboration of the Anesthesia, Orthopedics and Surgery Department. The activity would end with an MCQ test which in the end would be part of the cumulative scoring in surgery.



The detail of lectures to be delivered has been attached in this manual at the end. (Appendix VII).

During this year the students are tested for delivered lectures with MCQ based assessment papers (Cognitive Domain) conducted throughout the year and the results are shared with Department of Medical Education and Student Affairs through the software.

For the Online Modules (involving History Taking, Clinical Examination and Communication Skills), an OSPE is conducted (10 Stations) which would assess the Clinical Skills of the students through Cognitive, Psychomotor and Affective Domain. The OSPE has 30% Cognitive, 50% Psychomotor and 20% Affective domain. 10% would be reserved for attendance. The station detail for example has been given below:

<b>Station 1</b> Radiology Interactive	<b>Station 2</b> Urology Interactive	<b>Station 3</b> Orthopedics Interactive	<b>Station 4</b> History Taking	<b>Station 5</b> History Taking Interactive
<b>Station 6</b> Abdominal Examination Interactive	<b>Station 7</b> Neck Examination Interactive	<b>Station 8</b> Examination of Lump Interactive	<b>Station 9</b> Examination of Ulcer Interactive	<b>Station 10</b> General Surgery Short Cases Interactive

Prof. Hammad Naeem Rana is responsible for ensuring the overall coordination and conduction of assessments during Year 4.

**Mode of Teaching: Lectures (Cognitive Domain)**

**Online Modules, Didactics & Bedside Teaching (Psychomotor & Affective Domain)**

# Surgical Teaching

## Year 5



In final year of medical school teaching, clinical teaching in surgery would base on the foundation from Curriculum of fourth year. The aim is to provide medical students with enhanced exposure to common surgical problems, develop basic clinical skills appropriate for final year curriculum and to broaden their horizon about surgery and its subspecialties so that they can evaluate surgery as a future career.

Upon completion of the surgical rotation, following general objectives of clinical surgical teaching should be met by the student:

- Student is able to take meaningful clinical history and perform clinical examination leading to diagnosis making.
- Demonstrate and strengthen professional attitude and values towards colleagues and patients
- Identify the common surgical problems and construct appropriate diagnostic and brief management plan
- Identify the common surgical emergencies and acquire surgical consultation
- Learn to apply the principles of resuscitation to a patient with shock

Final Year Clinical Teaching would primarily comprise patient side teaching at C3 (Bloom's Taxonomy) and above cognitive level, P1-3 Psychomotor skill level and A1-2 affective level. The teaching should be in form of didactic, bedside and case-based learning with eventual transformation to problem based learning (PBL).

The Department of General Surgery, Orthopedics, Radiology, Anesthesia, Cardiothoracic Surgery, Pediatric Surgery, Neurosurgery and Urology Faculty members have been designated the lecture schedule designed to introduce basics of surgery. Basics of clinical judgment and approaches to various common presentations of surgical problems would

be introduced. The students are subdivided into batches and rotate for 12 weeks in **Shalamar Teaching Hospital (See Appendix)**. The teaching would be done in Didactic sessions and bedside teaching with equal focus. The teaching modules for clinical teaching have been developed. Online Modules are also available at the website to complement the didactic and bedside teaching.

**Trauma Module** would be conducted on a selected day for the final year students. A **Clinical Skill Competition** would also be arranged. All students would be required to write down 20 histories and clinical examinations for various disorders. An online **Surgical Quiz of the Week** would be administered based on problem based learning.

The students would be exposed to **Case Presentations, Journal Club** in the Surgical Units on alternate days.

Following **Online Modules** would be developed which would be problem based and scenario-based learning modules for the overall surgical teaching to cover the core topics. These modules would be made available through a virtual learning environment.

1. Upper GI Bleed
2. Lower GI Bleed
3. Postoperative Respiratory Distress
4. Management of Acute Revealed or Concealed Hemorrhage
5. Postoperative Fever
6. Pain Management
7. Acute intestinal Obstruction
8. Acute Abdomen- Peritonitis
9. Dealing with Head Injury
10. ABC of the Trauma patient
11. Obstructive Jaundice- Painful
12. Obstructive Jaundice- Painless
13. Dysphagia
14. Painful Defecation
15. Bleeding per Rectum
16. Gastric Outlet Obstruction
17. Carcinoma Breast Stage 1
18. Carcinoma Breast Stage 2
19. Carcinoma Breast Stage 3
20. Carcinoma Breast Stage 4
21. Carcinoma in Situ Breast
22. Colorectal Cancer
23. Ulcerative Colitis
24. Crohn's Disease
25. Pain Epigastrium
26. Pain Right Hypochondrium
27. Pain Right Iliac Fossa
28. Pain Periumbilical region
29. Pain Hypogastric Region
30. Pain left Iliac Fossa
31. Pain Flank
32. Inguinoscrotal Swelling
33. Abdominal Mass
34. Blunt Abdominal Trauma

## General Surgery Rotation:

12 weeks rotation would be split into two surgical units (6 weeks each). Final Year students would be taught in 4 sessions to encompass various dimensions of clinical teaching.

Here is the teaching roster for the final year students in Unit 1 & 2.

Final Year Teaching- OPD Days- Unit 1					
	Session 1	Session 2	Break	Session 3	Session 4
	11:00-12:30	12:30-1:00	1:00-2:00	2:00-3:00	3:00-4:00
	Surgical OPD/ Ward, Presentations/ Journal Club/ Topic Presentations	Surgical OPD/ Ward		Surgical OPD/	College Skill Lab
<b>Monday</b>	Prof. Khwaja Azim	Prof. Khwaja Azim		Prof Khwaja Azim	Dr. Roshan Butt
<b>Wednesday</b>	Prof. Tauseef Asghar	Prof. Tauseef Asghar		Prof Tauseef Asghar	Dr. Roshan Butt
<b>Friday</b>	Dr Talat Waseem	Dr. Talat Waseem		Dr Talat Waseem	Dr. Roshan Butt

Final Year Teaching- Theater Days- Unit 1					
	Session 1	Session 2	Break	Session 3	Session 4
	11:00-12:30	12:30-1:00	1:00-2:00	2:00-3:00	3:00-4:00
	OT	OT		OT	OT
<b>Tuesday</b>	Prof. Khwaja Azim	Dr Talat Waseem		Dr Ahsan Shafiq	Dr Ammara Younus
<b>Thursday</b>	Prof. Khwaja Azim	Dr Talat Waseem		Dr Tatheer Abbas	Dr Ammara Younus

Final Year Teaching- Evening Emergencies (Emergency Surgery)- Unit 1				
Monday	Tuesday	Wednesday	Thursday	Friday
3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM
Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call

Final Year Teaching- OPD Days- Unit 2					
	Session 1	Session 2	Break	Session 3	Session 4
	10:30-12:30	12:30-1:00	1:00-2:00	2:00-3:00	3:00-4:00

	Surgical OPD/ Ward	Hospital Auditorium	MSW Demo/ Surgical OPD	College Skill Lab
<b>Tuesday</b>	Prof. Hammad Rana	Prof. Hammad Rana	Prof. Hammad Rana	Dr. Rooh ul Ain
<b>Thursday</b>	Prof. Hammad Rana	Prof. Hammad Rana	Prof. Hammad Rana	Dr. Rooh ul Ain

**Final Year Teaching- Theater Days- Unit 2**

	<b>Session 1</b>	<b>Session 2</b>	<b>Break</b>	<b>Session 3</b>	<b>Session 4</b>
	<b>10:30-12:30</b>	<b>12:30-1:00</b>	<b>1:00-2:00</b>	<b>2:00-3:00</b>	<b>3:00-4:00</b>
<b>Monday</b>	OT Prof. Hammad Rana	OT Prof. Hammad Rana		OT Prof. Hammad Rana	OT Prof. Hammad Rana
<b>Wednesday</b>	Prof. Hammad Rana	Prof. Hammad Rana		Prof. Hammad Rana	Prof. Hammad Rana
<b>Friday</b>	Prof. Hammad Rana	Prof. Hammad Rana		Prof. Hammad Rana	Prof. Hammad Rana

**Final Year Teaching- Evening Emergencies (Emergency Surgery)- Unit 2**

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM
Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call

For One month the students are rotated within different subspecialties (Plastic Surgery, Anesthesia and Critical care, Cardiovascular Surgery and Orthopedic Surgery).

**Final Year Teaching- OPD Days- Allied Specialties (Anesthesia)**

	<b>Session 1</b>	<b>Session 2</b>	<b>Break</b>	<b>Session 3</b>	<b>Session 4</b>
	<b>10:30-12:30</b>	<b>12:30-1:00</b>	<b>1:00-2:00</b>	<b>2:00-3:00</b>	<b>3:00-4:00</b>
	GOT	GOT		GOT	GOT
<b>Monday</b>	Prof. Dr. M. Mubeen	Prof. Dr. M. Mubeen		Prof. Dr. M. Mubeen	Prof. Dr. M. Mubeen
<b>Tuesday</b>	Dr. Ittrat Hussain Kazimi	Dr. Ittrat Hussain Kazimi		Dr. Ittrat Hussain Kazimi	Dr. Ittrat Hussain Kazimi
<b>Wednesday</b>	Dr. Amir Bashir	Dr. Amir Bashir	Dr. Amir Bashir	Dr. Amir Bashir	
<b>Thursday</b>	Dr. Amir Waseem	Dr. Amir Waseem	Dr. Amir Waseem	Dr. Amir Waseem	

Friday	Prof. Dr. M. Mubeen	Prof. Dr. M. Mubeen	Prof. Dr. M. Mubeen	Prof. Dr. M. Mubeen
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**Final Year Teaching- OPD Days- Allied Specialties(Orthopedic)**

	Session 1 10:30-12:30	Session 2 12:30-1:00	Break 1:00-2:00	Session 3 2:00-3:00	Session 4 3:00-4:00
	Ortho OPD	Ortho OPD		Ortho OPD	Ortho OPD
Monday	Prof. Dr. M. Saleem	Prof. Dr. M. Saleem		Prof. Dr. M. Saleem	Prof. Dr. M. Saleem
Tuesday	Dr. Muhammad Ali	Dr. Muhammad Ali		Dr. Muhammad Ali	Dr. Muhammad Ali
Wednesday	Prof. Dr. M. Saleem	Prof. Dr. M. Saleem		Prof. Dr. M. Saleem	Prof. Dr. M. Saleem
Thursday	Dr. Usman Sarwar	Dr. Usman Sarwar		Dr. Usman Sarwar	Dr. Usman Sarwar
Friday	Dr. Muhammad Ali	Dr. Muhammad Ali		Dr. Muhammad Ali	Dr. Muhammad Ali

**Final Year Teaching- OPD Days- Allied Specialties (Cardiac Vascular Surgery)**

	Session 1 10:30-12:30	Session 2 12:30-1:00	Break 1:00-2:00	Session 3 2:00-3:00	Session 4 3:00-4:00
	Cardiac ICU	Cardiac ICU		Cardiac ICU	Cardiac ICU
Monday	Dr Ahsan Arif	Dr Ahsan Arif		Dr Ahsan Arif	Dr Ahsan Arif
Tuesday	Dr Ahsan Arif	Dr Ahsan Arif		Dr Ahsan Arif	Dr Ahsan Arif
Wednesday	Dr Ahsan Arif	Dr Ahsan Arif		Dr Ahsan Arif	Dr Ahsan Arif
Thursday	Dr Ahsan Arif	Dr Ahsan Arif		Dr Ahsan Arif	Dr Ahsan Arif
Friday	Dr Ahsan Arif	Dr Ahsan Arif		Dr Ahsan Arif	Dr Ahsan Arif

**Final Year Teaching- OPD Days- Allied Specialties (Plastic Surgery)**

	Session 1 10:30-12:30	Session 2 12:30-1:00	Break 1:00-2:00	Session 3 2:00-3:00	Session 4 3:00-4:00
	Burn OPD	Burn OPD		Hashmat Affandi Ward	Hashmat Affandi Ward
Monday	Dr Asif Zubair	Dr Asif Zubair		Dr Asif Zubair	Dr Asif Zubair
Tuesday	Dr Asif Zubair	Dr Asif Zubair		Dr Asif Zubair	Dr Asif Zubair
Wednesday	Dr Asif Zubair	Dr Asif Zubair		Dr Asif Zubair	Dr Asif Zubair
Thursday	Dr Asif Zubair	Dr Asif Zubair		Dr Asif Zubair	Dr Asif Zubair

Friday

Dr Asif Zubair

Dr Asif Zubair

Dr Asif Zubair

Dr Asif Zubair

## Emergency Surgery Clinical Rotation for the Final Year Medical Students



Welcome to the 12-week Surgical Clinical Rotation in the Emergency Department at Shalamar Medical and Dental College in Lahore. This program is tailored for final-year medical graduates, providing a focused and intensive learning experience in General Surgery, Anesthesia, Orthopedics, Vascular Surgery, and Plastic Surgery. The rotation, conducted from 3:00 PM to 6:00 PM, Monday to Friday, is strategically designed to enhance your skills in managing critical surgical emergencies.

### Learning Objectives:

#### 1. Acute Abdomen:

- Recognize and evaluate patients with acute abdominal pain.
- Develop skills in history taking, physical examination, and diagnostic workup.

#### 2. Intestinal Obstruction:

- Understand the etiology and clinical presentation of intestinal obstruction.
- Gain proficiency in the management, both conservative and surgical, of intestinal obstruction.

#### 3. Trauma Surgery and Resuscitation:

- Acquire knowledge and skills in the initial management of trauma patients.

- Participate in trauma resuscitation scenarios and learn trauma surgical techniques.

#### **4. Dealing with Head Injury and Spine Injury:**

- Recognize and manage head and spine injuries in the emergency setting.
- Learn the principles of neurosurgical interventions in trauma cases.

#### **5. Acute Limb Ischemia:**

- Identify and manage cases of acute limb ischemia promptly.
- Understand the importance of vascular assessment and emergent interventions.

#### **6. Acute Cholecystitis:**

- Recognize the clinical features of acute cholecystitis.
- Learn about the indications and techniques for emergency cholecystectomy.

#### **7. Dealing with Pneumothorax and Hemothorax:**

- Develop skills in the assessment and management of chest injuries.
- Perform chest tube insertion for pneumothorax and hemothorax.

#### **8. Dealing with Airway Compromise:**

- Acquire proficiency in assessing and managing patients with compromised airways.
- Learn advanced airway management techniques.

#### **9. Obstructed Hernia:**

- Recognize and manage cases of obstructed hernia.
- Understand the principles of hernia reduction and emergency hernia repair.

#### **10. Testicular Torsion:**

- Identify and urgently manage testicular torsion cases.
- Learn the surgical techniques for detorsion and orchidopexy.

#### **11. Urinary Retention:**

- Recognize and manage acute urinary retention.
- Gain skills in urinary catheterization and bladder decompression.

