Rawalpindi Medical University Department of Medical Education (DME)

# **Gastrointestinal Tract Module**

RUTA





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### **University Moto, Vision, Values & Goals**

#### **RMU Motto**



#### **Mission Statement**

To impart evidence-based research-oriented health professional education in order to provide best possible patient care and inculcate the values of mutual respect, ethical practice of healthcare and social accountability.

#### **Vision and Values**

Highly recognized and accredited centre of excellence in Medical Education, using evidence-based training techniques for development of highly competent health professionals, who are lifelong experiential learner and are socially accountable.

#### **Goals of the Undergraduate Integrated Modular Curriculum**

The Undergraduate Integrated Learning Program is geared to provide you with quality medical education in an environment designed to:

- Provide thorough grounding in the basic theoretical concepts underpinning the practice of medicine.
- Develop and polish the skills required for providing medical services at all levels of the Health care delivery system.
- Help you attain and maintain the highest possible levels of ethical and professional conduct in your future life.
- Kindle a spirit of inquiry and acquisition of knowledge to help you attain personal and professional growth & excellence.

Second Year MBBS 2024

Study Guide

**GIT Module** 

**Integration of Disciplines in GIT Module** 







# **Discipline wise Details of Modular Content**

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
	Anatomy	-	Tongue, Body	Digestive	Oral Cavity, Abdomen and associated visceras
			Cavities,	Tract &	
			Gastrointestinal	associated	
			System	organs	
				(Junqueira)	
	Biochemistry	Carbohydrate metabolism, GIT digestiv	ve juices, Digestior	and absorption	n, GIT Hormones LFTs, Jundice & Nutrition,
	Physiology	General Principles of Gastrointestinal H	Function—Motility	, Nervous Cont	rol, and Blood Circulation
		Propulsion and Mixing of Food in the A	Alimentary Tract		
		Secretory Functions of the Alimentary	Tract, Digestion ar	nd Absorption in	n the Gastrointestinal Tract
		Physiology of Gastrointestinal Disorder	rs		
		C	rientation Session		
1	Department of Medical	Orientation Session on Curricular Re	eform RMU & Fee	dback of Year 2	2023
	Education (DME)	Student Session on Standardization of	of Teaching Strateg	gies	
			Spiral Courses		
	The Holy Quran Translation	The Holy Quran Translation Component			
		• Imaniat I			
		• Ibadat I			
		• Ibadaat-II			
		• Imaniyaat-II			
		• Ibadaat-III			
		• Imaniat-III			
	Pak Studies/Islamiyat	• Tehreek-E-Pakistan Islaahi Tehreeka	ain		
		• Akhirat-I			
		• Toheed			
		• Qayam e Pakistan, Aghraaz o Maqas	sid		
		• Tehreek-e-Aligarh, Sir Syed Ahmad	Khan		
		Akhirat -II			
	Bioethics & Professionalism	• Pakistan Medical & dental council C	Code of Ethics		
	Research (IUGRC)	• Introduction to descriptive statistics	(Research-I)		
		Classification of different types of D	ata (Research-II)		

	• Scales of Data measurement (Research-III)
	• Measures of central Tendency (Research-IV)
	• Compute & Interpret measures of central tendency (Research-V)
	Measure of dispersion/ Secondary data Analysis (Research-VI)
Radiology & Artificial	Medical imaging of abdomen- I
Intelligence	Medical imaging of abdomen-II
Family Medicine	Common Abdominal diseases
Behavioral Sciences	Eating Disorders
	Vertical Integration
Clinically content relevant	to GIT module
• Concept of health & d	isease (Community medicine)
• Epidemiology of infec	tious diseases & Basic Concepts (Community medicine)
• Peptic ulcer (Medicine	
• Jaundice (Medicine)	
• Irritable Bowel Syndro	ome (Medicine)
• Antidiarrheal drugs &	drugs for Peptic Ulcer Disease (Pharmacology)
• Acute & Chronic Diar	rhea (Pediatrics)
• Common GIT problem	ns in pregnancy (Hyperemesis gravidarum, GERD, Constipation, hemorrhoids) (Gynae and OBS)

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Small Group Discussion (SGD)	
Small Group Discussion (SGD)         Self-Directed Learning (SDL)	
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## GIT Module Team

Module Name	:	GIT Module
Duration of module	:	06 Weeks
Coordinator	:	Dr. Uzma Kiyani
Co-coordinator	:	Dr. Minahil Haq
Reviewed by	:	Module Committee

Module	Module Committee Module Task Force Team		
Vice Chancellor RMU	Prof. Dr. Muhammad Umar	Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)
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Dean Basic Sciences			
Additional Director DME	Prof. Dr. Ifra Saeed	Co-coordinator	Dr. Uzma Zafar (APWMO of Biochemistry)
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Focal Person Pathology	Dr. Asiya Niazi		
Focal Person Behavioral	Dr. Saadia Yasir		
Sciences		-	
Focal Person Community	Dr. Afifa kalsoom		
Medicine			
Focal Person Quran	Dr. Uzma Zafar		
Translation Lectures			
Focal Person Family Medicine	Dr. Sadia Khan		

### **Module I -GIT Module**

**Rationale:** GIT module has been designed to unravel the basic structure function of the alimentary system along with its embryological development and anomalies. The composition of the food is complex and little of it is water soluble. Therefore, it cannot enter body fluids. Hence it needs to be broken down into its chemical components before it can be absorbed. Four activities of the GIT tract can be identified for this process to occur. These are:

**Motility:** The term is used to describe the movements of the GIT tract. These movements are responsible for breaking down and pushing the food along the alimentary tract and to its destination as feces.

Secretion: Different secretion of the GIT are concerned with breakdown of food into its digestive particles

Digestion: Break down of food into small pieces. It is produced by the mechanical activity of the alimentary tract. The surface of the food is exposed to enzymatic activity.

Absorption: The transfer of nutrients or the digestive products from the lumen to blood or the lymph.

Disruption of any of its activities can lead to disease states such as pain, peptic ulceration, diarrhea & constipation.

Coordination of all these functions is brought about hormones of GIT and exocrine pancreas.

#### **Module Outcomes**

At the end of this module the student should be able to:

#### Knowledge

- Explain the structural & developmental organization of GIT.
- Explain the composition, functions, mechanism & control of following gastrointestinal secretions: salivary, gastric, pancreatic, biliary, small & large intestines.
- Explain the swallowing and motility patterns in the GIT & its role in mixing, propulsion & evacuation of feces.
- Describe the mechanism of absorption of various nutrients and their role in malabsorption syndrome.
- Explain the physiological anatomy, biochemistry functions and dysfunctions of Liver.
- Explain the formation, function & control of secretion of bile.
- Explain the GIT hormones (structure, function) & their role in secretion and motility.
- Apply the knowledge of the basic sciences to understand pathophysiology of common GIT diseases.
- Appreciate concepts & importance of

- Family Medicine
- Biomedical Ethics
- Artificial Intelligence
- $\circ$  Research

### Skills

- Dissect various parts of GIT, and related structures including peritoneum, to demonstrate their gross Anatomy and relationship to each other.
- Identify different organs of GIT under microscope and on model.

#### Attitude

• Demonstrate a **professional attitude, team-building** spirit and **good communication skills.** 

This module will run in 6 weeks duration. The content will be covered through introduction of topics. Instructional strategies are given in the timetable and learning objectives are given in the study guides. Study guides will be uploaded on the university website. Good luck!

### **SECTION - I**

### **Terms & Abbreviations**

#### Contents

- Domains of Learning
- Teaching and Learning
  - Methodologies/Strategies
    - Large Group Interactive Session
       (LGIS)
    - Small Group Discussion (SGD)
    - Self-Directed Learning (SDL)
    - Case Based Learning (CBL)
    - Problem- Based Learning (PBL)
    - Skill Labs/Practicals (SKL)

#### **Tables & Figures**

• Table1. Domains of learning according to Blooms

Taxonomy

- Figure 1. Prof Umar's Model of Integrated Lecture
- Table2. Standardization of teaching content in Small Group Discussions
- Table 3. Steps of taking Small Group Discussions
- Figure 2. PBL 7 Jumps Model

# **Table1. Domains of Learning According to Blooms Taxonomy**

Sr. #	Abbreviation	Domains of learning
1.	С	Cognitive Domain: knowledge and mental skills.
	• C1	Remembering
	• C2	Understanding
	• C3	Applying
	• C4	Analyzing
	• C5	Evaluating
	• C6	Creating
2.	Р	Psychomotor Domain: motor skills.
	• P1	Imitation
	• P2	Manipulation
	• P3	Precision
	• P4	Articulation
	• P5	Naturalization
3.	А	Affective Domain: feelings, values, dispositions, attitudes, etc
	• A1	Receive
	• A2	Respond
	• A3	Value
	• A4	Organize
	• A5	Internalize

### **Teaching and Learning Methodologies / Strategies**

## Large Group Interactive Session (LGIS)

The large group interactive session is structured format of Prof Umar Model of Integrated lecture. It will the followed for delivery of all LGIS. The lecturer will introduce a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patients, interviews, and exercises, etc. Students are actively involved in the learning process.



Figure 1. Prof Umar's Model of Integrated Lecture

## **Small Group Discussion (SGD)**

This format helps students to clarify concepts acquire skills and attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics or power point presentations. Students exchange opinions and apply knowledge gained from lectures, SGDs and self study. The facilitator role is to ask probing questions, summarize and help to clarify the concepts.

### Table 2. Standardization of teaching content in Small Group Discussions

S. No	Topics	Approximate %
1	Title Of SGD	
2	Learning Objectives from Study Guides	
3	Horizontal Integration	5%+5%=10%
4	Core Concepts of the topic	60%
5	Vertical Integration	20%
6	Related Advance Research points	3%
7	Related Ethical points	2%

# Table 3. Steps of Implementation of Small Group Discussions

Step 1	Sharing of Learning objectives by using students Study guides	First 5 minutes
Step 2	Asking students pre-planned questions from previous teaching session to develop co-relation (these questions will be standardized)	5minutes
Step 3	Students divided into groups of three and allocation of learning objectives	5minutes
Step 4	ACTIVITY: Students will discuss the learning objectives among themselves	15 minutes
Step 5	Each group of students will present its learning objectives	20 min
Step 6	Discussion of learning content in the main group	30min
Step 7	Clarification of concept by the facilitator by asking structured questions from learning content	15 min
Step 8	Questions on core concepts	
Step 9	Questions on horizontal integration	
Step 10	Questions on vertical integration	
Step 11	Questions on related research article	
Step 12	Questions on related ethics content	
Step 13	Students Assessment on online MS teams (5 MCQs)	5 min
Step 14	Summarization of main points by the facilitator	5 min
Step 15	Students feedback on the SGD and entry into log book	5 min
Step 16	Ending remarks	

### **Self-Directed Learning (SDL)**

- Self- directed learning is a process where students take primary charge of planning, continuing, and evaluating their learning experiences.
- Time Home assignment
- Learning objectives will be defined
- Learning resources will be given to students = Textbook (page no), web site
- Assessment:
  - i Will be online on LMS (Mid module/ end of Module)

ii.OSPE station

### **Case Based Learning (CBL)**

- It's a learner centered model which engages students in discussion of specific scenarios that typically resemble real world examples.
- Case scenario will be given to the students
- Will engage students in discussion of specific scenarios that resemble or typically are real-world examples.
- Learning objectives will be given to the students and will be based on
  - i. To provide students with a relevant opportunity to see theory in practice
  - ii. Require students to analyze data in order to reach a conclusion.
  - iii. Develop analytic, communicative, and collaborative skills along with content knowledge.

## **Problem Based Learning (PBL)**

- Problem-based learning (PBL) is a student-centered approach in which students learn about a subject by working in groups to solve an open-ended problem.
- This problem is what drives the motivation and the learning.

The 7- Jump-Format of PBL (Masstricht Medical School)			
Step 7	Synthesize & Report		
Step 6	Collect Information from outside		
Step 5	Generate learning Issues		
Step 4         Discuss and Organize Ideas			
Step 3         Brainstorming to Identify Explanations			
Step 2	Define the Problem		
Step 1	Clarify the Terms and Concepts of the Problem Scenario		
	Problem- Scenario		

Figure 2. PBL 7 Jumps Model

# Practical Sessions/Skill Lab (SKL)

Practical Session/ Skill Lab (SKL)	
Demonstration/ power point presentation 4-5 slide	10-15 minutes
Practical work	25-30 minutes
Write/ draw and get it checked by teacher	20-25 minutes
05 mcqs at the end of the practical	10 minutes
At the end of module practical copy will be signed by head of dep	partment
At the end of block the practical copy will be signed by	
Head of Department	
Dean	
Medical education department	
QEC	

### **SECTION – II**

### Learning Objectives, Teaching Strategies & Assessments

#### Contents

- Horizontally Integrated Basic Sciences (Anatomy, Physiology & Biochemistry)
- Large Group Interactive Session:
  - Anatomy (LGIS)
  - Physiology (LGIS)
  - Biochemistry (LGIS)
- Small Group Discussions
  - Anatomy (SGD)
  - Physiology (SGD)
  - Biochemistry (SGD)
- Self-Directed Topic, Learning Objectives & References
  - Anatomy (SDL)
  - Physiology (SDL)
  - Biochemistry (SDL)
- Skill Laboratory
  - Anatomy
  - Physiology
  - Biochemistry