#### **12. Basics of Fracture Management:**

- Understand the principles of fracture assessment and classification.
- Participate in the hands-on management of fractures in the emergency setting



Table of Specification:

Learning Objectives	Specialty	Modes of Instruction	Mode of Assessment	Faculty Responsible
1. Acute Abdomen	General Surgery	- Case-based discussions	- OSCE	Senior Registrar on Call
		- Practical simulations and workshops	- Case presentations	Senior Registrar on Call
		- Clinical rotations and observation	- Written examinations	Senior Registrar on Call
2. Intestinal Obstruction	General Surgery	- Didactic lectures and seminars	- Skills assessment	Senior Registrar on Call
		- Grand rounds and clinical case reviews	- Clinical logbook	Senior Registrar on Call
		- Interactive group activities and problem-solving	- OSCE	Senior Registrar on Call
3. Trauma Surgery and Resuscitation	General Surgery/ Anesthesia	- Case-based discussions	- Objective Structured Clinical Examination (OSCE)	Senior Registrar on Call
		- Clinical rotations and observation	- Case presentations	Senior Registrar on Call
		- Trauma resuscitation simulations	- Written examinations	
4. Head Injury and Spine Injury	General Surgery/Orthopedics	- Didactic lectures and seminars	- Skills assessment	Senior Registrar on Call
		- Grand rounds and clinical case reviews	- Clinical logbook	Senior Registrar on Call
		- Neurosurgical intervention simulations	- OSCE	Senior Registrar on Call
5. Acute Limb Ischemia	Vascular Surgery	- Case-based discussions	- Objective Structured Clinical Examination (OSCE)	Senior Registrar on Call
		- Practical simulations and workshops	- Case presentations	Senior Registrar on Call
		- Vascular assessment and intervention observation	- Written examinations	Senior Registrar on Call
6. Acute Cholecystitis	General Surgery	- Didactic lectures and seminars	- Skills assessment	Senior Registrar on Call
		- Rounds and clinical case reviews	- Clinical logbook	Senior Registrar on Call

		- Emergency cholecystectomy simulations	- OSCE	Senior Registrar on Call
7. Pneumothorax and Hemothorax	General Surgery	- Case-based discussions	- Objective Structured Clinical Examination (OSCE)	Senior Registrar on Call

		- Practical simulations and workshops	- Case presentations	Senior Registrar on Call
		- Chest tube insertion / simulations	- Written examinations	Senior Registrar on Call
8. Airway Compromise	Anesthesia	- Didactic teaching	- Skills assessment	Senior Registrar on Call
		- Airway management simulation and observation	- Clinical logbook	Senior Registrar on Call
		- Advanced airway management simulations	- OSCE	Senior Registrar on Call
9. Obstructed Hernia	General Surgery	- Case-based discussions	- Objective Structured Clinical Examination (OSCE)	Senior Registrar on Call
		- Practical simulations and clinical work	- Case presentations	Senior Registrar on Call
		- Emergency hernia repair simulations	- Written examinations	Senior Registrar on Call
10. Testicular Torsion	General Surgery/ Urology	- Didactic lectures and seminars	- Skills assessment	Senior Registrar on Call
		- Clinical rotations and observation	- Clinical logbook	Senior Registrar on Call
		- Testicular torsion management simulations	- OSCE	Senior Registrar on Call
11. Urinary Retention	General Surgery/ Urology	- Case-based discussions	- Objective Structured Clinical Examination (OSCE)	Senior Registrar on Call
		- Practical simulations and workshops	- Case presentations	Senior Registrar on Call
		- Urinary catheterization simulations	- Written examinations	Senior Registrar on Call
12. Basics of Fracture Management	Orthopedics	- Didactic lectures and seminars	- Skills assessment	Senior Registrar on Call
		- Clinical rotations and observation	- Clinical logbook	Senior Registrar on Call
		- Hands-on fracture management workshops	- OSCE	Senior Registrar on Call

## Clinical Rotation Plan For all Batches

Day	Department
Monday	S1
Tuesday	S2
Wednesday	S1
Thursday	S2
Friday	S1

Final Year Teaching- Evening Emergencies (Emergency Surgery)- Allied Specialties				
Monday	Tuesday	Wednesday	Thursday	Friday
3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM	3:00-6:00 PM
Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call	Senior Registrar on Call

Following Core Topics need to be essentially covered in six weeks of general surgical rotation by Surgical Unit 1:

1. Examination of Swelling, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
2. Examination of Ulcer, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
3. Examination of Neck Swellings, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
4. Examination of Thyroid, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
5. Examination of Peripheral Neurovascular System, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
6. Examination of varicose veins & DVT, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
7. Examination of abdominal exam, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
8. Examination of Breast, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
9. Examination of Inguinoscrotal Area, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
10. Examination of Perianal Area, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management

Following Core Topics need to be essentially covered and form the learning objectives in six weeks of general surgical rotation by Surgical Unit 2:

11. Examination of Neck Swellings, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
12. Examination of parotid & Submandibular Swellings, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
13. Examination of Abdominal Swellings and Masses, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management



14. Examination of Inguinoscrotal Swellings, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
15. Examination of Peripheral Neurovascular System, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
16. Examination of Diabetic Foot, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
17. Examination of abdominal exam, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
18. Examination of Breast, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
19. Examination of Acute Abdomen, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management
20. Examination of Perianal Area, Differential Diagnosis, Understanding Clinical Reasoning, Diagnosis Making and Management

During the theater days, peri-operative care, Sterilization, CSSD, and Instrumentation would be covered apart from the operative clinical teaching.

In Skill Lab various psychomotor surgical skills would be practiced in a simulated environment.

The detail of the student Batch rotating in clinical wards is attached here in Appendix VIII. At the end of each rotation both at **Shalamar Teaching Hospital**, an assessment of clinical skills would be conducted in the Department of Surgery.

The detail of lectures to be delivered has been attached in this manual at the end. (Appendix XI).

During this year the students are tested for delivered lectures with MCQ based assessment papers (Cognitive Domain) conducted throughout the year and the results are shared with Department of Medical Education and Student Affairs through the software.

For the Online Modules (involving History Taking, Clinical Examination and Communication Skills), an OSPE is conducted (10 Stations) which would assess the Clinical Skills of the students through Cognitive, Psychomotor and Affective Domain. The OSPE has 30% Cognitive, 50% Psychomotor and 20% Affective domain. 10% would be reserved for attendance. The station detail for example has been given below:

<b>Station 1</b> Radiology Interactive	<b>Station 2</b> Urology Interactive	<b>Station 3</b> Orthopedics Interactive	<b>Station 4</b> Anesthesia Interactive	<b>Station 5</b> History Taking Interactive
<b>Station 6</b> Abdominal Examination Interactive	<b>Station 7</b> Neck Examination Interactive	<b>Station 8</b> Examination of Lump Interactive	<b>Station 9</b> Examination of Ulcer Interactive	<b>Station 10</b> General Surgery Short Cases Interactive

Surgical Unit heads are responsible for ensuring the overall coordination and conduction of assessments during Year 5.

**Mode of Teaching:** Lectures (Cognitive Domain)

Online Modules, Didactics & Bedside Teaching (Psychomotor & Affective Domain)

# Appendix I

Module/ System/ Organ	Topic	Subtopic	LEARNING OBJECTIVES	YEAR IN WHICH TO BE COVER ED	NAME OF MODULE IN WHICH TO BE COVERED	TEACHING / LEARNING STRATEGY						ASSESSMENT MODE					
				1	1	Lecture	Practical	Tutorial	Skills Lab	Clinical Rotation	Self Study	Other (Please specify)	MCQs	SEQs	OSPE	OSCE	Other (Please specify)
			<b>Third Year</b>														
			<b>At the end of 3rd year student should be able to:</b>														
			<b>Cognitive Domain</b>														
General Surgery	Surgical Ethics	Basic Principles	describe the principles and ethics in the discipline of surgery	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Neck Swelling	Clinical Examination	describe various steps of clinical examination of neck swelling - Overview Lecture	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Neck Swelling	Differential Diagnosis	differentiate various types of neck swellings on inspection- Overview Lecture	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Thyroid Examination	Clinical Examination	apply various steps of clinical examination for thyroid disorders	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Inguinal Hernia	Clinical Examination	describe various steps of clinical examination of an inguinal swelling	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Inguinoscrotal Swelling	Clinical Examination	recognize various types of inguinoscrotal swellings on clinical examination	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Abdominal Mass	Clinical Examination	describe the steps of examination for an abdominal mass	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Swelling and Ulcers	Clinical Examination	describe the steps of examination of swelling and an ulcer	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Breast Diseases	Clinical Examination	Describe steps of clinical examination of breast in order to identify the pathologies	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Breast Diseases	Differential Diagnosis	differentiate various problems of breast based on clinical findings	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Hemostasis	Shock	describe the pathophysiology of shock	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Hemostasis	Management of Shock	Develop a plan for initial management of shock	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Trauma	ATLS	describe the approach to a patient in surgical emergency	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Sterilization	methods of sterilization	differentiate infection, disinfection and sterilization in field of surgery	3	Basics of Surgery	Flipped Class Room									MCQs	SEQs	
General Surgery	Infections	Skin Infection	describe clinical features of infection of the skin and subcutaneous tissue and its preliminary management	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Surgical site infections	Management	define the surgical site infection and methods of its prevention	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Inflammation and infection	Pathophysiology	describe the pathophysiology of inflammation in surgery	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	
General Surgery	Infections	Types and Management	define infection, enlist type of infection and their initial management	3	Basics of Surgery	Interactive Lecture									MCQs	SEQs	





					General Surgery												
Clinical Examination	examination of Swellings	Differential Diagnosis of Swellings	differentiate different type of swellings according to protocols of clinical methods	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	Examination of Ulcers	Inspection of ulcer	inspect an ulcer according to the protocol of clinical examination	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	Examination of Ulcers	palpation of ulcer	palpate an ulcer according to the protocol of clinical examination	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	Examination of Ulcers	differential diagnosis of ulcers	diagnose various types of ulcer based on clinical examination	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	Examination of thyroid	differential diagnosis of thyroid	perform clinical examination for thyroid disorders	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of neck swellings	steps of examination	perform clinical examination for neck swellings	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of abdominal mass	steps of examination	perform clinical examination for abdominal mass	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of abdominal hernia	steps of examination	perform clinical examination for abdominal hernias	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of venous system	varicose veins/ DVT	perform clinical examination for venous disorders	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of lymphatic system	Lymphedema /lymphangitis	perform clinical examination for lymphatic disorders	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of breast	steps of examination	perform clinical examination for breast	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of peripheral arteries	acute and chronic ischemia	perform clinical examination for peripheral arterial disease	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Clinical Examination	examination of peripheral veins	varicose veins/ DVT	perform clinical examination for peripheral venous disease	3	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Musculoskeletal System	History Taking	History of Orthopedic pathology	elicit the history of an orthopedic patient	3	Clinical Rotation: Orthopedics					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE
Musculoskeletal System	Clinical Examination	Examination of knee and hip joint	perform clinical examination of normal and pathologic knee and hip joint	3	Clinical Rotation: Orthopedics					Ambulatory Teaching		OMP, Bedside Teaching					OSCE OSPE

Musculoskeletal System	Clinical Examination	examination of shoulder and hand/foot joints	perform clinical examination of normal and pathologic shoulder and hand/foot joint	3	Clinical Rotation: Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Clinical Examination	examination of spine	Perform clinical examination of normal and pathologic spine	3	Clinical Rotation: Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	History taking	history of diseases of urology	elicit the history of a urologic patient	3	Clinical Rotation: Urology						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	Clinical examination	Examination of urethra and prostate	evaluate a patient with bladder outlet obstruction/BPH	3	Clinical Rotation: Urology						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	Clinical evaluation	Urinary stones	evaluate a patient with urinary stones	3	Clinical Rotation: Urology						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	Clinical evaluation	UTI and causes	evaluate a patient with urinary tract infections	3	Clinical Rotation: Urology						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	History taking	urinary retention and D. Diagnosis	elicit the history of patient with urinary retention and discuss its etiology	3	Clinical Rotation: Urology													
Urinary System	History taking	Hematuria and Differential diagnosis	elicit history of patient with hematuria and discuss its etiology	3	Clinical Rotation: Urology													
Urinary System	History taking	Flank pain and differential diagnosis	elicit history taking of a patient with flank pain	3	Clinical Rotation: Urology													
Urinary System			recognize the differential utility of various modalities in urology	3	Clinical Rotation: Urology						ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Radiological imaging techniques	Types of imaging	application and limitations	summarize radiological imaging (X-ray/US/CT/MRI) principles, application and limitations	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE
Radiological imaging techniques	Types of imaging	Indications for various body parts	enlist indications of radiological imaging in various parts of the body	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE
Radiological imaging techniques	Types of imaging	Identify anatomical structures	identify anatomical structures in radiological studies	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE
Radiological imaging techniques	CT Scan	CT scan in acute trauma	identify acute emergency conditions in CT head	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE
Radiological imaging techniques	X-ray	anatomy of chest on xray	identify normal chest radiographic anatomy and enlist common pathologies	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE
Radiological imaging techniques	Types of imaging	Anatomy of abdomen on Xray, CT and MRI	identify normal abdominal radiographic anatomy and enlist common pathologies?	3	Clinical Rotation: Applied Radiology						Tutorial		OMP				OSCE	OSPE

Radiologic al imaging techniques	Xray	Anatomy of Limbs on Xray	identify normal extremity radiographic anatomy and enlist common pathologies	3	Clinical Rotation: Applied Radiology					Tutorial		OMP				OSCE	OSPE
Radiologic al imaging techniques	Ultrasound	Ultrasound abdomen	identify normal ultrasound (Abdomen/Obs) anatomy and enlist common pathologies	3	Clinical Rotation: Applied Radiology					Tutorial		OMP				OSCE	OSPE
			<b>Cognitive Domain</b>														
			<b>At The end of Fourth Year the student should be able to:</b>														
Fluid, Electrolytes and Acid Base Balance	Fluid Imbalance	Fluid Management	describe fluid management in a surgical patient	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Fluid, Electrolytes and Acid Base Balance	Electrolyte Imbalance		interpret electrolyte imbalance in a a surgical patient	4	Section 3: Basics of Surgery	Flipped Class Room							MCQs	SEQs			
Fluid, Electrolytes and Acid Base Balance	Arterial blood gases	Acidosis/Alkalosis	analyze ABGs and form the basis of acid base disorder management	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Nutrition	Types of Nutrition	Enteral Nutrition	describe various means of enteral nutritional support in a surgical patient	4	Section 3: Basics of Surgery	Flipped Class Room							MCQs	SEQs			
Nutrition	Types of Nutrition	Parenteral Nutrition and application	describe parenteral nutritional support and its practical application in a surgical patient	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Wound care	Wound healing	mechanism	describe the mechanism of wound healing and its clinical application	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Wound care	Wound healing	management of wound	describe the management of wound and wound care	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
			summarize the cellular and tissue diagnosis in surgery	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Minimal invasive surgery	Laprosco py	basic of laproscopic surgery	describe the basics of laparoscopy and laparoscopic surgery	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Musculoskeletal system	Imaging modalities	Role of imaging	identify and explain the role of imaging modalities in orthopedic surgery	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Basic Surgical skills	Skill acquisition	Knotting, suturings, instrumentations etc	describe various basic surgical skills for a medical graduate	4	Section 3: Basics of Surgery	Interactive Lecture							MCQs	SEQs			
Trauma Surgery	Approach to trauma patient	Assessment by ATLS	describe the approach to a patient with trauma	4	Section 4: Trauma Surgery	Interactive Lecture							MCQs	SEQs			









Anesthesia	General anesthesia	Components and stages of general anesthesia	summarize the various components and stages of general anesthesia	4	Section 8: Anesthesia	Interactive Lecture							MCQs	SEQs		
Anesthesia	Post operative complication	Enlist Complications and recognition	enlist various complications of patient in postoperative setting and explain their recognition	4	Section 8: Anesthesia	Interactive Lecture							MCQs	SEQs		
Anesthesia	CSSD	Components and functioning	enlist the components of CSSD, and describe its functioning	4	Section 8: Anesthesia	Interactive Lecture							MCQs	SEQs		
Trauma Surgery	Head Trauma	Assessment	describe the assessment of head injury	4	Section 9: Neurosurgery	Interactive Lecture							MCQs	SEQs		
Trauma Surgery	Head Trauma	Management	describe the management of head injury	4	Section 9: Neurosurgery	Interactive Lecture							MCQs	SEQs		
Trauma Surgery	Spine Trauma	Assessment and management	describe the assessment and management of spine injury	4	Section 9: Neurosurgery	Interactive Lecture							MCQs	SEQs		
Neuro Surgery	Brain Tumors	Enlist various tumors and management	enlist various brain tumors and explain basic principles of their management	4	Section 9: Neurosurgery	Interactive Lecture							MCQs	SEQs		
			<b>Psychomotor and Affective Domain</b>													
Clinical Examination	General Physical Examination	Pathologic findings and diagnosis	recognize pathologic findings of a general physical examination and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of swelling	Clinical Diagnosis	recognize and clinically reason a clinical finding of a swelling in order to make a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of swelling	Palpation	palpate and clinically reason a clinical finding of a swelling in order to make a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of swelling	Percussion and auscultation	percuss and auscultate and clinically reason a clinical finding of a swelling in order to make a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of swelling	Differential Diagnosis	differentiate different type of swellings and clinically reason	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of ulcer	Clinical Diagnosis	recognize and clinically reason a clinical finding of an ulcer in order to make a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of ulcer	Types of ulcers	clinically reason various types of ulcer based on clinical examination	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of thyroid	Clinical Diagnosis	perform clinical examination of a thyroid swelling, clinically reason and diagnose a disorder	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE
Clinical Examination	Examination of swelling	Clinical findings and diagnosis	differentiate and clinically reason clinical findings neck swellings	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching			OSCE OSPE