## Horizontally Integrated Basic Sciences (Anatomy, Physiology & Biochemistry) Anatomy Large Group Interactive Session (LGIS)

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of lecture students should be able to	Domain	Strategy	Tool
	Embryology			
	• Describe the development of pharyngeal apparatus	C2		
	• Enlist the sources for development of different parts of tongue.	C1		
EMBRYOLOGY	• Explain the development of tongue along with its nerve supply.	C2	LOIG	SAQ
Tongue	• Describe the congenital anomalies associated with tongue	C2	LGIS	MCQ VIVA
Tongue	• Describe the developmental basis of physiological and biochemical mechanisms involved in perception and transmission of taste sensation	C2		OSPE
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use HEC digital library	C3		
	• Enumerate different body cavities	C1		
	• Describe division of embryonic body cavity	C2		
EMBRYOLOGY	• Discuss formation and significance of pleuropericardial membranesand	C2		SAQ
Development of	pleuroperitoneal membranes		LGIS	MCQ
Body cavities I & II	• Describe muscular ingrowth from Lateral body walls	C2		VIVA
	• Correlate with the clinical conditions	C3		OSPE
	• Understand curative and preventive heath care measures	C3		
	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
EMBRYOLOGY	• Explain different stages of development of salivary glands	C2		
Development of	• Enlist the sourse for development of different type of salivary gland	C1		
Salivary glands	• Explain development of its nerve supply	C2		SAQ

• Complete with the clinical conditions	C3		
• Contrate with the chinical conditions	0.5		VIVA
• Understand curative and preventive heath care measures	C3		OSPE
• To practice the principles of bioethetics	C3		
• Apply strategic use of A.I in health care	C3		
Read relevant research articles	C3	_	
Use of HEC digital library	C3		
• Discuss the formation of tracheoesophageal septum and its importance	C2	_	
• Describe salient features of esophageal development	C2		
Describe congenital anomalies of esophagus	C2	LCIC	SAQ MCO
• Describe the developmental basis for the physiological and biochemical	C2	LGIS	MCQ
EMBRYOLOGY         mechanisms involved in the process of swallowing			OSPE
Development of     Correlate with the clinical conditions	C3	_	OSIL
Esophagus     Understand curative and preventive heath care measures	C3	_	
To practice the principles of bioethetics	C3		
Apply strategic use of A.I in health care	C3	_	
Read relevant research articles	C3		
Use of HEC digital library	C3		
Explain the development of stomach	C2	_	
• Discuss rotations and positional shifts of stomach & their effect on nerve supply and peritoneal attachments	C2		SAQ
Development of • Explain formation of omental bursa.	C2	LGIS	MCQ
Stomach     • Describe congenital anomalies of stomach	C2		VIVA
• Describe the developmental basis for the physiological and biochemical mechanisms involved in the process of digestion in the stomach	C2		OSPE
Discuss pernicious anemia	C2		
• Correlate with the clinical conditions	C3	-	
Understand curative and preventive heath care measures	C3		
• To practice the principles of bioethetics	C3	]	
• Apply strategic use of A.I in health care	C3		
Read relevant research articles	C3		
• Use of HEC digital library	C3		

	Describe formation of hepatic diverticulum	C1	LGIS		
	Describe histogenesis of liver during intrauterine life	C1			
	• Describe formation of various ligaments of liver.	C1			
	• Discuss congenital abnormalities of liver	C3			
EMDDVOLOCY	• Describe the developmental basis for the physiological and biochemical	C2			
EMBRYOLOGY	mechanisms involved in the process of detoxification in the liver				SAQ
Liver	• Correlate with the clinical conditions	C3		VIVA	
	• Understand curative and preventive heath care measures	C3		OSPE	
	• To practice the principles of bioethetics	C3		ODIL	
	• Apply strategic use of A.I in health care	C3			
	Read relevant research articles	C3			
	• Use of HEC digital library	C3			
	• Discuss development of Gall bladder	C2			
	• Describe /congenital anomalies of gall bladder	C2		SAQ MCQ	
EMBRYOLOGY	• Discuss development and congenital anomalies of pancreas	C2	LGIS		
Gall bladder,	• Describe development of extrahepatic biliary apparatus and its parts with	C2			
pancreas and	abnormalities			VIVA	
Biliary apparatus	• Describe the developmental basis for the physiological and biochemical	C2		OSPE	
	mechanisms involved in the process of production of bile and pancreatic				
	vsecretions				
	Correlate with the clinical conditions	C3			
	• Understand curative and preventive heath care measures	C3			
	• To practice the principles of bioethetics	C3			
	• Apply strategic use of A.I in health care	C3			
	Read relevant research articles	C3			
	• Use of HEC digital library	C3			
	• Describe development of mid gut, midgut loop and rotation of midgut loop.	C2			
EMBRYOLOGY Development of	• Explain physiological umbilical hernia and return of mid gut to abdomen.	C2	LGIS	SAQ	
	• Describe fixation of intestines and transformations in peritoneal dispositions	C2		MCQ	
small intestine	after mid gut loop return.			VIVA	
	• Describe congenital anomalies and clinical correlation of mid gut	C2		OSPE	
	development.				
	Correlate with the clinical conditions	C3			
	• Understand curative and preventive heath care measures	C3			

	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Enlist parts of large intestine.	C2		
	• Describe partitioning of cloaca and cloacal membrane.	C2		SAQ
	Describe development of anal canal	C2	LGIS	MCQ
EMBRYOLOGY	Describe congenital anomalies of large intestine.	C3		VIVA
Development of	• Correlate with the clinical conditions	C3		OSPE
large intestine	• Understand curative and preventive heath care measures	C3		
	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	Histology	I		
	• Discuss surfaces of tongue with their histological features	C1	LGIS	SAQ MCQ
	• Describe different papillae of tongue with their location & features	C2		
	• Explain histological features of taste buds	C2		
HISTOLOGY:	• Discuss leukoplakia and oral thrush	C2		
Tongue	Correlate with the clinical conditions	C3		VIVA
	• Understand curative and preventive heath care measures	C3		OSPE
	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	• Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Enlist major salivary glands	C2		
HISTOLOGY Salivary glands	• Explain histological structure of salivary glands	C2	LGIS	SAQ
	• Discuss different cells forming parenchyma of salivary glands	C2		MCQ
	Discuss histology of duct system	C2		VIVA
	• Differentiate between major salivary glands on histological basis	C2		OSPE
	• Discuss effects of viral infections on salivary glands	C3		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures	C3		

	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Describe the developmental basis of physiological and biochemical	C2		
HISTOLOGY	mechanisms involved in perception and transmission of taste sensation			SAQ
General	• Describe the histological characteristics of each layer with functional	C2	1.010	MCQ
organization of GIT	significance		LGIS	VIVA
	Discuss associated clinicals (megacolon, chagas disease)	C2		OSPE
	Correlate with the clinical conditions	C3		
	Understand curative and preventive heath care measures	C3		
	To practice the principles of bioethetics	C3		
	Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
HISTOLOGY	Describe the histological layers of esophagus.	C2		
Esophagus	• Compare between various portions of esophagus histologically.	C2	LGIS	SAQ MCQ VIVA OSPE
	• Discuss GERD	C2		
	Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures	C3		
	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	• Read relevant research articles	C3		
	• Use of HEC digital library	C3		
HISTOLOGY	• Describe the histological layers of different parts of stomach	C2	LGIS	SAQ
Stomach	Describe histological differences of different parts of the gastric glands	C2		MCQ
	• Describe the structure and function of different cells of gastric glands	C2		OSPE
	• Explain clinical conditions associated with stomach histologically	C2		
	Discuss pernicious anemia	C2		
	Correlate with the clinical conditions	C3		
	Understand curative and preventive heath care measures	C3		

	• To practice the principles of bioethetics	C3		
	Apply strategic use of A.I in health care	C3	1	
	Read relevant research articles	C3	1	
	Use of HEC digital library	C3	1	
	Discuss in detail the histological organization of liver	C2		
	<ul> <li>Explain the structure of liver lobule, portal triads&amp; hepatic acinus and its functional importance</li> </ul>	C2	LGIS	SAQ MCQ
	• Discuss histological features of hepatocytes.	C2	-	VIVA
	<ul> <li>Explain Hepatic cords, central vein, portal triad, hepatic venules, hepatic arterioles, bile duct &amp; liver sinusoids.</li> </ul>	C2		OSPE
HISTOLOGY	• Discuss the blood supply of the liver.	C2	1	
Liver	• Explain different cells of the liver tissue	C2	1	
	Describe clinical aspects of liver on histological grounds	C2	1	
	Discuss cirrhosis, fatty liver	C2	-	
	Discuss jaundice	C2		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures	C3		
	• To practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	Correlate with the clinical conditions	C3		
	Differentiate between exocrine and endocrine pancreas.	C2		
HISTOLOGY Pancreas & Gall	• Discuss the cellular structure and function of exocrine pancreatic acinus and ducts.	C2		SAQ
	Discuss acute & chronic pancreatitis and pancreatic cancer	C2		
Bladder	• Explain the histological features of the gallbladder.	C2	1	
	Discuss cholelithiasis	C2	LGIS	MCQ
	Correlate with the clinical conditions	C3		VIVA
	Understand curative and preventive heath care measures	C3		OSPE
	To practice the principles of bioethetics	C3		
	Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		

	• Differentiate the histological features of duodenum, jejunum and jleum	C2	
	• Discuss the location and function of villi, crypts of liberkuhn and	C2	
	• microvilli in different parts of small intestine	C2	
	• Discuss different cells lining the epithelium of small intestine	C2	
	• Discuss histological aspects of celiac disease and crohn disease	C2	
HISTOLOGY	Correlate with the clinical conditions	C3	
Small Intestine	• Understand curative and preventive heath care measures	C3	
	• To practice the principles of bioethetics	C3	
	• Apply strategic use of A.I in health care	C3	
	Read relevant research articles	C3	
	• Use of HEC digital library	C3	
HISTOLOGY	• Describe histological features of parts of large intestine.	C2	
Large Intestine I	Discuss cells lining the epithelium	C2	
(General	• Explain concept of tenaei coli.	C2	
Histological	• Differentiate histological structure of the large intestine from the small	C2	
Features)	intestine.		
	Correlate with the clinical conditions	C3	
	Understand curative and preventive heath care measures	C3	
	To practice the principles of bioethetics	C3	
	• Apply strategic use of A.I in health care	C3	
	Read relevant research articles	C3	
	• Use of HEC digital library	C3	
	Correlate with the clinical conditions	C3	
	• Describe histological features of appendix, caecum, rectum and anal canal		
	Discuss clinical conditions (Colorectal cancer)		
HISTOLOGY	Correlate with the clinical conditions	C3	
Large Intestine II (Histological Features of different parts)	Understand curative and preventive heath care measures	C3	
	To practice the principles of bioethetics	C3	
	• Apply strategic use of A.I in health care	C3	
	Read relevant research articles	C3	
	• Use of HEC digital library	$C^3$	

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of lecture students should be able to	Domain	Strategy	Tools
	• Explain the physiologic anatomy of GIT	C2		
	Summarize the functions of GIT	C1		
	• Explain the electrical activity of GIT smooth muscle	C2		
	• Describe the concept of slow waves and spike potentials	C1		
Introduction to GIT	• Explain resting membrane potential and factors affecting RMP	C2		SEO
Flectrical activity in	• Explain role of calcium ions in muscle contraction	C2	LGIS	MCO
GIT	• Describe tonic contraction in GIT smooth muscles	C1	LOIS	VIVA
Movements of GIT	• Enumerate different types of movements in GIT	C1		
	• Define propulsive movements	C1		
	• Define mixing movements	C1		
	• Describe sites of peristaltic movement in GIT	C1		
	• Describe stimulus, mechanism and direction of peristaltic movement	C1		
	• Discuss role of Myenteric plexus in peristaltic movement	C2		
	• Explain peristaltic reflex and Law of gut	C2		
	• Describe mechanism and function performed by mixing movements	C1		
	• Describe physiological anatomy of enteric nervous system	C1		
	• Enlist functions of enteric nervous system	C1		
Enteric nervous	Compare and contrast Myenteric and Meissner's plexus	C2		SEQ
system and GIT	• Enumerate neurotransmitters of enteric nervous system	C1	LGIS	MCQ
reflexes	• Describe the autonomic regulation of enteric nervous system	C1		VIVA
	• Enumerate afferent sensory connections of enteric nervous system	C1		
	• Discuss the physiology of GIT reflexes	C2		
	• Explain GIT reflexes integrated at the level of gut wall,	C2		
	prevertebral sympathetic ganglia and spinal cord/brain stem			
	• Enumerate hormones of GIT	C2		
Control of GIT	• Describe the hormonal control of GIT motility	C1		
motility and factors	• Explain site of secretion, stimuli for secretion and actions of Gastrin,	C2		SEQ
affecting GIT blood	Cholecystokinin, Secretin, Gastric inhibitory peptide and Motilin		LGIS	MCQ
flow	• Discuss the factors affecting GIT blood flow	C2		VIVA