Clinical Examination	Abdominal mass	Pathologic findings and diagnosis	recognize pathologic findings of an abdominal mass and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Abdominal hernia	Pathologic findings and diagnosis	recognize pathologic findings of an abdominal hernia and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Extremity venous pathology	Pathologic findings and diagnosis	recognize pathologic findings of a extremity venous pathology and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Extremity lymphatic pathology	Pathologic findings and diagnosis	recognize pathologic findings of a extremity lymphatic pathology and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Examination of breast	Pathologic findings and diagnosis	recognize pathologic findings of a breast pathology and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Extremity arterial pathology	Pathologic findings and diagnosis	recognize pathologic findings of a extremity arterial pathology and reason to reach a diagnosis	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Ethics	Confidentiality	exhibit the professionalism to respect privacy of the patient	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Ethics	Maintenance of Confidentiality	exhibit the professionalism to maintain confidentiality of the patient	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Ethics	Counseling	interview a patient and attendant meaningfully to gather pertinent info about patient and disease condition	4	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Ethics	Consent	elicit consent for history and examination of a patient with burns	4	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Plastic Surgery	Burns	Extent of burn, rule of nine, Lund and Broder's Chart	calculate the extent of burn applying rule of nine, Lund and Broder's Chart	4	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Plastic Surgery	Examination of Burns	Degree and depth of burns	diagnose degree and depth of burn by clinical examination	4	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Plastic Surgery	Tissue Flaps	Classify and enlist their clinical utility	classify various tissue flaps and enlist their clinical utility	4	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal Surgery	Clinical Examination		perform clinical examination on an orthopedic patient	4	Clinical Rotation: Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal Surgery	Clinical Examination	Fracture of neck of femur and management	perform clinical examination on a patient with fracture neck of femur and develop a management plan	4	Clinical Rotation: Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE





			By the end of the Year 5, the student should be able to:															
Gastrointestinal System	Esophageal Disorders	Surgical anatomy and investigation	describe the surgical anatomy and investigations for esophageal disorders	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Gastrointestinal System	Esophageal Disorders	Assessment and management of benign disorders	summarize the assessment and management of benign esophageal disorders	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Gastrointestinal System	Esophageal Disorders	enlist functional disorders, and achalasia cardia	enlist various functional disorders of the esophagus and explain achalasia cardia	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Gastrointestinal System	Esophageal Disorders	Investigations for Dysphagia, staging of CA esophagus	advise appropriate investigations for dysphagia and staging of esophageal cancer	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Gastrointestinal System	Esophageal Disorders	Management options for CA esophagus	summarize management options for esophageal cancer	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Gastrointestinal System	Esophageal Disorders	Assessment and management of esophageal leak	describe the assessment and management of esophageal leak	5	Section 10: Esophageal Disorders	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid and Parathyroid gland	Surgical anatomy and physiology	summarize the surgical anatomy and physiology of thyroid and parathyroid gland	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid gland	Biochemical and radiological investigations	apply appropriately biochemical and radiological investigations for diagnosing thyroid disorder	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid gland	Clinical features of hypothyroidism and management	evaluate clinical features of hypothyroidism and enlist options of management	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid gland	Graves's disease and management	describe the diagnosing features of Grave's disease and summarize the management options	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid gland	Assessment and management of thyroid nodules	summarize the assessment and management of thyroid nodules	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Thyroid gland	Assessment and management of thyroid cancer	explain the assessment and management of thyroid cancer	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs
Endocrine System	Parathyroid gland	Subtypes of MEN syndrome, investigations and treatment	differentiate among subtypes of MEN syndrome, order appropriate investigation and enlist treatment options	5	Section 11: Endocrine Surgery	Interactive Lecture											MCQs	SEQs

























		pancreatitis and its complications			Spleen Surgery													
Endocrine System	Pancreas	Diagnosis of chronic pancreatitis	describe clinical features and diagnosis of chronic pancreatitis	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Endocrine System	Pancreas	Indications and complications of ERCP	describe ERCP it's indications and complications	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Endocrine System	Pancreas	Clinical features of CA pancreas	enumerate clinical features of CA pancreas	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	Diagnosis and treatment of CA pancreas	describe diagnosis and treatment of CA pancreas	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	anatomy of spleen	describe surgical anatomy of spleen	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	Functions of spleen	enumerate the functions of spleen	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	Trauma vs elective splenectomy	differentiate between trauma and elective splenectomy	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	Indications of splenectomy	enumerate indications of splenectomy	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Lymphatic System	Spleen	Complications of splenectomy	enlist complications of splenectomy	5	Section 20: Pancreatic & Spleen Surgery	Interactive Lecture									MCQs	SEQs		
Cardiovascular System	Cardiovascular surgery	Scope and clinical application	summarize the scope of cardiovascular surgery and its clinical applications	5	Section 21: Cardiovascular Surgery	Interactive Lecture									MCQs	SEQs		
Cardiovascular System	Acute limb ischemia	Assessment and management	assess a patient acute ischemic limb and devise an initial management plan	5	Section 21: Cardiovascular Surgery	Interactive Lecture									MCQs	SEQs		
Cardiovascular System	chronic limb ischemia	Assessment and management	assess a patient chronic ischemic limb and devise an initial management plan	5	Section 21: Cardiovascular Surgery	Interactive Lecture									MCQs	SEQs		
Cardiovascular System	aortic aneurysm	Assessment and management	assess a patient with ruptured aortic aneurysm and devise an initial management plan	5	Section 21: Cardiovascular Surgery	Interactive Lecture									MCQs	SEQs		
Cardiovascular System	Varicose veins	Assessment and management	assess a patient with varicose veins and devise an initial management plan	5	Section 21: Cardiovascular Surgery	Interactive Lecture									MCQs	SEQs		
Plastic Surgery	Plastic Surgery	Scope and application	summarize the scope of plastic surgery and its applications	5	Section 22: Plastic Surgery	Interactive Lecture									MCQs	SEQs		





					Neurosurge y													
Endocrine System	Endocrine disorders	Assessment and management	describe assessment and management of a patient with endocrine disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Gastrointestinal System	Upper GI disorders	Assessment and management	describe assessment and management of a patient with upper GI disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Gastrointestinal System	Lower GI disorders	Assessment and management	describe assessment and management of a patient with Lower GI disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Trauma Surgery	Trauma	Assessment and management	describe assessment and management of a patient with trauma	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Breast Surgery	Breast disorders	Assessment and management	describe assessment and management of a patient with breast disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Gastrointestinal System	Inguinoscrotal & Perianal Disorder	Assessment and management	describe assessment and management of a patient with inguinoscrotal & perianal disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Pediatric Surgery	Pediatric surgical disorders	Assessment and management	describe assessment and management of a patient with pediatric surgical disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Vascular Surgery	Vascular Disorders	Assessment and management	describe assessment and management of a patient with vascular disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
Hepatobiliary Surgery	Hepatobiliary disorder	Assessment and management	describe assessment and management of a patient with hepatobiliary disorder	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
General Surgery	Common surgical cases	Assessment and management	describe assessment and management of a patient with common surgical short cases	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
General Surgery	Common surgical cases	Radiological perspective	describe radiological perspective of common surgical conditions	5	Section 26: Revision Symposia	Interactive Lectures									MCQs	SEQs		
			<b>Psychomotor and Affective Domain</b>															
General Physical Examination	General Examination	Recognise pathological findings	recognize pathologic findings of a general physical examination and reason to reach a diagnosis	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE
General Surgery	Swellings	Diagnosis and management	diagnose a swelling and develop a management plan	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE
General Surgery	Neck swelling	Diagnosis and management	diagnose a neck swelling and devise a management plan	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE
General Surgery	Extremity swelling	Diagnosis and management	diagnose an extremity swelling and develop a management plan	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE
General Surgery	Swellings	Types and treatment	differentiate different type of swellings and discuss treatment options	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE
General Surgery	Ulcers	Types and treatment	differentiate different types of ulcers and devise a management plan accordingly	5	Clinical Rotation: General Surgery							Ambulatory Teaching		OMP, Bedside Teaching			OSCE	OSPE

General Surgery	Malignant Ulcers	Diagnosis and management	to diagnose malignant ulcer and discuss its management options	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Endocrine System	Primary Thyrotoxicosis	Assessment, investigate and management	to assess a case primary thyrotoxicosis, order appropriate investigations and formulate a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Endocrine System	Thyroid	Assessment, investigate and management	to diagnose a thyroid disorder, order relevant investigations and formulate initial management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Endocrine System	Solitary nodules	Assessment, investigate and management	assess a solitary nodule of thyroid, order appropriate clinical investigations and formulate a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Endocrine System	Multinodular goitre	Assessment, investigate and management	assess a multinodular goitre, order appropriate clinical investigations and formulate a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Endocrine System	Submandibular and parotid swellings	Assessment, investigate and management	differentiate various submandibular and parotid swellings, order relevant investigations and and formulate a treatment plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Abdominal mass	Diagnosis and treatment	diagnose an abdominal mass and develop relevant treatment strategy	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	History Taking	Biliary Colic	Elicit history of patient with biliary colic	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Clinical Examination	Biliary Colic	Perform examination of biliary colic patient	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Chronic cholecystitis	Differential Diagnosis	Diagnose chronic cholecystitis and enlist differential diagnosis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Chronic cholecystitis	Management	Discuss management of chronic cholecystitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	History Taking	Acute Cholecystitis	Elicit history of patient with acute cholecystitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Clinical Examination	Acute Cholecystitis	perform clinical examination on a patient with acute cholecystitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Acute Cholecystitis	Differential Diagnosis	Diagnose case of acute cholecystitis and enlist differential diagnosis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	Acute Cholecystitis	Management	formulate management plan of acute cholecystitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Hepatobiliary System	History Taking	Obstructive Jaundice	Elicit history of patient with obstructive jaundice	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE

Hepatobiliary System	Clinical Examination	Obstructive Jaundice	perform clinical examination of patient having obstructive jaundice	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Obstructive Jaundice	Diagnosis and enlist common causes	Diagnose case of obstructive jaundice and enlist common causes of this condition	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Clinical Examination	Percuss distended gall bladder	palpate distended gall bladder and demonstrate Courvoisier's Law	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Common bile duct stones	Management	formulate a management plan for common bile duct stones	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	History Taking	Acute pancreatitis	Elicit history of patient with acute pancreatitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Acute Pancreatitis	Diagnosis and investigations	Diagnose acute pancreatitis and orders appropriate investigations	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Acute Pancreatitis	Management	formulate a management plan for acute pancreatitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Gall stones Pancreatitis	Management	develop a management plan for gall stone pancreatitis	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	History Taking	Pseudocyst Pancreas	Elicit history of patient of pseudo cyst of pancreas	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Pseudocyst Pancreas	Diagnosis and management	Diagnose pseudocyst of pancreas and formulate a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Hepatobiliary System	Splenomegaly	Assessment, investigate and management	assess a patient with splenomegaly, order appropriate investigations and formulate a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
General Surgery	Hernia	Diagnosis and treatment	diagnose hernia and enlist its treatment options	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Vascular System	Extremity venous pathology	Diagnosis and management	diagnose extremity venous pathology and develop a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Vascular System	Extremity lymphatic pathology	Diagnosis and management	diagnose extremity lymphatic pathology and develop a management plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Breast Surgery	Breast pathology	Diagnosis and management	diagnose a breast pathology and discuss its management options	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Vascular System	Extremity arterial pathology	Diagnosis and management	diagnose extremity arterial pathology and develop treatment plan	5	Clinical Rotation: General Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE

Surgical Ethics	Breaking Bad News	Exhibit the effective communication skills	exhibit the effective communications skills for breaking a bad news	5	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Counseling	Demonstrate	demonstrate skills to effectively counsel a patient	5	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Clinical Conflicts	Demonstrate	demonstrate skills to resolve clinical conflicts within surgical domain	5	Clinical Rotation: General Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Clinical Examination	Breast Examination	Perform	perform clinical examination on a mannequin of breast	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Clinical Examination	Rectal Examination	Perform	perform per rectal examination on a mannequin	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Clinical Examination	Examination of stomas	Perform	perform examination stomas on a mannequin and discuss its indications and complications	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	IV cannulation	Perform	perform IV cannulation on a mannequin	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	Lumber Puncture	Perform	perform lumber puncture on a mannequin	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	NG insertion	Perform	perform NG Insertion on a mannequin	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	Foley's Catheterization	Perform	perform Foley's Catheterization on a mannequin	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	Knot Tying	Perform	perform knot tying on a model	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	Chest Intubation	Perform	perform chest intubation	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Surgical Skills	Suturing	Perform	perform suturing on a model	5	Clinical Rotation: General Surgery	Practical				Skill Lab							DOPS, OSPE
Trauma Surgery	Surgical Emergency	Assessment	assess a patient with trauma in surgical emergency	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Trauma Surgery	Triage	Perform	perform a triage of the patients based on severity of the injuries	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Trauma Surgery	Trauma	Assessment and plan for resuscitation	assess a patient with trauma and develop a plan for resuscitation of the patient	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE

Trauma Surgery	Pneumothorax	Assessment and Management	assess a patient with pneumothorax and describe a management plan	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Pain Lower abdomen	Assessment and investigations	assess a patient with pain lower abdomen and make a plan to investigate appropriately	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Peritonitis	Assessment and investigations	assess a patient with peritonitis in emergency, make a plan to investigate appropriately	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Peritonitis	Management plan	develop an initial management plan for a patient with peritonitis	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Intestinal obstruction	Assessment	assess a patient with intestinal obstruction, differentiate between small and large gut obstruction	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Intestinal obstruction	Advise appropriate investigations	advise appropriate investigations for patient with intestinal obstruction	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
General Surgery	Intestinal obstruction	Management plan	develop a plan of initial and definitive management of a patient with intestinal obstruction	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Counselling	Steps of Counselling	describe the steps of counseling a patient and attendants about the severity of condition	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Trauma Room	dynamics of team work	describe the dynamics of working within teams in emergency room environment	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Urinary System	Urinary retention	Assessment and Management	to assess a patient with urinary retention and describe the steps of initial management	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Fractures	Assessment and initial management	to assess a patient with fracture, describe initial management options and involve orthopedics team	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Trauma Surgery	Abdominal Trauma	Assessment, investigations and management	to assess a patient with abdominal trauma, investigate appropriately and describe initial management	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Neuro Surgery	Central Nervous System	Neurology team	to assess a patient with neurosurgical trauma, describe the steps of initial management and involving neuro team	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Gyneacology	Gyneacology	Gyneacology team	to assess a pregnant female with lower abdominal pain, order appropriate investigations and involve gynae team	5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
				5	Clinical Rotation: Emergency Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Burns	Inhalational burns	assessment and initial management	perform assessment of inhalational burn and formulate initial management plan	5	Clinical Rotation: Plastic Surgery					Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE

Plastic Surgery	Burns	Calculate fluid requirement	calculate fluid management of a burn patient	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Plastic Surgery	Burns	Initial Management	perform initial management of burns like deroofting of the blisters	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Clinical Examination	Examination of wounds	Perform	perform thorough clinical examination of wound	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Plastic Surgery	Skin grafting	Types and their applications	differentiate different types of skin grafting and their respective applications	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Plastic Surgery	Flaps	Types and their utility	classify various types of flaps and reason their clinical utility	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Surgical Ethics	Counseling of burn patient	Perform	Perform counseling of a burn patient	5	Clinical Rotation: Plastic Surgery						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	Osteoarthritic knee joint	Perform assessment and plan initial management	perform assessment of osteoarthritic knee joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	Sports injury of knee joint	Perform assessment and plan initial management	perform assessment of sports injury of knee joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	Osteoarthritic hip joint	Perform assessment and plan initial management	perform assessment of osteoarthritic hip joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	Sports injury of hip joints	Perform assessment and plan initial management	perform assessment of sports injury of hip joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	osteoarthritic shoulder joint	Perform assessment and plan initial management	perform assessment of osteoarthritic shoulder joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	sports injury of shoulder joint	Perform assessment and plan initial management	perform assessment of sports injury of shoulder joint and formulate initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Trauma Surgery	Polytrauma patient	Perform assessment	perform clinical assessment of a polytrauma patient	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE
Musculoskeletal System	Cast	Describe steps of application	describe steps of cast application	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching					OSCE	OSPE



Musculoskeletal System	Sling	Describe steps of application	describe steps of sling application	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Traction of distal extremity	Perform and describe indications	perform traction of distal extremity and describe its indications	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Spine injury	Perform assessment and plan initial management	perform clinical assessment of a patient with spine injury and develop an initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Cervical spine injury	Perform assessment and plan initial management	perform assessment of patient with cervical spine injury and develop initial management plan	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Musculoskeletal System	Fractures	Perform radiological assessment	perform basic radiological assessment of a patient with fracture	5	Clinical Rotation: Specialized Orthopedics						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Venous access	Perform assessment and enlist options	perform assessment for venous access and enlist the options for venous access	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Acute limb ischemia	Perform assessment and describe indications of embolectomy	perform assessment for acute ischemic limb and summarize the indications of embolectomy	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Vascular bypass	various options and grafts	summarize various vascular bypass options and grafts	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Vascular steal phenomenon and Raynaud's phenomenon	Describe	describe vascular steal phenomenon, Raynaud's phenomenon and disease	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Burger's Disease	Plan management	formulate a management plan for Burger's disease	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	CABG	Indications and steps	summarize the indications and procedural steps of CABG	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Perioperative care in Cardiac ICU	Summarize	summarize perioperative care within cardiac ICU	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	VTE	Diagnosis and management	summarize the steps of diagnosing VTE and its management	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Vascular System	Carotid, Intestinal and renal artery	Presentation and investigations	describe the presentation of carotid, intestinal and renal artery stenosis and investigating them appropriately	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE

Vascular System	Neck, chest and extremity vascular injury	Assessment and initial management	summarize the assessment and initial management of neck, chest and extremity vascular injury	5	Clinical Rotation: Cardiovascular Surgery						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	WHO patient Safety List	Components	to summarize the components of WHO patient safety checklist in perioperative setting	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Infection control protocol in ICU	Describes the process	apply infection control protocols in ICU setting	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	ABGs and Acid Base Disorder	Principles and interpretation	summarize the principles of ABGs analysis and to interpret acid base disorder	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Non Invasive Ventilation	Steps and Indications	summarize the steps of noninvasive ventilation and its indications	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Invasive Ventilation	Describe modes	describe modes of invasive ventilation	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Nutritional requirement in ICU patient	Calculate	calculate nutritional requirements of an ICU patient	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Ventilated patient	Steps of management	summarize the steps of management of a ventilated patient	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	BLS in collapsed	Steps	summarize the steps of BLS in a collapsed patient	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Criteria of admission	Enlist Criteria	to enlist the criteria of admission in an ICU	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Septic shock	Pathophysiology and management	summarize the pathophysiology and management of septic shock	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Inotrope use	Indications	to recognize the indications of inotrope use and the summarize their use in ICU setting	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Brain Death	Enlist the criteria	to enlist the criteria of brain death	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Critically ill patient	Enlist rapid sequence induction	to enlist the rapid sequence induction of critically ill patient	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	Critically ill patient	Summarize the process	to summarize the process of critically ill patient	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Perioperative Care	ARDS	Pathophysiology and management	describe the pathophysiology of ARDS and summarize steps of its management	5	Clinical Rotation: Critical Care						Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE
Surgical Ethics	Breaking bad news	Elicit the process	to elicit the process of effectively breaking a bad news	5	Clinical Rotation: Critical Care					Skill Lab	Ambulatory Teaching		OMP, Bedside Teaching				OSCE	OSPE

# Appendix II

## NORMAL STRUCTURE

### Theory

CODE	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	TOPIC
	<b>GROSS ANATOMY</b>	<b>TOTAL HOURS = 14</b>	
CV-A- 001	Justify the clinical picture of superior mediastinum syndrome anatomically	Integrate with Surgery	Mediastinum
<b>CV-A- 002</b>	Describe the surgical significance of pericardial sinus	Integrate with Surgery	<b>Pericardium</b>
CV-A- 003	Identify the salient features of heart and great vessels on CT/ MRI	Integrate with Radiology	Heart
<b>CV-A- 004</b>	Describe the surgical importance of pericardial sinus	Surgery	<b>Pericardial sinus</b>
<b>CV-A- 005</b>	Discuss the anatomical principles of Varicose Veins	Surgery	<b>Varicose Veins</b>
<b>CV-A- 005</b>	Discuss the anatomical principles of Varicose Veins	Surgery	<b>Varicose Veins</b>

## NORMAL FUNCTION

### Theory

CODE	MEDICAL PHYSIOLOGY	<b>Total Hours = 75</b>	
	<b>SPECIFIC LEARNING OBJECTIVES</b>	<b>DISCIPLINE</b>	<b>TOPIC</b>
CV-P- 026	Identify various symptoms and signs of DVT	General Medicine, Surgery	Venous thrombo-embolism
	Identify various symptoms and signs of pulmonary embolism		

	Outline management strategies		
CV-P- 028	Justify the clinical picture of superior mediastinum syndrome anatomically	Surgery	Superior mediastinum Syndrome

## NORMAL STRUCTURE

### Theory

CODE	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	TOPIC
	GROSS ANATOMY	TOTAL HOURS =30	
Re-A- 003	Describe the anatomical correlates of Thoracic inlet syndrome & Thoracic outlet syndrome	Integrate with Surgery	Thoracic Cavity
Re-A- 004	Describe the anatomical correlates of supernumerary cervical rib.	Integrate with Surgery	Rib Cage
Re-A- 005	Describe the anatomical correlates of intercostal incisions	Integrate with Surgery	Intercostal space
Re-A- 007	Describe the anatomical correlates of median sternotomy.	Integrate with Surgery	Sternum
	Describe the presentation of sternal fractures and correlate it anatomically	Integrate with Orthopedics	
Re-A- 014	Describe the anatomical correlates of chest tube intubation	Integrate with surgery	Lungs
Re-P- 020	Enlist the causes of Pneumothorax	Surgery	Pneumothorax
	Describe the signs and symptoms of Pneumothorax		
Re-P- 021	Enlist the causes of Pleuritis		Pleuritis
Re-P- 028	Describe ABC in a trauma patient	Surgery	First Aid in Surgical Patients

### 1st Year (Lecture Hall No 4, 2nd floor)

sr	Name	Time	Date	Facilitator
1	Superior mediastinum syndrome	08:00 to 09:00	12.10.23	Dr Maaz Ul Hassan
2	Pneumothorax and pleuritis	9:00 to 10:00	09.11.2023	Dr Maaz Ul Hassan
3	First aid (ABC) in trauma	08:00 to 09:00	14.11.2023	Dr Rizwan Ahmad Khan

### First Year Clinical Rotation Schedule Surgery & Allied

No of students	9	9	9	8	8	8	8	8	8	
Days	Date	A1	A2	A3	A4	A5	A6	A7	A8	A9
<u>1</u>	TBD	Anesth	Ortho	Cardio	Plastic	Urology	Gyne 1	Gyne 2	S1	S2
<u>2</u>	TBD	S2	Anesth	Ortho	Cardio	Plastic	Urology	Gyne 1	Gyne 2	S1
<u>3</u>	TBD	S1	S2	Anesth	Ortho	Cardio	Plastic	Urology	Gyne 1	Gyne 2
<u>4</u>	TBD	Gyne 2	S1	S2	Anesth	Ortho	Cardio	Plastic	Urology	Gyne 1
<u>5</u>	TBD	Gyne 1	Gyne 2	S1	S2	Anesth	Ortho	Cardio	Plastic	Urology
<u>6</u>	TBD	Urology	Gyne 1	Gyne 2	S1	S2	Anesth	Ortho	Cardio	Plastic
<u>7</u>	TBD	Plastic	Urology	Gyne 1	Gyne 2	S1	S2	Anesth	Ortho	Cardio
<u>8</u>	TBD	Cardio	Plastic	Urology	Gyne 1	Gyne 2	S1	S2	Anesth	Ortho
<u>9</u>	TBD	Ortho	Cardio	Plastic	Urology	Gyne 1	Gyne 2	S1	S2	Anesth



## RESPIRATORY-I Module Committee

	Name	Department	Ext
Module Leader:	Dr. Kiran Nameos	BIOCHEMISTRY	454
Member:	Dr. Amber Ilyas	ANATOMY	309
Member:	Dr. Aasia Kanwal	PHYSIOLOGY	403

## YEAR COMMITTEE FIRST YEAR 22-2023

Chair Person	Prof. Dr. Anila Jaleel
Members:	Dr. Maazul Hassan
	Dr. Ambreen Khalid
	Dr. M. Ashar Waheed Khan
	Dr. M. Luqman Farrukh Nagi
	Dr. Maria Shireen
	Dr. Khalid Mahmood Cheema
	Dr. Sarosh Saleem
	Dr. Uzma Waseem
	Dr Safana Sadaf
	Dr Alia Shabbir
Co-opted Members:	CR & GR

## Mentors List 1<sup>st</sup> Year 2022-23

Group	Name	Roll No
Group - 1	Prof. Saad Bashir Malik	01-10,
Group - 2	Dr. Maryam Riaz Tarar	11-20,
Group - 3	Dr. Samar Asim	21-30
Group - 4	Dr. Sadaf Saleem Uppal	31-40
Group - 5	Prof. Adeela Shahid	41-50
Group - 6	Dr. Saadia Shahzad	51-60
Group - 7	Dr. Saleem uz Zaman Adhami	61-70
Group - 8	Dr. Rizwan Ahmad Khan	71-80
Group - 9	Dr. M Kashif Butt	81-90
Group - 10	Dr. Nausheen Saeed	91-100
Group - 11	Prof. Dr. Abdul Karim	101-110
Group - 12	Dr. Uzma Sarwar	111-120
Group - 13	Dr. Asher Waheed	121-130
Group - 14	Dr. Ambreen Khalid	131-140
Group - 15	Dr. Sundus Iftikhar	141-151

**Module: CVS 9<sup>th</sup> - 13<sup>th</sup> Oct 2023 Week 7**

**Peripheral arterial diseases**

Day	8:00 - 9:00	9:00 - 10:00	15 min	10:15 - 11:15	11:15 - 12:15	12:15 - 1:15	45 min	2:00 - 3:00	3:00 - 4:00	
Monday	Hyperlipidemia I <b>Biochemistry</b> Dr. Haleema	HTN, heart failure & Valvular heart diseases <b>Cardiology</b> Dr. Mohsin Abbas		Circulatory Shock & Its Types-II <b>Physiology</b> Dr. Hina	Hyperlipidemia II <b>Biochemistry</b> Dr. Haleema	Interventions for Risk factors Management-II <b>Community Medicine</b> Dr. Luqman		Infarction; types, causes & pathophysiology of shock <b>Pathology</b> Dr. Naureen Saeed	English Batch A	SDL Batch B & C
Tuesday	Posterior Mediastinum-II <b>GROSS ANATOMY</b>	Peripheral arterial diseases & venous thromboembolism <b>Medicine</b> Dr. Iffat Aqeel		<b>BIOCHEMISTRY TUTORIAL</b>		Personal, psychosocial & vocational issues <b>Behavioral Sciences/C.M</b> Ms. Mariam		Anti-Anginal Drugs <b>Pharmacology</b> Prof. Shabbir Bhatti	English Batch B	SDL Batch A & C
Wednesday	<b>PHYSIOLOGY TUTORIAL</b>			Pericardial, myocardial & endocardial diseases <b>Cardiology</b> Dr. M. Usman	<b>BIOCHEMISTRY</b>	<b>PHYSIOLOGY</b>	<b>ANATOMY</b>	Posterior Mediastinum-III <b>GROSS ANATOMY</b>	English Batch C	SDL Batch A & B
Thursday	Superior mediastinum syndrome <b>Surgery</b> Prof. Maaz ul Hassan	Development of Venous system-II <b>(Embryology) ANATOMY</b> Dr. Sarah Khalid		CT/MRI of heart & great vessels, cardiac catheterization <b>Radiology</b> Dr. Usman Farooq	Interpretation of Lab reports Batch C	JVP Batch A	Ospe <b>Gross Anatomy</b>	Circulatory Shock & Its Types-II <b>Physiology</b> Dr. Hina I	Developing an argument <b>Bioethics/PER</b> LDr. Sarosh	

# Module: MSK

7<sup>th</sup> - 11<sup>th</sup> Aug2023

# Week 6

Day	8:00 - 9:00	9:00 - 10:00	15 min	10:15 - 11:15	11:15 - 12:15	12:15 - 1:15	45 min	2:00 - 3:00	3:00 - 4:00	
Monday	Anterior Compartment of Thigh-I (Demo/Dissection)	Biochemistry		Embryology- Anomalies of Musculoskeletal System (Dr. Sarah Khalid)	Community medicine			Anterior Compartment of Thigh-II (Demo/Dissection)		
Tuesday	NMJ Blockers & S stimulators Dr. Hina Physiology	Adductor Canal (Demo/Dissection)		Tutorial Biochemistry		Psychosocial impact of diseases & its management Behave science		Medial compartment of thigh (Demo/Dissection)		
Wednesday	Physiology Tutorial			Histology- Cartilage I (Dr.Uzma Waseem)	Anatomy practical	Biochem practical		Clinical rotation III ORTHO	Gluteal region (Demo/Dissection)	
					Cartilage					
Thursday	Hip Joint-I (Demo/Dissection)	Biochemistry		Embryology- Development of Limbs (Dr. Sarah Khalid)	Cartilage				Hip Joint-II (Demo/Dissection)	
Friday	Smooth muscle features and types Dr. Hina Physiology	Cartilage growth & repair Patho	Electrical activity of Smooth muscles Dr. Hina Physiology	Cartilage			Posterior Compartment of Thigh (Demo/Dissection)			

# Appendix III

**2nd Year MBBS Planner 2023-2024****Lecture Hall No 3**

sr	Name / topic	Date	Time
1	Peptic Ulcer Disease / Dr Sadaf Ishaque	23-06-2023	8:00 - 9:00
2	Abdominal Hernias / Dr Sadaf Ishaque	18-08-2023	8:00 - 9:00

**Clinical Rotation (Abdominal quadrants & Incisions ) (Skill Lab)**

sr	Name	Date	Time
1	Dawood Arshad	31-07-2023	02:00-03:00
2	Dr Rooh ul Ain	1/8/2023	02:00-03:00
3	Dr Akif Munir	3/8/2023	02:00-03:00
4	Dr Amarah	4/8/2023	02:00-03:00

**Clinical Rotation (inguinal Hernias )(Skill Lab)**

sr	Name	Date	Time
1	Dr Dawood Arshad	7/8/2023	02:00-03:00
2	Dr Rooh ul Ain	8/8/2023	02:00-03:00
3	Dr Amara Younus	9/8/2023	02:00-03:00
4	Dr Dawood Arshad	11/8/2023	02:00-03:00

**2nd Year MBBS Planner 2023-2024****Lecture Hall No 3**

sr	Name	Presenter	Date	Day	Time
1	Spinal injuries and Spinal Shock	Dr Usman Sarwar	9/5/2023	Tuesday	9:00 - 10:00
2	Assessment of Peripheral Neuropathy	Dr Muhammad Ali	12/5/2023	Friday	8:00 - 9:00
3	Assessment of Peripheral Neuropathy	Dr Rizwan Ahmad Khan	19-05-2023	Friday	8:00 - 9:00

**2nd Year MBBS Planner 2023-2024****Lecture Hall No 3**

sr	Name	Presenter	Date	Day	Time
1	Renal Ureteric calculi	Prof Irfan Nazir	1/9/2023	Friday	9:00 - 10:00
2	Urological Tumors	Dr Shahid Ali	5/9/2023	Tuesday	8:00 - 9:00
3	Urinary Retention	Prof Irfan Nazir	15-09-2023	Friday	8:00 - 9:00
4	Haematuria	Dr Farooq Hameed	21-09-2023	Thursday	8:00 - 9:00



## MODULE 2 : ENDOCRINE

**Module Coordinator:**

Week 1												
Second Year 2023												
Date: 06-03-2023 to 10-03-2023												
Day	8:00 - 9:00	9:00 - 9:55	9:55 - 10:15	10:15 - 11:10	11:10 - 12:05	12:15 - 01:20	1:20 - 02:00	2:00 - 04:00				
Monday	Assessment Anatomy		TEA BREAK	Assessment Anatomy			LUNCH/PRAAYER BREAK	Anatomy	Physio	Biochem (2-3) DSL (3-4)	skills lab (2-3 English (3-4 )	
								Batch A Salivary glands	Batch B VII Cranial nerve	Batch C Estimation of serum Calcium	ENT Batch D VII Cranial nerve & Bells palsy	
Tuesday	Assessment Physiology			Assessment Physiology				Batch B	Batch C VII Cranial nerve	Batch D Estimation of serum Calcium	ENT Batch A VII Cranial nerve & Bells palsy	
Wednesday	Assessment Biochemistry			Assessment Biochemistry				Batch C	Batch D VII Cranial nerve	Batch A Estimation of serum Calcium	ENT Batch B VII Cranial nerve & Bells palsy	
Thursday	Classification of Hormones <b>Biochemistry</b> Dr. Sadaf	7 <sup>th</sup> , 5 <sup>th</sup> cranial nerve Prof. Sarah		Classification & synthesis of Adrenal cortical hormones <b>Physiology</b> Prof. Adeela	Oral cavity, tongue & palate Demo /dissection			Batch D	Batch A VII Cranial nerve	Batch B Estimation of serum Calcium	ENT Batch C VII Cranial nerve & Bells palsy	
								2:30 - 3:15		3:15- 4:00		
Friday	Medicine <b>CLINICAL</b>	Surgery Thyroid Goiter Dr Rooh ul Ain	Functions of Aldosterone <b>Physiology</b> Prof. Adeela		Hormones Signaling <b>Biochemistr</b> y Dr. Sadaf	8 <sup>th</sup> & 12th cranial nerves	Islamiat			Self study		

Module Coordinator:

Week 2 Second Year 2023 lecture hall 3 Date: 13-03-2023 to 17-03-2023

Day	8:00 - 9:00	9:00 - 9:55	9:55 - 10:15	10:15 - 11:10	11:10 - 12:05	12:05 - 01:20	1:20 - 02:00	2:00 - 04:00			
Monday	Microscopic anatomy of pituitary Dr. Uzma	Functions of cortisol <b>Physiology</b> Prof. Adeela	TEA BREAK	ADH and Growth hormone <b>Biochemistry</b> Dr. Sadaf	Nose & 1st cranial nerve <b>Demo/Dissection</b>	PBL	LUNCH/PRAYER BREAK	Anatomy	Physio	Biochem (2-3) DSL (3-4)	skills lab (2-3) English (3-4) LH 3)
								Batch A pituitary gland	Batch B Colour Vision	Batch C Estimation of serum uric acid	Eye CN III, IV, VI Batch D
Tuesday	Adrenal Cortical Hormone <b>Biochemistry</b> Dr. Sadaf	Conns Syndrome <b>Physiology</b> Prof. Adeela		Tutorial Physiology		Community medicine		Batch B	Batch C Colour Vision	Batch D Estimation of serum uric acid	Eye III, IV, VI CN Batch A
Wednesday	Behavioral sciences	Addison's disease, Cushing's synd <b>Physiology</b> Prof. Adeela		Adrenal Cortical Hormone <b>Biochemistry</b> Dr Sadaf	Pteryopalatine fossa & paranasal sinuses <b>Demo/Dissection</b>	Insulin synthesis, release <b>Physiology</b> Prof. Adeela		Batch C	Batch D Colour Vision	Batch A Estimation of serum uric acid	Eye III, IV, VI CN Batch B
Thursday	Development of pituitary gland	Functions of insulin <b>Physiology</b> Prof. Adeela		Biochemistry Tutorial	DSL	Cervical vertebrae & hyoid bone <b>Demo/Dissection</b>			Batch A Colour Vision	Batch B Estimation of serum uric acid	Eye CN III, IV, VI Batch C
Friday	Medicine <b>CLINICAL</b>	Surgery Solitary Nodule thyroid Dr Rooh Ul Ain		Adrenal Medulla <b>Biochemistry</b> Dr Sadaf	Deep cervical fascia <b>Demo/Dissection</b>	2:30 - 3:15		3:15- 4:00			
						Islamiat		Self study			

**MODULE 2 : ENDOCRINE**

Module Coordinator:

Week 3 Second Year 2023 lecture hall 3 Date: 20-03-2023 to 24-03-2023

Day	8:00 - 9:00	9:00 - 9:55	9:55 - 10:15	10:15 - 11:10	11:10 - 12:05	12:05 - 01:20	1:20 - 02:00	2:00 - 04:00				
Monday	SUBSTAGE 2		TEA BREAK	Microscopic anatomy of thyroid & parathyroid DR. UZMA	Insulin and Glucagon <b>Biochemistry</b> Dr. Sadaf	PBL	LUNCH/PRAYER BREAK	Anatomy	Physio	Biochem (2-3) DSL (3-4)	skills lab (2-3 English (3-4) LH3	
				Batch A thyroid & parathyroid gland	Batch B	Batch C Revision		EYE Light reflex Batch D				
Tuesday	Diabetes Mellitus <b>Biochemistry</b> Dr. Sadaf	Functions of insulin <b>Physiology</b> Prof. Adeela		Tutorial Physiology		Community medicine		Batch B	Batch C	Batch D Revision	EYE Light reflex Light reflex Batch A	
Wednesday	Development of thyroid & parathyroid	Glucagon, Glucose regulation <b>Physiology</b> Prof. Adeela		<b>Tutorial Biochemistry</b> Dr. Sadaf	Posterior triangle of neck & 11 <sup>th</sup> cranial nerve <b>Demo/Dissection</b>			Batch C	Batch D	Batch A Revision	EYE Light reflex Light reflex Batch B	
Thursday	PAKISAN DAY			PAKISAN DAY				PAKISAN DAY				
Friday	Medicine <b>CLINICAL</b>	<b>BEHAVIORAL SCIENCES</b> <b>CLINICAL</b>			Thyroid Hormone <b>Biochemistry</b> Dr Sadaf	Anterior triangle of neck & Submandibular region <b>Demo/Dissection</b>		2:30 - 3:15		3:15- 4:00		
					Batch D	Batch A Practical Test 1		Batch B Revision	Light reflex Batch C			

**MODULE 2 : ENDOCRINE**

Module Coordinator:

Week 4 Second Year 2023 Date: 27-03-2023 to 31-03-2023

Day	8:00 - 9:00	9:00 - 9:55	9:55 - 10:15	10:15 - 11:10	11:10 - 12:05	12:05 - 01:20	1:20 - 02:00	2:00 - 04:00			
Monday	Microscopic anatomy of adrenal & pancreas <b>Dr. Uzma</b>	Parathyroid Hormone <b>Biochemistry</b> <b>Dr. Sadaf</b>	TEA BREAK	DM <b>Physiology</b> <b>Prof. Adeela</b>	Development of adrenal pancreas <b>Prof. Sarah</b>	PBL	LUNCH/PRAYER BREAK	Anatomy	Physio	Biochem	skills lab (2-3 English (3-4 )
								Batch A Adrenal	Batch B Physiology Tutorial	Batch C Practical Test 1	SURGERY Thyroid gland Dr Dawood Arshad <b>Batch D</b>
Tuesday	<b>CLINICAL</b>	Hyper & Hypoglycemia <b>Physiology</b> <b>Prof. Adeela</b>		Tutorial Physiology		Community medicine		Batch B Adrenal	Batch C Physiology Tutorial	Batch D Practical Test 1	SURGERY Thyroid gland Dr Rooh ul ain <b>Batch A</b>

<b>Wednesday</b>	Thyroid Hormone <b>Physiology Dr. Hina</b>	<b>Tutorial Biochemistry</b>		MOA of thyroid hormone <b>Physiology Dr. Hina</b>	<b>Pharynx</b> Demo/Dissection			<b>Batch C</b> Adrenal	<b>Batch D</b> Physiology Tutorial	<b>Batch A Practical Test 1</b>	<b>SURGERY</b> Thyroid gland Dr Amara <b>Batch B</b>
<b>Thursday</b>	11 <sup>th</sup> & 10 <sup>th</sup> Cranial nerves	Actions of thyroid hormone <b>Physiology Dr. Hina</b>		Purine Metabolism 1 <b>Biochemistry Dr. Sadaf</b>	Behavioral sciences	<b>Larynx</b> Demo/Dissection		<b>Batch D</b> Adrenal	<b>Batch A</b> Physiology Tutorial	<b>Batch B Practical Test 1</b>	<b>SURGERY</b> Thyroid gland Dr Atif <b>Batch C</b>

Module Coordinator Dr. Sadaf Saleem Uppal

Module Exam: SEQs: 35, MCQs: 45, Viva: 20 (Total: 100)

Total hours Biochemistry = Lec & Tut = 18; pract: 6; total: 24

**MODULE 3 : NEUROSCIENCE**

Module Coordinator:

**Week 1** **Second Year 2023** **Date: 10-04-2023 to 14-04-2023**

Day	8:00 - 9:00	9:00 - 9:55	9:55 - 10:15	10:15 - 11:10	11:10 - 12:05	12:05 - 01:20	1:20 - 02:00	2:00 - 04:00				
Monday	Assessment Physiology		TEA BREAK	Assessment Physiology			LUNCH/PRAAYER BREAK	Anatomy	Physio	Biochem	skills lab (2-3 English (3-4 )	
								Batch A SPINAL CORD	Batch B	Batch C	Batch D	
Tuesday	Assessment Anatomy		TEA BREAK	Assessment Anatomy			LUNCH/PRAAYER BREAK	Batch B SPINAL CORD	Batch C	Batch D	Batch A	
Wednesday	Assessment Biochemistry			Assessment Biochemistry				Batch C SPINAL CORD	Batch D	Batch A	Batch B	
Thursday			TEA BREAK				LUNCH/PRAAYER BREAK	Batch D SPINAL CORD	Batch A	Batch B	Batch C	
Friday									2:30 - 3:15		3:15- 4:00	
								Islamiat				



# Appendix IV

## 3<sup>rd</sup> Year Lecture 2023 (Lecture Hall 1)

Sr	Topic	Date	
1	Peri operative Care of Surgical Patient <b>(Prof Khawja M Azim)</b>	15-02-2023	<b>12:30-1:30</b>
2	Surgical Ethics <b>(Prof Khawja M Azim)</b>	22-02-2023	
3	Shock & Pathophysiology <b>(Prof Khawja M Azim)</b>	01-03-2023	
4	Types of Shock & Management of Shock <b>(Prof Khawja M Azim)</b>	08-03-2023	
5	Sterilization & Disinfection <b>(Prof Khawja M Azim)</b>	15-03-2023	
6	Approach to Surgical patient in Emergency <b>(Dr Tariq Saeed)</b>	22-03-2023	
7	Wound Healing <b>(Dr Tariq Saeed)</b>	29-03-2023	
8	Wound Healing and Wound Care <b>(Dr Tariq Saeed)</b>	05-04-2023	
9	Basic Surgical Skills and Anastmosis <b>(Dr Tariq Saeed)</b>	12-04-2023	
10	Cellular and Tissue Diagnosis in Surgery <b>(Dr Tariq Saeed)</b>	19-04-2023	
11	Revision Lecture	26-04-2023	
12	Inflamations and Infection 1 <b>(Prof Humad Naeem Rana )</b>	10-05-2023	
13	Inflammation and Infection 2 <b>(Prof Humad Naeem Rana )</b>	17-05-2023	
14	Hemorrhage & Hemostasis -Pathology <b>(Prof Humad Naeem Rana )</b>	24-05-2023	
16	Hemorrhage & Hemostasis - Clinical Applications <b>(Prof Humad Naeem Rana )</b>	31-05-2023	
17	Introduction to Laparoscopy <b>(Dr Rizwan Ahmad Khan )</b>	07-06-2023	
18	Surgical aspect of Arterial Disease <b>(Dr Rizwan Ahmad Khan )</b>	14-06-2023	
19	Metabolic Response to Trauma <b>(Dr Rizwan Ahmad Khan )</b>	21-06-2023	
20	Surgical aspect of Venous Disease <b>(Dr Rizwan Ahmad Khan )</b>	26-07-2023	
21	Fluid & Electrolyte Balance-1 <b>(Dr Talat Waseem)</b>	02-08-2023	
22	Fluid & Electrolyte Balance-2 <b>(Dr Talat Waseem)</b>	09-08-2023	
23	Acid Base Balance <b>(Dr Talat Waseem)</b>	16-08-2023	
24	Nutritional Support-Enteral <b>Dr Talat Waseem)</b>	23-08-2023	
25	Nutritional Support-Parenteral <b>Dr Talat Waseem)</b>	30-08-2023	
26	Surgery Assessment	06-09-2023	

27	Infection of Skin & subcutaneous Tissues (Dr Maaz ul Hassan )	13-09-2023	
29	Blood Products ( Dr Maaz ul Hassan )	27-09-2023	
30	Surgical Site Infection & Prevention (Dr Maaz ul Hassan )	04-10-2023	
31	Principles of Transfusion (Dr Aamir Waseem )	11-10-2023	
32	Complications of Blood Transfusion (Dr Amir Bahsir)	18-11-2023	
33	Imaging Modalities in Orthopedics Dr. Muhammad Ali	25-11-2023	11:30-12:30
34	Anti-sepsis, Asepsis and Health Care Personnel at risk (Dr Sadaf Ishaq)	01-11-2023	11:30-12:30
35	<b>Revision Lecture</b>	08-11-2023	11:30-12:30
36	Surgery Assessment	15-11-2023	11-30-12:30

# Appendix V

**Shalamar Medical & Dental College Clinical  
Rotation - 3<sup>rd</sup> year MBBS 2022 - 2023**

Batches			A		B		C		D	
Sub Batches			A1	A2	B1	B2	C1	C2	D1	D2
Weeks	Days	Date	2021001 to 2021021	2021022 to 2021041	2021042 to 2021062	2021063 to 2021083	2021084 to 2021103	2021104 to 2021123	2021124 to 202143	2021144 to 2021155 All Old Roll No.
1	5	13 <sup>th</sup> Feb - 17 <sup>th</sup> Feb 2023	Med SMDC	Med SMDC	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE
2	5	20 <sup>th</sup> Feb - 24 <sup>th</sup> Feb 2023	Med SMDC	Med SMDC	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE
3	5	27 <sup>th</sup> Feb - 03 <sup>rd</sup> Mar 2023	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	EYE	Peads FFH
4	5	06 <sup>th</sup> Mar - 10 <sup>th</sup> Mar 2023	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	EYE	Peads FFH
5	5	13 <sup>th</sup> Mar - 17 <sup>th</sup> Mar 2023	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	B. Science	Peads FFH
6	5	20 <sup>th</sup> Mar - 24 <sup>th</sup> Mar 2023	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	B. Science	Peads FFH
7	5	27 <sup>th</sup> Mar - 31 <sup>st</sup> Mar 2023	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study	Peads FFH	ENT FFH
8	5	03 <sup>rd</sup> Apr - 07 <sup>th</sup> Apr 2023	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study	Peads FFH	ENT FFH
9	5	10 <sup>th</sup> Apr - 14 <sup>th</sup> Apr 2023	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	Dermatology	Gynae FFH/ Self-Study	Peads FFH	B. Science
10	5	17 <sup>th</sup> Apr - 21 <sup>st</sup> Apr 2023	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE	Peads FFH	B. Science
11	5	24 <sup>th</sup> Apr - 28 <sup>th</sup> Apr 2023	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE	Med SMDC	Med SMDC
12	5	01 <sup>st</sup> May - 05 <sup>th</sup> May 2023	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	EYE	Peads FFH	Med SMDC	Med SMDC
13	5	08 <sup>th</sup> May - 12 <sup>th</sup> May 2023	Surg-FFH	Surg-SMDC	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	EYE	Peads FFH	Med SMDC	Med SMDC
14	5	15 <sup>th</sup> May - 19 <sup>th</sup> May 2023	Surg-FFH	Surg-SMDC	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	B. Science	Peads FFH	Med SMDC	Med SMDC
15	5	22 <sup>nd</sup> May - 26 <sup>th</sup> May 2023	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study	B. Science	Peads FFH	Med SMDC	Med SMDC
16	5	29 <sup>th</sup> May - 02 <sup>nd</sup> June 2023	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study	Peads FFH	ENT FFH	Med SMDC	Med SMDC
17	5	05 <sup>th</sup> June - 09 <sup>th</sup> June 2023	Gynae SMDC/ Self-Study	Dermatology	Dermatology	Gynae FFH/ Self-Study	Peads FFH	ENT FFH	Med SMDC	Med SMDC
18	5	12 <sup>th</sup> June - 16 <sup>th</sup> June 2023	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE	Peads FFH	B. Science	Med SMDC	Med SMDC
19	5	19 <sup>th</sup> June - 23 <sup>rd</sup> June 2023	Gynae SMDC/ Self-Study	Dermatology	ENT FFH	EYE	Peads FFH	B. Science	Surg-SMDC	Surg-FFH
20-23	20	26 <sup>th</sup> June - 21 <sup>st</sup> July 2023	<b>Summer Break</b>							
24	5	24 <sup>th</sup> July - 28 <sup>th</sup> July 2023	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	EYE	Peads FFH	Med SMDC	Med SMDC	Surg-SMDC	Surg-FFH
25	5	31 <sup>st</sup> July - 04 <sup>th</sup> Aug 2023	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	EYE	Peads FFH	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH
26	5	07 <sup>th</sup> Aug - 11 <sup>th</sup> Aug 2023	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study	B. Science	Peads FFH	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH
27	5	14 <sup>th</sup> Aug - 19 <sup>th</sup> Aug 2023	Dermatology	Gynae FFH/ Self-Study	B. Science	Peads FFH	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC

Batches			A		B		C		D	
Sub Batches			A1	A2	B1	B2	C1	C2	D1	D2
Weeks	Days	Date	2021001 to 2021021	2021022 to 2021041	2021042 to 2021062	2021063 to 2021083	2021084 to 2021103	2021104 to 2021123	2021124 to 2021143	2021144 to 2021155 All Old Roll No.
28	5	21 <sup>st</sup> Aug - 25 <sup>th</sup> Aug 2023	Dermatology	Gynae FFH/ Self-Study	Peds FFH	ENT FFH	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC
29	5	28 <sup>th</sup> Aug - 01 <sup>st</sup> Sep 2023	Dermatology	Gynae FFH/ Self-Study	Peds FFH	ENT FFH	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty
30	5	04 <sup>th</sup> Sep - 08 <sup>th</sup> Sep 2023	ENT FFH	EYE	Peds FFH	B. Science	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty
31	5	11 <sup>th</sup> Sep - 15 <sup>th</sup> Sep 2023	ENT FFH	EYE	Peds FFH	B. Science	Med SMDC	Med SMDC	Gynae SMDC/ Self-Study	Dermatology
32	5	18 <sup>th</sup> Sep - 22 <sup>nd</sup> Sep 2023	EYE	Peds FFH	Med SMDC	Med SMDC	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology
33	5	25 <sup>th</sup> Sep - 29 <sup>th</sup> Sep 2023	EYE	Peds FFH	Med SMDC	Med SMDC	Surg-SMDC	Surg-FFH	Gynae SMDC/ Self-Study	Dermatology
34	5	02 <sup>nd</sup> Oct - 06 <sup>th</sup> Oct 2023	B. Science	Peds FFH	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study
35	5	09 <sup>th</sup> Oct - 13 <sup>th</sup> Oct 2023	B. Science	Peds FFH	Med SMDC	Med SMDC	Surg-SMDC/Sub Specialty	Surg-FFH	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study
36	5	16 <sup>th</sup> Oct - 20 <sup>th</sup> Oct 2023	Peds FFH	ENT FFH	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC	Gynae FFH/ Self-Study	Gynae SMDC/ Self-Study
37	5	23 <sup>rd</sup> Oct - 27 <sup>th</sup> Oct 2023	Peds FFH	ENT FFH	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC	Dermatology	Gynae FFH/ Self-Study
38	5	30 <sup>th</sup> Oct - 03 <sup>rd</sup> Nov 2023	Peds FFH	B. Science	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study
39	5	06 <sup>th</sup> Nov - 10 <sup>th</sup> Nov 2023	Peds FFH	B. Science	Med SMDC	Med SMDC	Surg-FFH	Surg-SMDC/Sub Specialty	Dermatology	Gynae FFH/ Self-Study
40	5	13 <sup>th</sup> Nov - 17 <sup>th</sup> Nov 2023	<b>Self-Study</b>							

**Note:** ENT FFH Batch will attend the clinical rotation every Wednesday and Friday at ENT Department SMDC.

Clinical Rotation batch of Gynae/Obs will attend the rotation for 90 mints and remaining 30 mints are of self-study.