# Physiology Large Group Interactive Session (LGIS)

	• Recall anatomy of GIT blood supply	C1		
	Explain splanchnic circulation and hepatic portal circulation	C2		
	• Describe the significance of blood flow to liver through portal vein	C1		
	• Describe special organization of blood flow through intestinal	C1		
	villus			
	• Explain factors affecting gastrointestinal blood flow	C2		
	• Describe counter current blood flow in villi.	C1		
	• Explain nervous control of GIT blood supply	C2		
	• Discuss physiological importance of sympathetic vasoconstriction in GIT under special conditions	C2		
	• Describe the secretion and composition of saliva and its physiologic	C1		
	• Describe the nervous regulation of saliva			
	• Describe mastication		LGIS	
	Enumerate functions of mastication			SEQ MCQ
	• Explain role of teeth and muscles of mastication	<u>C2</u>		
Swallowing1 and	• Describe the steps and nervous control center of chewing reflex			
(Mastication and	Introduce swallowing			VIVA
Saliva)	• Enumerate stages of swallowing (voluntary/involuntary)			
	• Explain in detail each stage of swallowing	C2		
	• Voluntary stage Mechanism			
	• Pharyngeal stage (reflex act)			
	- Stimulus, receptors, anerents, center, encient, encients,			
	<ul> <li>Relate pharyngeal stage with process of respiration</li> </ul>		-	
	<ul> <li>Esophageal stage</li> </ul>			
	• Primary peristalsis Secondary peristalsis (stimulus, afferent,	C2		
	center, efferent, response)			
Swallowing -II	Describe physiological anatomy and function of Lower esophageal	C1		
	sphincter		LGIS	SEQ
υ	• Explain receptive relaxation of stomach with nervous pathway	C2	LGIS	MCQ
C	<ul> <li>Explain receptive relaxation of stomach with nervous pathway</li> <li>Describe physiological anatomy and function of distal end of esophagus</li> </ul>	C2 C1	LGIS	MCQ VIVA

Clinical disorders of swallowing	• Describe causes, effects and treatment of achalasia cardia	C1		
	Define vomiting	C1		SEQ
	Describe stimuli & nervous pathway of vomiting	C1	LGIS	MCQ
(Achalasia cardia,	Discuss act of vomiting	C2		VIVA
vomiting & nausea)	Describe chemoreceptor trigger zone	C1		
	• Define nausea	C1		
	• Enlist causes of nausea	C2		
	• Discuss in detail gastric factors that promote emptying and	C2		
Regulation of	duodenal factors that inhibit emptying			SEQ
Stomach emptying	• Explain the role of enterogastric nervous reflexes and hormonal	C2	LGIS	MCQ
	feedback			VIVA
	Recall physiological anatomy of stomach	C1		
	• Describe motor functions of stomach in detail	C1		
	1. Storage			~ ~ ~
Motor functions of	2. Mixing and propulsion of food chyme and Hunger contractions		LGIS	SEQ
stomach	3. Stomach emptying			MCQ
	4. Role of pyloric pump			VIVA
	Discuss role of pyloric sphincter	C2		
	• Describe the secretion of gastric juice.	C1		
	a. Describe the basic mechanism of HCl secretion.			
	b. Describe the secretion and activation of pepsinogen			
Gastric juice-I and	c. Describe the secretion of intrinsic factor			~~~~
Digestion in stomach	d. Describe the secretion of mucous and gastrin		I GIG	SEQ
Physiological barrier	e. Describe the regulation of gastric acid and pepsinogen secretion	~ ~ 1	LGIS	MCQ
protecting	• Summarize the digestive process occurring in stomach	Cl		VIVA
development of	• Discuss the role of gastric juice, hormones and enzymes acting in	C2		
peptic ulcer	stomach			
	• Discuss sites, causes and physiological factors preventing peptic	C2		
	ulcer			
Liver & gall bladder,	Recall physiological anatomy of liver & portal circulation	C1	I GIG	850
	• Describe in detail metabolic and non metabolic functions of liver	C1	LGIS	SEQ MCO
secretions	• Explain the mechanism of secretion of bile.	C2		VIVA
	• Explain the functions of biliary tree.	C2		
	• Describe the composition of bile.	C1		
	• Explain the role of bile in fat digestion.	C2		
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	• Explain the formation of gall stones.	C2		
	• Enlist liver functions test	C1		SEQ
LFTs and jaundice	Describe liver function tests	C1	LGIS	MCQ
	• Discuss in detail pathophysiology of jaundice	C2		VIVA
	• Describe causes and effects of cirrhosis	C1		SEQ
Cirrhosis & portal	• Describe causes and effects of portal hypertension	C1	LGIS	MCQ
hypertension				VIVA
Physiology of	• Discuss composition of pancreatic secretions	C2		SEQ
pancreas Pancreatic	• Describe mechanism of secretion of bicarbonate ions	C1	LGIS	MCQ
secretions	• Describe the regulation and phases of pancreatic secretion.	C1		VIVA

	• Enumerate dietary sources of carbohydrates	C1		
	• Describe the structure of villi.	C1		
Digestion and Absorption –I	• Enumerate the features of small intestine which increase its surface area	C1		
(digestion and absorption of	• Explain in detail mechanism of absorption of fluids, ions & carbohydrates	C2	LGIS	SEQ MCQ
carbohydrates and	• Enumerate dietary sources of proteins.	C1		VIVA
proteins )	• Describe the role of hydrolysis in digestion of food.	C1		
	• Explain in detail the digestion of proteins with emphasis on enzymes at relevant steps.	C2		
	• Describe the sites of absorption	C1		
Digestion and	• Enumerate dietary sources of fats	C1		
absorption-II	• Explain in detail the digestion of lipids in relation to bile	C2		SEQ
(digestion and			LGIS	MCQ
absorption of lipids)				VIVA
	Recall functions of large intestine	C1		
Movements & functions of large intestine (motor	• Discuss in detail mixing and propulsive movements	C2	LGIS	SEQ
	• Explain the role of Gastrocolic & Duodenocolic reflex in	C2		MCQ
	large intestine motility	C2		VIVA
gut and defecation)	• Enumerate causes of empty rectum	C1		
gut and detecation)	• Explain defecation reflex, its importance and nervous control	C2		

Flatus &	Discuss composition of feces	C2		
constipation	• Enlist causes of flatus	C1		
	Discuss causes and effects of constipation	C2		
	• Explain the general principles of alimentary tract secretion	C2		
	• Enlist the stimuli for alimentary tract secretion	C1		SEQ
Hormones of GIT	• Describe the basic mechanism of secretion by glandular cells	C1	LGIS	MCQ VIVA
	• Elaborate the role of autonomic stimulation on glandular secretion	C2		
	• Enlist types of movements of small intestine	C1		
Small intestine	• Discuss in detail mixing contractions and propulsive movements	C2		
motility, Diarrhea,	• Describe peristaltic rush	C1	1 010	SEQ
malabsorption & sprue, ulcerative colitis and paralytic ilius	• Explain functions of ileocecal valve and feedback control of	C2	LGIS	MCQ
	ileocecal sphincter			VIVA
	• Discuss causes, types and effects of diarrhea, malabsorption and	C2		
	sprue			
	• Discuss causes and effects of Ulcerative colitis & paralytic ilius	C2		

## **Biochemistry Large Group Interactive Session (LGIS)**

Topic	Learning Objectives At The End Of Lecture Students Should Be Able To	Learning Domain	Teaching Strategy	Assessment
Introduction to Carbohydrate metabolism	<ul> <li>Understand metabolic pathways</li> <li>Discuss glucose entry into the cells</li> </ul>	C2 C2	LGIS	MCQs, SAQs Viva
Glycolysis and Fates of Pyruvate	<ul> <li>Explain types, reactions and regulation of Glycolysis</li> <li>Describe fates of Pyruvate</li> <li>Explain related clinical disorders</li> </ul>	C2 C2 C3	LGIS	MCQs, SAQs Viva
Gluconeogenesis	Discuss substrates, reactions and regulation of Gluconeogenesis	C2	LGIS	MCQs, SAQs Viva
Glycogen metabolism	• Explain the steps and regulation of glycogenesis and glycogenolysis	C2	LGIS	MCQs, SAQs Viva

	Describe the metabolism of individual sugars	C2		MCQs,
Metabolism of	Explain related clinical disorders	C3	LGIS	SAQs
Individual Sugars				Viva
	Explain the pathway of HMP shunt	C2		MCQs,
HMP Shunt and	Discuss uses of NADPH	C2	LGIS	SAQs
G6PD deficiency	Describe G6PD deficiency	C3		Viva
	Describe the composition and role of digestive juices	C2		MCQs,
GIT Digestive juices	Explain role of gastrointestinal hormones	C2	LGIS	SAQs
and Hormones	Understand related clinical disorders	C3		Viva
	Understand BMI and BMR	C2		MCQs,
Nutrition	Explain the role of different dietary constituents	C2	LGIS	SAQs
	Understand related clinical disorders	C3		Viva
		~~~		
	Discuss Liver function tests and Jaundice	C3		MCQs,
LFTs and Jaundice			LGIS	SAQs
				Viva
	Explain the digestion and absorption of carbohydrates, lipids and	C2		MCQs,
Digestion and	proteins		LGIS	SAQs
Absorption	Discuss the role of different digestive enzymes	C2		Viva
	Describe related clinical disorders	C3		

Topic	Learning Objectives	C/P/A	Teaching	Assessment
	Students Should Be Able To		Strategy	Tool
	• Enlist components of gastrointestinal tract	C1		
	• Mark the planes dividing the abdomen into nine quadrants	Р		
	• Enumerate the parts of GIT lying in the various quadrants	C1		SAQ
Topographical	• Correlate with the clinical conditions	C3		MCQ
organization of	• Understand curative and preventive heath care measures.	C3	Skill lab	VIVA
Gastrointestinal	• Practice the principles of bioethetics	C3		OSPE
tract	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	Define the boundaries of oral cavity	C2		
	• Tabulate the Extrinsic and Intrinsic muscles of the tongue,	C2		
Oral Cavity,	anatomical location and clinical importance of tongue			
	Brief Introduction of salivary glands with their anatomical	C1		SAQ
tongue and	location			MCQ
salivary glands,	• Correlate with the clinical conditions	C3	Skill lab	VIVA
	• Understand curative and preventive heath care measures.	C3		OSPE
	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Explain the layers of abdominal wall.	C2		
	• Explain the fascia and muscles of abdominal wall.	C2		
	• Describe nerve supply of anterior and lateral abdominal wall.	C2		SAQ
	• Explain the segmental sympathetic supplies	C2	Skill lab	MCQ
Anterolateral	Abdominal Hernias	C1		VIVA
abdominal wall	• Correlate with the clinical conditions	C3		OSPE
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		

## Anatomy Small Group Discussion (SGDs)

	• Use of HEC digital library	C3		
	Describe Formation of rectus sheath	C2		
	• Enlist contents of rectus sheath	C2		
	Discuss associated clinical anatomy	C2		
	• Correlate with the clinical conditions	C3		
Rectus sheath,	• Understand curative and preventive heath care measures.	C3	01 11 1 1	SAQ
	• Practice the principles of bioethetics	C3	Skill lad	MCQ
	• Apply strategic use of A.I in health care	C3		OSPE
	• Read relevant research articles	C3		OSFL
	• Use of HEC digital library	$C_3$		
	Describe Walls of Inquinal Canal	$C_2$		
	<ul> <li>Explain Deen &amp; Superficial Inquinal Ring</li> </ul>	C2		
	<ul> <li>Explain Deep &amp; Superioral inguinal King</li> <li>Enumerate Structures passing through the inguinal canal</li> </ul>	C1		
	Endinerate Structures passing through the inguinar canar     Enlist Coverings of spermatic cord	C1		
	Emist Coverings of spermatic cord     Explain Mechanics of the inquinal Canal	$C^2$		
	<ul> <li>Describe boundaries of Hassalbachs triangle</li> </ul>	$C^2$		
Inguinal Region				
& Inguinal	Define hernia	CI		SAQ
Hermas	• Differentiate indirect from direct inguinal hernia	C3		MCQ
	• Map outline of inguinal canal on simulated patient /model	P+A	Skill lab	VIVA
	• Correlate with the clinical conditions	$C_3$		OSPE
	• Understand curative and preventive heath care measures.	$C_3$		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	05		
	• Use of HEC digital library	<u></u>		
	Define Anatomy of Testes and Scrotum			
	Differentiate between Protective Coverings of Testes & scrotum	C2		540
Tastas scrotum	Enumerate Nerve & blood supply of these Structures	C1		SAQ MCO
Testes, scrotum	Discuss the parts of epididymis	C2	Skill lah	VIVA
	• Discuss Spermatocoele, Varicocoele, Hematocoele, hydrocoele,	C2	SKIII Ido	OSPE
	Testicular torsion	<b>C</b> 2		
	Correlate with the clinical conditions	$C_3$		
	Understand curative and preventive heath care measures.	03		

	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	<ul> <li>Read relevant research articles</li> </ul>	C3		
	• Use of HEC digital library	C3		
		C3		
	Define peritoneum	C1		
	• Explain the different folds of peritoneum.	C2		
	• Describe greater and lesser sacs	C2		
	Enlist the intra and retroperitoneal viscera	C1		SAQ
Peritoneum &	Discuss vertical tracings of peritoneum	C2	01-111 1-1-	MCQ
Peritoneal	• Correlate with the clinical conditions	C3	SKIII Iad	VIVA
Cavity	• Understand curative and preventive heath care measures.	C3		OSPE
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	<ul> <li>Read relevant research articles</li> </ul>	C3		
	• Use of HEC digital library	C3		
	• Describe arrangement of peritoneum in transverse & Longitudinal	C2		
	section of abdomen			
	• Describe arrangement of peritoneum in transverse section of male	C2		
	pelvis			SAQ
Subdivisons of	• Explain arrangement of peritoneum in transverse section of female	C2	Skill lab	MCQ
Peritoneal	pelvis			VIVA
Cavity	• Explain the layers, folds, recesses and compartments of peritoneum	C2		OSPE