**No of Days in a week = 5**

**No of hours to attend per day = 2**

**No of hours completed by one student per week: 5x2 = 10 hours**

**Total No of academic weeks of Clinical Rotation including Academics breaks = 40 Weeks**

# Appendix VI



Weeks	Dates	By 4 <sup>th</sup> Yr Committee Chair Prof. Dr. Sania Shuja																	
		BATCH A						BATCH B						BATCH C					
		A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
1	27 Mar to 31 Mar	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Orth	Uro	Psyc	Peads	Ob/Gyn	Eye	Eye	ENT	ENT
2	3 April to 7 April	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Orth	Uro	Psyc	Ob/Gyn	Peads	Eye	Eye	ENT	ENT
3	10 April to 14 April	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Psyc	Orth	Uro	Peads	Ob/Gyn	Eye	Eye	ENT	ENT
4 & 5	17 April to 28 April	ACADEMIC BREAK (17 <sup>th</sup> April to 28 <sup>th</sup> April 2023)																	
6	1 <sup>st</sup> May to 5 May	Elective Rotation 4 Weeks			M2	M2	M2	S2	S1-S2	S1	Psyc	Orth	Uro	Ob/Gyn	Peads	Eye	Eye	ENT	ENT
7	8 May to 12 May				M2	M2	M2	S2	S1-S2	S1	Uro	Psyc	Orth	Eye	Eye	ENT	ENT	Peads	Ob/Gyn
8	15 May to 19 May				M2	M2	M2	S2	S1-S2	S1	Uro	Psycs	Orth	Eye	Eye	ENT	ENT	Ob/Gyn	Peads
9	22 May to 26 May				M1	M1	M1	Orth	Uro	Psyc	S1	S1-S2	S2	Eye	Eye	ENT	ENT	Peads	Ob/Gyn
10	29 May to 2 June	M1	M1	M1	Elective Rotation 4 Weeks			Orth	Uro	Psyc	S1	S1-S2	S2	Eye	Eye	ENT	ENT	Ob/Gyn	Peads
11	5 June to 9 June	M1	M1	M1				Psyc	Orth	Uro	S1	S1-S2	S2	ENT	ENT	Peads	Ob/Gyn	Eye	Eye
12	12 June to 16 June	M1	M1	M1				Psyc	Orth	Uro	S2	S1-S2	S1	ENT	ENT	Ob/Gyn	Peads	Eye	Eye
13	19 June to 23 June	M2	M2	M2				Uro	Psyc	Orth	S2	S1-S2	S1	ENT	ENT	Peads	Ob/Gyn	Eye	Eye
14 & 15	26 June to 7 July	ACADEMIC BREAK (26 <sup>th</sup> June to 7 <sup>th</sup> July 2023)																	
16	10 July to 14 July	M2	M2	M2	M1	M1	M1	Uro	Psyc	Orth	S2	S1-S2	S1	ENT	ENT	Ob/Gyn	Peads	Eye	Eye
17	17 July to 21 July	Peads	Ob/Gyn	Eye	Eye	ENT	ENT	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Orth	Uro	Psyc
18	24 July to 28 July	Ob/Gyn	Peads	Eye	Eye	ENT	ENT	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Orth	Uro	Psyc
19	31 July to 4 Aug	Peads	Ob/Gyn	Eye	Eye	ENT	ENT	M1	M1	M1	M2	M2	M2	S1	S1-S2	S2	Psyc	Orth	Uro
20	7 Aug to 11 Aug	Ob/Gyn	Peads	Eye	Eye	ENT	ENT	M1	M1	M1	M2	M2	M2	S2	S1-S2	S1	Psyc	Orth	Uro
21	14 Aug to 18 Aug	Eye	Eye	ENT	ENT	Peads	Ob/Gyn	Elective Rotation 4 Weeks			M2	M2	M2	S2	S1-S2	S1	Uro	Psyc	Orth
22	21 Aug to 25 Aug	Eye	Eye	ENT	ENT	Ob/Gyn	Peads				M2	M2	M2	S2	S1-S2	S1	Uro	Psyc	Orth
23	28 Aug to 1 <sup>st</sup> Sep	Eye	Eye	ENT	ENT	Peads	Ob/Gyn				M1	M1	M1	Orth	Uro	Psyc	S1	S1-S2	S2
24	4 Sep to 8 Sep	Eye	Eye	ENT	ENT	Ob/Gyn	Peads				M1	M1	M1	Orth	Uro	Psyc	S1	S1-S2	S2
25	11 Sep to 15 Sep	ENT	ENT	Peads	Ob/Gyn	Eye	Eye	M1	M1	M1	Elective Rotation 4 Weeks			Psyc	Orth	Uro	S1	S1-S2	S2
26	18 Sep to 22 Sep	ENT	ENT	Ob/Gyn	Peads	Eye	Eye	M1	M1	M1				Psyc	Orth	Uro	S2	S1-S2	S1
27	25 Sep to 29 Sep	ENT	ENT	Peads	Ob/Gyn	Eye	Eye	M2	M2	M2				Uro	Psyc	Orth	S2	S1-S2	S1
28	2 <sup>nd</sup> Oct to 6 Oct	ENT	ENT	Ob/Gyn	Peads	Eye	Eye	M2	M2	M2				Uro	Psyc	Orth	S2	S1-S2	S1
29	9 Oct to 13 Oct	S1	S1-S2	S2	Orth	Uro	Psyc	Peads	Ob/Gyn	Eye	Eye	ENT	ENT	Elective Rotation 4 Weeks			M2	M2	M2
30	16 Oct to 20 Oct	S1	S1-S2	S2	Orth	Uro	Psyc	Ob/Gyn	Peads	Eye	Eye	ENT	ENT				M2	M2	M2
31	23 Oct to 27 Oct	S1	S1-S2	S2	Psyc	Orth	Uro	Peads	Ob/Gyn	Eye	Eye	ENT	ENT				M2	M2	M2

Weeks	Dates	By 4 <sup>th</sup> Yr Committee Chair Prof. Dr. Sania Shuja																	
		BATCH A						BATCH B						BATCH C					
		A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
32	30 Oct to 3 <sup>rd</sup> Nov	S2	S1-S2	S1	Psyc	Orth	Uro	Ob/Gyn	Peads	Eye	Eye	ENT	ENT				M2	M2	M2
33	6 Nov to 10 Nov	S2	S1-S2	S1	Uro	Psyc	Orth	Eye	Eye	ENT	ENT	Peads	Ob/Gyn	M1	M1	M1	Elective Rotation 4 Weeks		
34	13 Nov to 17 Nov	S2	S1-S2	S1	Uro	Psyc	Orth	Eye	Eye	ENT	ENT	Ob/Gyn	Peads	M1	M1	M1			
35	20 Nov to 24 Nov	Orth	Uro	Psyc	S1	S1-S2	S2	Eye	Eye	ENT	ENT	Peads	Ob/Gyn	M1	M1	M1			
36	27 Nov to 1 <sup>st</sup> Dec	Orth	Uro	Psyc	S1	S1-S2	S2	Eye	Eye	ENT	ENT	Ob/Gyn	Peads	M1	M1	M1			
37	4 Dec to 8 Dec	Psyc	Orth	Uro	S1	S1-S2	S2	ENT	ENT	Peads	Ob/Gyn	Eye	Eye	M1	M1	M1	M2	M2	M2
38	11 Dec to 15 Dec	Psyc	Orth	Uro	S2	S1-S2	S1	ENT	ENT	Ob/Gyn	Peads	Eye	Eye	M1	M1	M1	M2	M2	M2
39	18 Dec to 23 Dec	Uro	Psyc	Orth	S2	S1-S2	S1	ENT	ENT	Peads	Ob/Gyn	Eye	Eye	M2	M2	M2	M1	M1	M1
40	25 Dec to 29 Dec	Uro	Psyc	Orth	S2	S1-S2	S1	ENT	ENT	Ob/Gyn	Peads	Eye	Eye	M2	M2	M2	M1	M1	M1

see next page

**Note:**

1. Students on Clinical rotations in Medicine will go to Shalamar Hospital on Mondays, Tuesdays & Wednesdays and will go to FFH on Thursdays & Fridays.
2. Students on Clinical rotations in Surgery - Sub Specialties will go to Radiology Department on Fridays.
3. **Please pay attention that during General Surgery rotation students will go for 3 weeks each in S1 & S2 as indicated. Also 2nd and 5th batches of A, B & C will split in two with first half going to S1 & second half to S2 as indicated by "-" in the specified boxes.**
4. Elective rotation is indicated as "ELECTIVE ROTATION 4 WEEKS". Please ask for additional information to Medical Education.

Reviewed by: **Dr. Mehroosh Shakeel** (Assistant Prof)

Approved by: **Dr. Sania Shuja** (HOD Pathology)  
Chairperson 4<sup>th</sup> Year Committee

# Appendix VII

## Fourth year Lecture List Surgery & Allied 2022-2023

Date	Time	Days	Topic	Teacher
28-03-2023	8:00 to 8:50	Tuesday	Fluid Management in a Surgical Patient	Prof Khawaja M Azim
30-03-2023	12:30 - 1:20	Thursday	Laparoscopy and laparoscopic surgery	Prof Asghar Ali
04-04-2023	8:00 to 8:50	Tuesday	Electrolyte imbalance in a surgical patient	Prof Khawaja M Azim
06-04-2023	12:30 - 1:20	Thursday	Approach to a patient in surgical emergency	Prof Asghar Ali
11-04-2023	8:00 to 8:50	Tuesday	Analysis of ABGs and basics of acid base disorder management	Prof Maaz Ul Hassan
13-04-2023	12:30 - 1:20	Thursday	Basic surgical skills for medical Graduate: An overview	Prof Asghar Ali
18-04-2023	8:00 to 9:00	Tuesday	Break	
20-04-2023	1:20 to 2:10	Thursday	Break	
25-04-2023	8:00 to 9:00	Tuesday	Break	
27-04-2023	1:20 to 2:10	Thursday	Break	
02-05-2023	8:00 to 9:00	Tuesday	Nutrition in a Surgical patient: Enteral nutritional support	Prof Maaz Ul Hassan
04-05-2023	1:20 to 2:10	Thursday	<b>Annual Debates and Declamation</b>	
09-05-2023	8:00 to 9:00	Tuesday	Parenteral nutritional support and its practical application	Prof Maaz Ul Hassan
11-05-2023	1:20 to 2:10	Thursday	Introduction to Orthopedics and its Scope	Dr Muhammad Saleem
16-05-2023	8:00 to 9:00	Tuesday	Cellular and Tissue Diagnosis	Dr Rizwan Ahmad Khan
18-05-2023	1:20 to 2:10	Thursday	Classification of types of fractures, fracture healing and factors responsible for it	Dr Muhammad Saleem
23-05-2023	8:00 to 9:00	Tuesday	Principles of fracture management & Fracture Tibia	Dr Muhammad Saleem
25-05-2023	1:20 to 2:10	Thursday	Wound healing/Care and its clinical application	Prof Humad Naeem Rana
30-05-2023	8:00 to 9:00	Tuesday	Pre Operative Assessment	Dr Amir Bashir
01-06-2023	1:20 to 2:10	Thursday	Compartment syndrome	Prof. M.A Wajid
06-06-2023	8:00 to 9:00	Tuesday	Indications and methods of administering local anesthesia	Prof Muhammad Mubeen
08-06-2023	1:20 to 2:10	Thursday	Club foot and developmental dysplasia Hip	Dr Muhammad Saleem
13-06-2023	8:00 to 9:00	Tuesday	Indications and methods for administering neuroaxial blocks	Dr Itrat Kazmi
15-06-2023	1:20 to 2:10	Thursday	Open fractures and their Management	Dr Usman Sarwar
20-06-2023	8:00 to 9:00	Tuesday	Surgery Assessment-I	Dr Maaz ul Hassan

22-06-2023	1:20 to 2:10	Thursday	Osteoarthritis and Rheumatoid Arthritis	Prof. M.A Wajid
27-06-2023	8:00 to 9:00	Tuesday	Summar Break	
29-06-2023	1:20 to 2:10	Thursday	Summar Break	
04-07-2023	8:00 to 9:00	Tuesday	Summar Break	
06-07-2023	1:20 to 2:10	Thursday	Summar Break	
11-07-2023	8:00 to 9:00	Tuesday	Components and stages of general anesthesia with monitoring	Dr Amir Bashir
13-07-2023	1:20 to 2:10	Thursday	Seronegative and seropositive inflammatory arthropathies	Dr. Imran
18-07-2023	8:00 to 9:00	Tuesday	Postoperative care unit	Dr Itrat Kazmi
20-07-2023	1:20 to 2:10	Thursday	Acute and chronic septic arthropathies	Dr Usman Sarwar
25-07-2023	8:00 to 9:00	Tuesday	CSSD and its functioning	Prof Muhammad Mubeen
27-07-2023	1:20 to 2:10	Thursday	Ashura	
01-08-2023	8:00 to 9:00	Tuesday	ICU & HDU Setting	Dr Amir Waseem
03-08-2023	1:20 to 2:10	Thursday	Overview of metabolic bone disorders	Prof. M.A Wajid
08-08-2023	8:00 to 9:00	Tuesday	Anaphylactic shock	Dr Amir Waseem
10-08-2023	1:20 to 2:10	Thursday	Arts Gala + Film Festival	
15-08-2023	8:00 to 9:00	Tuesday	Anesthesia Lecture Assessment	Prof Muhammad Mubeen
17-08-2023	1:20 to 2:10	Thursday	Benign and Malignant Bone Neoplasms	Dr Ali Shiekh
22-08-2023	8:00 to 9:00	Tuesday	Approach to a patient with trauma	Dr Talat Waseem
24-08-2023	1:20 to 2:10	Thursday	Low back pain/Neck pain management	Dr Imran Manzoor
29-08-2023	8:00 to 9:00	Tuesday	Management of a trauma patient	Dr Talat Waseem
31-08-2023	1:20 to 2:10	Thursday	Pathology of osteoarthritis of hip and knee	Dr Usman Sarwar
05-09-2023	8:00 to 9:00	Tuesday	Secondary survey in assessment and trauma patient	Dr Talat Waseem
07-09-2023	1:20 to 2:10	Thursday	Fracture of clavicle & Humerus	Dr Ali Shiekh
12-09-2023	8:00 to 9:00	Tuesday	Prehospital management of a trauma patient	Dr Talat Waseem
14-09-2023	1:20 to 2:10	Thursday	Fractures of neck of femur & Shaft	Dr Muhammad Saleem
19-09-2023	8:00 to 9:00	Tuesday	Blunt abdominal trauma	Dr Talat Waseem
21-09-2023	1:20 to 2:10	Thursday	Fractures of elbow and wrist	Dr Ali Shiekh