	with their clinical importance			
	Describe peritonitis	C2		
	• Enumerate the signs and symptoms of peritonitis	C3		
	• Treat peritonitis by antibiotics and peritoneal dialysis	C3		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
Esophagus	Discuss gross features of abdominal part of esophagus	C2		

	• Enumerate their peritoneal & visceral relations.	C1		SAQ
	• Explain blood supply, lymphatic drainage & nerve supply of	C2	Skill lab	MCQ
	esophagus			VIVA
	Discuss Esophageal varices	C2		OSPE
	Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Explain gross features of stomach.	C2		
Stomach	• Discuss blood supply, lymphatic drainage & nerve supply of	C2		SAQ
	stomach			MCQ
	• Explain peritoneal & visceral relations of stomach	C2	Skill lab	VIVA
	• Discuss greater and lesser omentum	C2		OSPE
	• Describe formation and boundaries of epiploic foramen	C2		
	• Map outline of stomach on simulated patient /model	P+A		
	Correlate with the clinical conditions			
	• Understand curative and preventive heath care measures.	C3		
	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	$C_3$		
	• Use of HEC digital library	CS		
	• Describe the different parts of duodenum with their anatomical	C2		
	differences			
	• Enumerate the relations of different parts of duodenum	C1		
Small Intestine	Discuss its clinical importance	C2		SAQ
(Duodenum)	• Map outline of duodenum on simulated patient /model	P+A	01 111 1 1	MCQ
	Correlate with the clinical conditions	C3	Skill lab	VIVA
	• Understand curative and preventive heath care measures.	C3		USPE
	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	$C_3$		
	• Use of HEC digital library	0.5		

	• Describe jejunum and ileum with their anatomical features	C2		
	Discuss mesentery and its attachment	C2		
	Discuss its clinical importance	C2		
	• Correlate with the clinical conditions	C3		SAQ
Small Intestine (Jejunum and	• Understand curative and preventive heath care measures.	C3		MCQ
	• Practice the principles of bioethetics	C3	Skill lab	VIVA
lleum)	• Apply strategic use of A.I in health care	C3		OSPE
	• Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Enlist various parts of large intestine	C1		
Large Intestine	• Demonstrate gross anatomical features of different parts of large	C2		
	intestine			
	• Enlist intra and retroperitoneal parts of large intestine	C1		SAQ
	Discuss gross features of caecum	C2	01.11.1.1	MCQ
& Appendix	• Describe gross anatomy of appendix	C2	Skill lab	VIVA
	• Enlist different anatomical positions of vermiform appendix.	C1		USPE
	Mark McBurney's point	Р		
	Demonstrate McBurney's incision	Р		
	• Discuss common features, differential diagnosis of acute	C3		
	appendicitis and appendicectomy			
	• Map outline of Transverse and descending colon on simulatrs	P+A		
	patient /model			
	Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	Practice the principles of bioethetics	$C_3$		
	• Apply strategic use of A.I in health care	$C_3$		
	Read relevant research articles			
	Use HEC digital library	0.5		
	Describe the anatomical structure of liver.	C2		
	Describe the lobes, surfaces and segments of liver	C2	01.11.1.1	
	• Describe peritoneal reflections, ligaments and bare area of liver.	C2	Skill lab	SAQ
Liver Dortal	Enumerate visceral relations of liver.	C1		MCQ
Liver, Portal	• Enlist the structures in porta hepatis.	C1		VIVA

hypertension,	Discuss Sub hepatic abscess & Live Biopsy	C2		OSPE
Portosystemic	Discuss formation, course and parts of portal vein	C2		
Anastomosis	• Enumerate relations and tributaries of portal vein	C1		
	Define portal hypertension	C1		
	• Describe sites of the portocaval anastomosis and their clinical	C2		
	significance			
	• Explain role of portocaval shunts	C2		
	• Map outline of liver on simulated patient /model	P+A		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	$C_3$		
	• Read relevant research articles	$C_3$		
	• Use HEC digital library	$C_3$		
	Describe location & size of gall bladder	C2		
	• Enumerate relations of gallbladder.	C1		
	Describe clinical conditions related to gallbladder	C2		
	• Enlist different components of Extra-hepatic biliary System	C1		
	• Discuss the right & left hepatic ducts, common hepatic duct, cystic	C2		
	ducts, bile duct			SAO
	• Explain differences between Intra & Extra Hepatic Biliary	C2		MCO
Gallbladder and	Systems.		Skill lab	VIVÀ
Biliary apparatus	Discuss clinicals related with biliary apparatus	C2		OSPE
	Discuss accessory hepatic ducts	C2		
	• Map outline of gallbladder & Bile duct on simulated patient /model	P+A		
	• Correlate with the clinical conditions	<b>C</b> 2		
	• Understand curative and preventive heath care measures.	$C_3$		
	<ul> <li>Practice the principles of bioethetics</li> </ul>	$C_3$		
	• Apply strategic use of A.I in health care	$C_3$		
	Read relevant research articles	$C_3$		
	• Use HEC digital library	05		

	• Discuss anatomical location and features of spleen with its blood supply, and lymphatic drainage	C2		
	• Explain Dupture of onloan & its offects	C2		
	• Explain Rupture of spleen & its effects	$D \perp \Lambda$		SAO
Spleen	• Map outline of spleen on simulated patient /model	$\Gamma + \Lambda$	Skill lab	MCO
~	• Correlate with the clinical conditions	C3		VIVA
	• Understand curative and preventive heath care measures.	C3		OSPE
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	• Read relevant research articles	C3		
	• Use of HEC digital library	~~~		
	Recall location, shape, dimensions and extent of pancreas	C2		
	Discuss parts, ducts and relations of pancreas	C2		SAQ
	Describe arterial supply of pancreas	C2	Skill lab	
	• Explain applied aspects of pancreas	C2		MCQ
Domonoog	• Map outline of pancrease on simulated patient/ model	P+A		VIVA
Pancreas	• Correlate with the clinical conditions	C3		USPE
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3 C2		
	• Use of HEC digital library	C3		
	• Describe the position and the vertebral levels of aorta in the	C2		
	abdomen.			
	• Enlist the main branches of the aorta and its territories.	C1		
	• Explain the applied anatomy of the aorta	C1	01.11.1.1	SAQ
Vasculature of	• Explain origin, course, branches and distribution of celiac trunk	C2	Skill lab	MCQ