26-09-2023	8:00 to 9:00	Tuesday	Penetrating abdominal trauma	Dr Talat Waseem
28-09-2023	1:20 to 2:10	Thursday	12 <sup>th</sup> Rabi ul Awal	
03-10-2023	8:00 to 9:00	Tuesday	Extremity trauma	Dr Talat Waseem
05-10-2023	1:20 to 2:10	Thursday	Assessment and Management of spine injury 1	Prof Tariq Salahudin
10-10-2023	8:00 to 9:00	Tuesday	Head injury- Initial Support	Dr Talat Waseem
12-10-2023	1:20 to 2:10	Thursday	Assessment and Management of spine injury 2	Prof Tariq Salahudin
17-10-2023	8:00 to 9:00	Tuesday	Spine injury- Initial Support	Dr Talat Waseem
19-10-2023	1:20 to 2:10	Thursday	Brain Tumors	Prof Tariq Salahudin
24-10-2023	8:00 to 9:00	Tuesday	Renal stones and Acute Renal colic	Dr Irfan Nazir
26-10-2023	1:20 to 2:10	Thursday	Closing Ceremony Annual Sports	
31-10-2023	8:00 to 9:00	Tuesday	Kidney Tumors	Dr Shahid Ali
02-11-2023	1:20 to 2:10	Thursday	Head injury: Neurosurgical Perspective	Prof Tariq Salahudin
07-11-2023	8:00 to 9:00	Tuesday	Testicular Torsion & Varicoelies	Dr Irfan Nazir
09-11-2023	1:20 to 2:10	Thursday	Head injury: Neurosurgical Perspective- Management	Prof Tariq Salahudin
13/11/2023	8:00 to 9:00	Monday	Approach to a patient with skin ulcer & Differnetials of an Ulcer	Dr Rizwan Ahmad Khan
14-11-2023	8:00 to 9:00	Tuesday	Etiology of Bladder outlet Obstruction	Dr Irfan Nazir
16-11-2023	1:20 to 2:10	Thursday	Polytrauma patient & pelvic fractures	Prof. M.A Wajid
20/11/2023	8:00 to 9:00	Monday	Common Cutaneous and Subcutaneous Lesions	Dr Rizwan Ahmad Khan
21-11-2023	8:00 to 9:00	Tuesday	Bladder Tumors	Dr Irfan Nazir
23-11-2023	1:20 to 2:10	Thursday	Orthopedics Assessment	Dr Muhammad Saleem
27/11/2023	8:00 to 9:00	Monday	Assesment and Overview of Melanoma Managment	Dr Rizwan Ahmad Khan
28-11-2023	8:00 to 9:00	Tuesday	Prostate Tumors	Dr Shahid Ali
30-11-2023	1:20 to 2:10	Thursday	Renal trauma grades, Renal trauma, Etiology and Ureteric trauma	Dr Irfan Nazir
12.04.2023	8:00 to 9:00	Monday	Assessment Surgery-II	Dr Rizwan Ahmad Khan
05-12-2023	8:00 to 9:00	Tuesday	Truma (Assessment)	Dr Talat Waseem
07-12-2023	1:20 to 2:10	Thursday	Bladder Trauma & Urethral injury	Dr Irfan Nazir
12-12-2023	8:00 to 9:00	Tuesday	Bladder stones	Dr Farooq Ahmed

14-12-2023	1:20 to 2:10	Thursday	Upper urinary & Lower urinary tract infections	Dr Shahid Ali
19-12-2023	8:00 to 9:00	Tuesday	Infection of Testes & Scrotum	Dr Farooq Ahmed
21-12-2023	1:20 to 2:10	Thursday	Hydronephrosis & Etiology	Dr Farooq Ahmed
26-12-2023	8:00 to 9:00	Tuesday	Laboratory Investigations & Radiologic Investigations	Dr Farooq Ahmed
28-12-2023	1:20 to 2:10	Thursday	Urology Assessment	Dr Irfan Nazir



# Appendix VIII

### Final Year Clinical Rotation Schedule 2022

GROUPS		A						B						C					
S.NO		A1	A2	A3	A4	A5	A6	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
1	6TH March 23 to 10th March 23	G1	G1	G2	G2	P	P	M	M	M	M	M	M	S	S	S	S	S	S
2	13TH March 23 to 17th March 23	G1	G1	G2	G2	P	P	M	M	M	M	M	M	S	S	S	S	S	S
3	20TH March 23 to 24th March 23	G1	G1	G2	G2	P	P	M	M	M	M	M	M	S	S	S	S	S	S
4	27TH March 23 to 31st March 23	G1	G1	G2	G2	P	P	M	M	M	M	M	M	S	S	S	S	S	S
5	3rd April 23 to 7th April 23	G2	G2	P	P	G1	G1	M	M	M	M	M	M	S	S	S	S	S	S
6	10TH April 23 to 14th April 23	G2	G2	P	P	G1	G1	M	M	M	M	M	M	S	S	S	S	S	S
7	17TH April 23 to 21st April 23	G2	G2	P	P	G1	G1	M	M	M	M	M	M	S	S	S	S	S	S
8	24TH April 23 to 28th April 23	G2	G2	P	P	G1	G1	M	M	M	M	M	M	S	S	S	S	S	S
9	01st May 23 to 05th May 23	P	P	G1	G1	G2	G2	M	M	M	M	M	M	S	S	S	S	S	S
10	8th May 23 to 12th May 23	P	P	G1	G1	G2	G2	M	M	M	M	M	M	S	S	S	S	S	S
11	15th May 23 to 19th May 23	P	P	G1	G1	G2	G2	M	M	M	M	M	M	S	S	S	S	S	S
12	22nd May 23 to 26th May 23	P	P	G1	G1	G2	G2	M	M	M	M	M	M	S	S	S	S	S	S
13	29th May 23 to 2nd June 23	Academic Break																	
14	5th June 23 to 9th June 23	M	M	M	M	M	M	S	S	S	S	S	S	G1	G1	G2	G2	P	P
15	12th June 23 to 16th June 23	M	M	M	M	M	M	S	S	S	S	S	S	G1	G1	G2	G2	P	P
16	19th June 23 to 23rd June 23	M	M	M	M	M	M	S	S	S	S	S	S	G1	G1	G2	G2	P	P
17	26th June 23 to 30th June 23	Summer Break																	
18	3rd July 23 to 7th July 23																		
19	10th July 23 to 14th July 23																		
20	17th July 23 to 21st July 23																		
21	24th July 23 to 28th July 23	M	M	M	M	M	M	S	S	S	S	S	S	G1	G1	G2	G2	P	P
22	31st July 23 to 4th Aug 23	M	M	M	M	M	M	S	S	S	S	S	S	G2	G2	P	P	G1	G1
23	7th Aug 23 to 11th Aug 23	M	M	M	M	M	M	S	S	S	S	S	S	G2	G2	P	P	G1	G1
24	14th Aug 23 to 18th Aug 23	M	M	M	M	M	M	S	S	S	S	S	S	G2	G2	P	P	G1	G1

25	21st Aug 23 to 25th Aug 23	M	M	M	M	M	M	S	S	S	S	S	S	G2	G2	P	P	G1	G1
26	28th Aug 23 to 1st Sep 23	M	M	M	M	M	M	S	S	S	S	S	S	P	P	G1	G1	G2	G2
27	4th Sep 23 to 8th Sep 23	M	M	M	M	M	M	S	S	S	S	S	S	P	P	G1	G1	G2	G2
28	11th Sep 23 to 15th Sep 23	M	M	M	M	M	M	S	S	S	S	S	S	P	P	G1	G1	G2	G2
29	18th Sep 23 to 22nd Sep 23	M	M	M	M	M	M	S	S	S	S	S	S	P	P	G1	G1	G2	G2
30	25th Sep 23 to 29th Sep 23	S	S	S	S	S	S	G1	G1	G2	G2	P	P	M	M	M	M	M	M
31	2nd Oct 23 to 6th Oct 23	S	S	S	S	S	S	G1	G1	G2	G2	P	P	M	M	M	M	M	M
32	9th Oct 23 to 13th Oct 23	S	S	S	S	S	S	G1	G1	G2	G2	P	P	M	M	M	M	M	M
33	16th Oct 23 to 20th Oct 23	S	S	S	S	S	S	G1	G1	G2	G2	P	P	M	M	M	M	M	M
34	23rd Oct 23 to 27th Oct 23	S	S	S	S	S	S	G2	G2	P	P	G1	G1	M	M	M	M	M	M
35	30th Oct 23 to 3rd Nov 23	S	S	S	S	S	S	G2	G2	P	P	G1	G1	M	M	M	M	M	M
36	6th Nov 23 to 10th Nov 23	S	S	S	S	S	S	G2	G2	P	P	G1	G1	M	M	M	M	M	M
37	13th Nov 23 to 17th Nov 23	S	S	S	S	S	S	G2	G2	P	P	G1	G1	M	M	M	M	M	M
38	20th Nov 23 to 24th Nov 23	S	S	S	S	S	S	P	P	G1	G1	G2	G2	M	M	M	M	M	M
39	27th Nov 23 to 1st Dec 23	S	S	S	S	S	S	P	P	G1	G1	G2	G2	M	M	M	M	M	M
40	4th Dec 23 to 8th Dec 23	S	S	S	S	S	S	P	P	G1	G1	G2	G2	M	M	M	M	M	M
41	11th Dec 23 to 15th Dec 23	S	S	S	S	S	S	P	P	G1	G1	G2	G2	M	M	M	M	M	M
<b>PREP LEAVE FOR SEND UPS</b>																			

Medicine	M
Surgery	S
Obs. & Gynae	G1 G2
Pediatrics	P

# Appendix IX

## Final year Lecture List Surgery & Allied Department Wise

Venue: Lecture Hall#6, Faculty Building, Eye Department

serial NO#	Lec No.	Day	Date	Time	Topic	Consultant
<b>General Surgery Prof. Khawaja M Azim (Final Year)</b>						
1	1	Monday	06/03/2023	(8:00AM-9:00AM)	Surgical Anatomy & Investigations of Esophagus	Prof Khawaja M Azim
2	2	Monday	13/03/2023	(8:00AM-9:00AM)	Benign Neoplasm of Esophagus	Prof Khawaja M Azim
3	3	Monday	20/03/2023	(8:00AM-9:00AM)	Functional Disorders of Esophagus-Achalasia	Prof Khawaja M Azim
4	4	Monday	27/03/2023	(8:00AM-9:00AM)	CA Esophagus- Investigations	Prof Khawaja M Azim
5	5	Monday	03/04/2023	(8:00AM-9:00AM)	CA Esophagus- Management	Prof Khawaja M Azim
6	6	Monday	10/04/2023	(8:00AM-9:00AM)	Esophageal Trauma & perforation	Prof Khawaja M Azim
7	7	Monday	17/04/2023	(8:00AM-9:00AM)	Surgical Anatomy of Thyroid Gland	Prof Khawaja M Azim
8	8	Monday	08/05/2023	(8:00AM-9:00AM)	Hypothyroidism	Prof Khawaja M Azim
9	9	Monday	15/05/2023	(8:00AM-9:00AM)	Graves Disease	Prof Khawaja M Azim
10	10	Monday	22/05/2023	(8:00AM-9:00AM)	Solitary Thyroid Nodule & Multinodular Goiter	Prof Khawaja M Azim
11	11	Monday	29/05/2023	(8:00AM-9:00AM)	CA thyroid: Investigation & Managment	Prof Khawaja M Azim
12	12	Monday	05/06/2023	(8:00AM-9:00AM)	Thyroid related Syndromes: MEN	Prof Khawaja M Azim
13	13	Monday	12/06/2023	(8:00AM-9:00AM)	Surgical Anatomy & Investigations of Parathyroid Gland	Prof Khawaja M Azim
14	14	Monday	19/06/2023	(8:00AM-9:00AM)	Hyperparathyroidism	Prof Khawaja M Azim
15	15	Monday	24/07/2023	(8:00AM-9:00AM)	CA Parathyroid	Prof Khawaja M Azim
16	16	Monday	31/07/2023	(8:00AM-9:00AM)	Conn's Syndrome	Prof Khawaja M Azim
17	17	Monday	07/08/2023	(8:00AM-9:00AM)	Surgical Anatomy & Investigations of Adrenal Gland	Prof Khawaja M Azim
18	18	Monday	21/08/2023	(8:00AM-9:00AM)	Pheochromocytoma	Prof Khawaja M Azim
19	19	Monday	28/08/2023	(8:00AM-9:00AM)	<b>Assessment 1</b>	Prof Khawaja M Azim
20	20	Monday	04/09/2023	(8:00AM-9:00AM)	Cushing Syndrome	Prof Khawaja M Azim
21	21	Monday	11/09/2023	(8:00AM-9:00AM)	Surgical Anatomy of Testis/ Scrotum	Prof Khawaja M Azim

22	22	Monday	18/09/2023	(8:00AM-9:00AM)	Benign Conditions of Scrotum & testicles	Prof Khawaja M Azim
23	23	Monday	25/09/2023	(8:00AM-9:00AM)	Testicular Tumors & their Management	Prof Khawaja M Azim
24	24	Monday	02/10/2023	(8:00AM-9:00AM)	Head & Neck Cancers: Overview	Prof Khawaja M Azim
25	25	Monday	09/10/2023	(8:00AM-9:00AM)	CA tongue	Prof Khawaja M Azim
26	26	Monday	16/10/2023	(8:00AM-9:00AM)	Salivary Gland Tumors 1	Prof Khawaja M Azim
27	27	Monday	23/10/2023	(8:00AM-9:00AM)	Salivary Gland Tumors 2	Prof Khawaja M Azim
28	28	Monday	30/10/2023	(8:00AM-9:00AM)	Trauma Clinical Scenarios	Prof Khawaja M Azim
29	29	Monday	06/11/2023	(8:00AM-9:00AM)	ATLS : 'ABC' / 'CBL'	Prof Khawaja M Azim
30	30	Monday	13/11/2023	(8:00AM-9:00AM)	Approach to patient with Trauma	Prof Khawaja M Azim
31	31	Monday	20/11/2023	(8:00AM-9:00AM)	Thoracic Trauma : CBL	Prof Khawaja M Azim
32	32	Monday	27/11/2023	(8:00AM-9:00AM)	Management of Shock	Prof Khawaja M Azim
33	33	Monday	04/12/2023	(8:00AM-9:00AM)	Chest Trauma 1	Prof Khawaja M Azim
34	34	Monday	11/12/2023	(8:00AM-9:00AM)	Ischemial Trauma : CBL	Prof Khawaja M Azim
35	35	Friday	08/09/2023	(8:00AM-9:00AM)	Chest Trauma 2	Prof Khawaja M Azim
36	36	Friday	15/09/2023	(8:00AM-9:00AM)	<b>Extremity Trauma : CBL</b>	Prof Khawaja M Azim
37	37	Friday	22/09/2023	(8:00AM-9:00AM)	Abdominal Trauma	Prof Khawaja M Azim
38	38	Friday	29/09/2023	(8:00AM-9:00AM)	<b>Revision Lecture</b>	Prof Khawaja M Azim
39	39	Friday	13/10/2023	(8:00AM-9:00AM)	Neurosurgical Trauma : CBL	Prof Khawaja M Azim
40	40	Friday	20/10/2023	(8:00AM-9:00AM)	<b>Assessment 2</b>	Prof Khawaja M Azim
<b>General Surgery Prof Humad Naem Rana (Final Year)</b>						
41	1	Tuesday	07/03/2023	(8:00AM-9:00AM)	Preoperative Preparation	Prof Humad Naem Rana
42	2	Tuesday	14/03/2023	(8:00AM-9:00AM)	Peri operative Care	Prof Humad Naem Rana
43	3	Tuesday	21/03/2023	(8:00AM-9:00AM)	Peri operative pain control/ Analgesia	Prof Humad Naem Rana
44	4	Tuesday	28/03/2023	(8:00AM-9:00AM)	Peri Operative Fluid Therapy & Nutrition	Prof Humad Naem Rana
45	5	Tuesday	04/04/2023	(8:00AM-9:00AM)	Gastrointestinal Endoscopy	Prof Humad Naem Rana
46	6	Tuesday	11/04/2023	(8:00AM-9:00AM)	History, Examination of acute abdomen	Prof Humad Naem Rana

47	7	Tuesday	18/04/2023	(8:00AM-9:00AM)	Diseases abdominal wall and hernias	Prof Humad Naeem Rana
48	8	Tuesday	25/04/2023	(8:00AM-9:00AM)	Groin Hernias	Prof Humad Naeem Rana
49	9	Tuesday	02/05/2023	(8:00AM-9:00AM)	Peritoneum Infection and Neoplasm	Prof Humad Naeem Rana
50	10	Tuesday	09/05/2023	(8:00AM-9:00AM)	Omentum & Mesentery	Prof Humad Naeem Rana
51	11	Tuesday	16/05/2023	(8:00AM-9:00AM)	Retroperitoneal Space	Prof Humad Naeem Rana
52	12	Tuesday	23/05/2023	(8:00AM-9:00AM)	Stomach- Surgical Anatomy & Investigations	Prof Humad Naeem Rana
53	13	Tuesday	30/05/2023	(8:00AM-9:00AM)	Diseases of Stomach	Prof Humad Naeem Rana
54	14	Tuesday	06/06/2023	(8:00AM-9:00AM)	CA stomach	Prof Humad Naeem Rana
55	15	Tuesday	13/06/2023	(8:00AM-9:00AM)	Surgical Anatomy of small, Large Bowel & Structure Diseases	Prof Humad Naeem Rana
56	16	Tuesday	20/06/2023	(8:00AM-9:00AM)	Inflammatory diseases of large bowel	Prof Humad Naeem Rana
57	17	Tuesday	25/07/2023	(8:00AM-9:00AM)	<b><u>Lecture Assessment 1</u></b>	Prof Humad Naeem Rana
58	18	Tuesday	01/08/2023	(8:00AM-9:00AM)	Infective Diseases of Large Bowel	Prof Humad Naeem Rana
59	19	Tuesday	08/08/2023	(8:00AM-9:00AM)	Intestinal Obstruction	Prof Humad Naeem Rana
60	20	Tuesday	15/08/2023	(8:00AM-9:00AM)	Tumors of small & large gut	Prof Humad Naeem Rana
61	21	Tuesday	22/08/2023	(8:00AM-9:00AM)	Appendix	Prof Humad Naeem Rana
62	22	Tuesday	29/08/2023	(8:00AM-9:00AM)	Rectum: Non-malignant diseases	Prof Humad Naeem Rana
63	23	Tuesday	05/09/2023	(8:00AM-9:00AM)	CA Rectum	Prof Humad Naeem Rana
64	24	Tuesday	12/09/2023	(8:00AM-9:00AM)	Surgical anatomy & physiology of Breast	Prof Humad Naeem Rana
65	25	Tuesday	19/09/2023	(8:00AM-9:00AM)	Diseases & Carcinoma Anal Canal	Prof Humad Naeem Rana
66	26	Tuesday	26/09/2023	(8:00AM-9:00AM)	Benign Diseases of Breast	Prof Humad Naeem Rana
67	27	Tuesday	03/10/2023	(8:00AM-9:00AM)	Malignant Diseases of Breast	Prof Humad Naeem Rana
68	28	Tuesday	10/10/2023	(8:00AM-9:00AM)	Stomas: Types and Care	Prof Humad Naeem Rana
69	29	Tuesday	17/10/2023	(8:00AM-9:00AM)	Triage & Disaster Surgery	Prof Humad Naeem Rana
70	30	Tuesday	24/10/2023	(8:00AM-9:00AM)	Peads Surgery : Dyspersia	Prof Humad Naeem Rana
71	31	Tuesday	31/10/2023	(8:00AM-9:00AM)	Peads Surgery : High Intestinal Onstruction	Prof Humad Naeem Rana



72	32	Tuesday	07/11/2023	(8:00AM-9:00AM)	Peads Surgery : Low Intestinal Onstruction	Prof Humad Naeem Rana
73	33	Tuesday	14/11/2023	(8:00AM-9:00AM)	Tumors of Childhood	Prof Humad Naeem Rana
74	34	Tuesday	21/11/2023	(8:00AM-9:00AM)	Congenital Malfunctions	Prof Humad Naeem Rana
75	35	Tuesday	28/11/2023	(8:00AM-9:00AM)	<b>Lecture Assessment 2</b>	Prof Humad Naeem Rana
<b>General Surgery Prof Touseef Asghar (Final Year)</b>						
76	1	Wednesday	08/03/2023	(09:50AM-10:00AM)	Metabolic Response to Injury	Prof Touseef Asghar
77	2	Wednesday	15/03/2023	(09:50AM-10:00AM)	Wound Tissue repair + Scars	Prof Touseef Asghar
78	3	Wednesday	22/03/2023	(09:50AM-10:00AM)	Surgical Infection	Prof Touseef Asghar
79	4	Wednesday	29/03/2023	(09:50AM-10:00AM)	Principles of Oncological Surgery	Prof Touseef Asghar
80	5	Wednesday	05/04/2023	(09:50AM-10:00AM)	Surgical Audit & Research	Prof Touseef Asghar
81	6	Wednesday	12/04/2023	(09:50AM-10:00AM)	Surgical Ethics & Law	Prof Touseef Asghar
82	7	Wednesday	19/04/2023	(09:50AM-10:00AM)	Day Care Surgery	Prof Touseef Asghar
83	8	Wednesday	26/04/2023	(09:50AM-10:00AM)	Tropical Surgery	Prof Touseef Asghar
84	9	Wednesday	03/05/2023	(09:50AM-10:00AM)	Basic Setup of Operation Theater	Prof Touseef Asghar
85	10	Wednesday	10/05/2023	(09:50AM-10:00AM)	Basics of Laparoscopic Surgery	Prof Touseef Asghar
86	11	Wednesday	17/05/2023	(09:50AM-10:00AM)	Surgical Anatomy of Liver & Investigations of Biliary System	Prof Touseef Asghar
87	12	Wednesday	24/05/2023	(09:50AM-10:00AM)	Liver Trauma	Prof Touseef Asghar
88	13	Wednesday	31/05/2023	(09:50AM-10:00AM)	Portal Hypertension & Portosystemic Shunts	Prof Touseef Asghar
89	14	Wednesday	07/06/2023	(09:50AM-10:00AM)	Liver Tumors: Benign & Malignant	Prof Touseef Asghar
90	15	Wednesday	14/06/2023	(09:50AM-10:00AM)	Hydatid Disease of Liver	Prof Touseef Asghar
91	16	Wednesday	21/06/2023	(09:50AM-10:00AM)	Surgical Anatomy & Physiology Of Biliary Tract	Prof Touseef Asghar
92	17	Wednesday	26/07/2023	(09:50AM-10:00AM)	Investigation of Gall Bladder & Biliary Tract	Prof Touseef Asghar
93	18	Wednesday	02/08/2023	(09:50AM-10:00AM)	Gallstones	Prof Touseef Asghar
94	19	Wednesday	09/08/2023	(09:50AM-10:00AM)	Complications of Gall Stones	Prof Touseef Asghar
95	20	Wednesday	16/08/2023	(09:50AM-10:00AM)	Open & Lap. Cholecystectomy	Prof Touseef Asghar

96	21	Wednesday	23/08/2023	(09:50AM-10:00AM)	Choledocholithiasis + Cholangitis	Prof Touseef Asghar
97	22	Wednesday	30/08/2023	(09:50AM-10:00AM)	Obstructive Jaundice 1 & 2	Prof Touseef Asghar
98	23	Wednesday	06/09/2023	(09:50AM-10:00AM)	<b>Assessment 1</b>	Prof Touseef Asghar
99	24	Wednesday	13/09/2023	(09:50AM-10:00AM)	Tumors of bile duct	Prof Touseef Asghar
100	25	Wednesday	20/09/2023	(09:50AM-10:00AM)	Anatomy & Physiology of Pancreas + Investigations	Prof Touseef Asghar
101	26	Wednesday	27/09/2023	(09:50AM-10:00AM)	Injuries to the Pancreas	Prof Touseef Asghar
102	27	Wednesday	04/10/2023	(09:50AM-10:00AM)	Acute Pancreatitis 1	Prof Touseef Asghar
103	28	Wednesday	11/10/2023	(09:50AM-10:00AM)	Acute Pancreatitis 2	Prof Touseef Asghar
104	29	Wednesday	18/10/2023	(09:50AM-10:00AM)	Chronic Pancreatitis	Prof Touseef Asghar
105	30	Wednesday	25/10/2023	(09:50AM-10:00AM)	ERCP & its Complications	Prof Touseef Asghar
106	31	Wednesday	01/11/2023	(09:50AM-10:00AM)	CA Pancreas	Prof Touseef Asghar
107	32	Wednesday	08/11/2023	(09:50AM-10:00AM)	Surgical Anatomy & Physio of Spleen/ Causes of Splenomegaly	Prof Touseef Asghar
108	33	Wednesday	15/11/2023	(09:50AM-10:00AM)	Hemolytic Disorders of Spleen	Prof Touseef Asghar
109	34	Wednesday	22/11/2023	(09:50AM-10:00AM)	<b>Assessment 2</b>	Prof Touseef Asghar
<b>Anesthesia (Final Year)</b>						
110	1	Thursday	09/03/2023	(8:00AM-9:00AM)	Introduction to Regional Anesthesia	Prof Mobeen
111	2	Thursday	16/03/2023	(8:00AM-9:00AM)	Introduction of Pain Management	Dr Itrat Kazmi
112	3	Thursday	30/03/2023	(8:00AM-9:00AM)	Principle of Fluid Management	Dr Amir bashir
113	4	Thursday	06/04/2023	(8:00AM-9:00AM)	Basic Principle of ICU Management	Dr Amir Waseem
<b>Cardiovascular Lectures (Final Year)</b>						
114	1	Friday	17/03/2023	(8:00AM-9:00AM)	Intro to Cardiothoracic Surgery	Prof Aftab Younas
115	2	Friday	24/03/2023	(8:00AM-9:00AM)	Coronary Bypass Surgery	Prof Aftab Younas
116	3	Friday	31/03/2023	(8:00AM-9:00AM)	Congenital & Vulvular Heart Surgery	Prof Aftab Younas
117	4	Friday	14/04/2023	(8:00AM-9:00AM)	Acute & Chronic Ischemic Limb	Prof Aftab Younas
118	5	Friday	21/04/2023	(8:00AM-9:00AM)	Abdomino-Thoracic Aneurysms	Prof Aftab Younas

Neurosurgery Lectures (Final Year)						
119	1	Thursday	10/08/2023	(8:00AM-9:00AM)	Neuromonitoring	Prof. Tariq Salahudin
120	2	Thursday	17/08/2023	(8:00AM-9:00AM)	Extradural / Subdural Hematoma	Prof. Tariq Salahudin
121	3	Thursday	24/08/2023	(8:00AM-9:00AM)	Hydrocephalous Management	Prof. Tariq Salahudin
122	4	Thursday	31/08/2023	(8:00AM-9:00AM)	Cervical Spine Injury (Assessment & Management)	Prof. Tariq Salahudin
123	5	Thursday	07/09/2023	(8:00AM-9:00AM)	Brain Tumors: Management	Prof. Tariq Salahudin
Urology Lectures (Final Year)						
124	1	Friday	28/04/2023	(8:00AM-9:00AM)	Urological Trauma	Dr Irfan Nazir
125	2	Friday	12/05/2023	(8:00AM-9:00AM)	Kidney Tumors	Dr Irfan Nazir
126	3	Friday	19/05/2023	(8:00AM-9:00AM)	Tumors of Urinary Bladder	Dr Irfan Nazir
127	4	Friday	26/05/2023	(8:00AM-9:00AM)	Prostate	Dr Farooq Hameed
128	5	Friday	09/06/2023	(8:00AM-9:00AM)	Pediatric Urology	Dr Irfan Nazir
129	6	Friday	16/06/2023	(8:00AM-9:00AM)	<b>Assessment Urology</b>	Dr Irfan Nazir
Orthopedics Lectures (Final Year)						
130	1	Thursday	14/09/2023	(8:00AM-9:00AM)	Fracture in Children & How these differ from adults	Dr Muhammad Saleem
131	2	Thursday	21/09/2023	(8:00AM-9:00AM)	Knee Injuries, Soft Tissue ACL etc.	Dr Muhammad Saleem
132	3	Thursday	05/10/2023	(8:00AM-9:00AM)	Management of Orthopedic Infection	Dr Muhammad Saleem
133	4	Thursday	12/10/2023	(8:00AM-9:00AM)	Spinal Fracture: Classification & Management	Dr Muhammad Saleem
134	5	Thursday	19/10/2023	(8:00AM-9:00AM)	Complications of Fractures & Management of each type	Dr Muhammad Saleem
135	6	Thursday	02/11/2023	(8:00AM-9:00AM)	Classifications of fractures and introduction to fracture management	Dr Muhammad Saleem
136	7	Thursday	09/11/2023		<b>Assessment Orthopedic</b>	Dr Muhammad Saleem
Plastic Surgery Lectures (Final Year)						

137	1	Friday	23/06/2023	(8:00AM-9:00AM)	Basic of Plastic Surgery 1	Dr Asif Zubair Bhatti
138	2	Friday	11/08/2023	(8:00AM-9:00AM)	Basic of Plastic Surgery 2	Dr Asif Zubair Bhatti
139	3	Friday	18/08/2023	(8:00AM-9:00AM)	Basic of Plastic Surgery 3	Dr Asif Zubair Bhatti
140	4	Friday	25/08/2023	(8:00AM-9:00AM)	Burns 4	Dr Asif Zubair Bhatti
141	5	Friday	27/10/2023	(8:00AM-9:00AM)	Burns 5	Dr Asif Zubair Bhatti
142	6	Wednesday	29/11/2023	(09:50AM-10:00AM)	Flaps Recognition Surgery 8	Dr Asif Zubair Bhatti
143	7	Tuesday	05/12/2023	(8:00AM-9:00AM)	Skin Grafting 6	Dr Asif Zubair Bhatti
144	8	Wednesday	06/12/2023	(09:50AM-10:00AM)	Flaps Recognition Surgery 9	Dr Asif Zubair Bhatti
145	9	Tuesday	12/12/2023	(8:00AM-9:00AM)	Skin Grafting 7	Dr Asif Zubair Bhatti
146	10	Wednesday	13/12/2023	(09:50AM-10:00AM)	Flaps Recognition Surgery 10	Dr Asif Zubair Bhatti
<b>General Surgery Prof Asghar Ali (Final Year)</b>						
147	1	Thursday	13/04/2023	(8:00AM-9:00AM)	Malnutrition in Surgical patient	Prof Asghar Ali
148	2	Thursday	20/04/2023	(8:00AM-9:00AM)	Management of Fluid in Surgical Patients	Prof Asghar Ali
149	3	Thursday	27/04/2023	(8:00AM-9:00AM)	Management of electrolytes in Surgical Patients	Prof Asghar Ali
150	4	Thursday	04/05/2023	(8:00AM-9:00AM)	Wound Types	Prof Asghar Ali
151	5	Thursday	11/05/2023	(8:00AM-9:00AM)	Types of Haemorrhage & Their Management	Prof Asghar Ali
152	6	Thursday	18/05/2023	(8:00AM-9:00AM)	AIDS Management in Surgical Patient	Prof Asghar Ali
153	7	Thursday	25/05/2023	(8:00AM-9:00AM)	Multidrug resistant infection in Surgical Pt.	Prof Asghar Ali
154	8	Thursday	01/06/2023	(8:00AM-9:00AM)	Needle Stick Injury & Its Management	Prof Asghar Ali
155	9	Thursday	08/06/2023	(8:00AM-9:00AM)	Cytological & hystological disorder	Prof Asghar Ali
156	10	Thursday	15/06/2023	(8:00AM-9:00AM)	adjuvant treatment in Surgical Patient	Prof Asghar Ali
157	11	Thursday	22/06/2023	(8:00AM-9:00AM)	<b><u>Assessment (MCQs/SEQs)</u></b>	Prof Asghar Ali
158	12	Thursday	03/08/2023	(8:00AM-9:00AM)	Revision Lecture	Prof Asghar Ali
<b>Taruma Surgery Dr Talat Waseem (Final Year)</b>						
159	1	Friday	10/11/2023	(8:00AM-9:00AM)	<b>Introduction to Surgical Trauma</b>	Dr Talat Waseem

160	2	Friday	17/11/2023	(8:00AM-9:00AM)	<b>Types of Surgical Trauma</b>	Dr Talat Waseem
161	3	Friday	24/11/2023	(8:00AM-9:00AM)	<b>Risk Factors for Surgical Trauma</b>	Dr Talat Waseem
162	4	Friday	08/12/2023	(8:00AM-9:00AM)	<b>Postoperative Complications and Trauma</b>	Dr Talat Waseem
163	5	Tuesday	15/12/2023	(8:00AM-9:00AM)	<b>Trauma-Informed Surgical Care</b>	Dr Talat Waseem
164	6	Thursday	16/11/2023	(8:00AM-9:00AM)	<b>Preventing Surgical Trauma</b>	Dr Talat Waseem
165	7	Thursday	23/11/2023	(8:00AM-9:00AM)	<b>Psychosocial Support for Patients</b>	Dr Talat Waseem
166	8	Thursday	30/11/2023	(8:00AM-9:00AM)	<b>Trauma Care Team Collaboration</b>	Dr Talat Waseem
167	9	Thursday	07/12/2023	(8:00AM-9:00AM)	<b>Ethical Considerations</b>	Dr Talat Waseem
168	10	Thursday	14/12/2023	(8:00AM-9:00AM)	<b>Postoperative Trauma</b>	Dr Talat Waseem