GII	• Map outline of abdominal aorta, coeliac trunk, superior & inferior	P+A		VIVA
	mesenteric artery on simulated patient/ model	C3		OSPE
	Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library			

	• Discus enteric nervous system with formation of plexuses and its	C2		
	parasympathetic role		C1	SAQ
	• Enlist the types of lymph nodes draining the abdomen	C1		
	• Describe lymphatic drainage of GIT with special reference to	C2	01.11.1.1	
Nerve supply	lymphatic trunks, cisterna chyli & the thoracic duct		Skill lab	MCQ
and Lymphatic	• Correlate with the clinical conditions	C3		VIVA
drainage of GIT	• Understand curative and preventive heath care measures.	C3		OSPE
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	• Identify different visceras located at different levels of vertebral	C1		
	coloumn; T10,T11,T12,L1,L2			
	Correlate with the clinical conditions	C3		SAQ
Cross Sectional	• Understand curative and preventive heath care measures.	C3	Skill lab	MCQ
Anatomy	Practice the principles of bioethetics	C3		VIVA
	• Apply strategic use of A.I in health care	C3		OSPE
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
	Discuss the location and extent of rectum	C2		
	• Describe the internal and external features of rectum	C2		
Rectum	• Discuss peritoneal reflections rectouterine, rectovesical fossae and	C2	~	SCQ
	their clinical significance		Skill lab	MCQ
	• Enumerate relations of rectum	C1		VIVA
	• Discuss blood supply, nerve supply, venous and lymphatic	C1		OSPE
	drainage			
	• Describe the basis and features of rectal prolapsed	C3		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	C3		
	• Use of HEC digital library	C3		
Anal canal	Discuss location and extent of anal canal	C2	Skill lab	SAQ

	• Describe external and internal features of Anal Canal	C2		MCQ
	Discuss features of anal sphincters	C2		VIVA
	• Tabulate relations of the anal canal with the surrounding structures	C2		OSPE
	• Describe the Blood supply, venous and lymphatic drainage &	C2		
	innervations of anal canal			
	Discuss anal continence	C2		
	• Differentiate between internal and external haemorrhoids	C3		
	• Correlate with the clinical conditions	C3		
	• Understand curative and preventive heath care measures.	C3		
	• Practice the principles of bioethetics	C3		
	• Apply strategic use of A.I in health care	C3		
	Read relevant research articles	$C_3$		
	• Use of HEC digital library	C3		
	• Identify structures on a normal X-ray abdomen	C2		
	Appreciate Air fluid shadows.	C2		
	Mark anatomical landmarks.	C2		
Radiological Anatomy	Correlate the clinical conditions	C3	Skill lab	OSPE
	• Understand the preventive and curative health care measures	C3		
	• Practice the principles of Bioethics	C3		
	• Apply Strategic use of AI in health care	C3		
	Read relevant research articles	C3		
		C3		

# Physiology Small Group Discussion (SGDs)

Topic	Learning Objectives	Learning	Teaching	Assessment
		Domain	Strategy	10015
	Enlist general four functions performed by GIT	CI	_	
Introduction to	Recall physiological anatomy and blood flow through GIT	C1		SEQ
GIT	Briefly discuss electrical activity of GIT smooth muscle	C1	SGD	MCQ
				VIVA
	• Discuss in detail the three stages of swallowing	C2		SEQ

Swallowing	• Briefly discuss physiological anatomy of lower esophageal sphincter and distal end of esophagus and state their functional importance.	C2	SGD	MCQ VIVA
	runctional importance	~ .		~ ~ ~
	Recall physiological anatomy of stomach	C1	-	SEQ
	• Describe motor functions of stomach including storage, mixing,	C1		MCQ
Functions of	propulsion and stomach emptying.		SGD	VIVA
stomach	Discuss in detail gastric factors that promote emptying	C2		
	• Explain the role of enterogastric nervous reflexes and	C2		
	hormonal feedback.			
	Recall physiological anatomy of liver	C1		SEQ
Liver functions	Discuss formation and storage of bile		SGD	MCQ
	• Enlist and describe all functions performed by liver	C1		VIVA
	• Describe in detail the process of digestion of carbohydrates,	C1		
Digestion and proteins and fats with special emphasis on enzymes involved at each step				SEQ
			SGD	MCQ
1	• Discuss special features of small and large intestine to promote	C2		VIVĂ
	absorptive process and mechanism of absorption in detail			
	Recall movements and functions of large intestine	C1		
	Enumerate causes of empty rectum	C1		
Large intestine	• Explain defecation reflex, its importance and nervous	C2		SEQ
	control		SGD	MCQ
	• Explain GIT reflexes integrated at the level of gut wall,	C2		VIVA
	prevertebral sympathetic ganglia and spinal cord/brain stem.			

## **Biochemistry Small Group Discussion (SGDs)**

Topic	Learning Objectives		Teaching	Assessment
	Students Should Be Able To	Domain	Strategy	Tool
	• Explain formation, composition & biochemical functions	C2		MCQs
Saliva			SGD	SAQs
				Viva
Gluconeogenesis &	• Discuss substrates, reactions and regulation of Gluconeogenesis	C2		MCQs
its regulation			SGD	SAQs
				Viva
	<ul> <li>Discuss Liver function tests and Jaundice</li> </ul>	C3		MCQs
LFT's Jaundice			SGD	SAQs
				Viva

Topics of SDL	Learning Objectives	Learning Resources	
	Students Should Be Able To		
	• Explain the layers of abdominal wall.	**	Clinical Oriented Anatomy by Keith L.
Antero lateral	• Explain the fascia and muscles of abdominal wall.		Moore.7 <sup>TH</sup> Edition. (Chapter 2, Page 183,184-
abdominal wall,	• Describe nerve supply of anterior and lateral abdominal		216).
	wall.	**	https://3d4medical.com/
	• Explain the segmental sympathetic supplies		
	Describe Formation of rectus sheath	**	Clinical Oriented Anatomy by Keith L.
Rectus sheath	• Enlist contents of rectus sheath		Moore.7 <sup>TH</sup> Edition. (Chapter 2, Page 188-201).
		*	https://teachmeanatomy.info/
	Describe Walls & detailed anatomy of Inguinal Canal	*	Clinical Oriented Anatomy by Keith L.
Inguinal region &	Explain Deep & Superficial Inguinal Ring		Moore.7 <sup>11</sup> Edition. (Chapter 2, Page 197, 202-
Hermas	Associated Clinicals		203, 212-213).
		•••	https://3d4medical.com/
	Define peritonoum	•••	Clinical Oriented Anatomy by Keith I
	Explain the different folds of peritonoum	-	Moore 7 <sup>TH</sup> Edition (Chapter 2 Page 219-221)
	Explain the different folds of peritoheum.	•	https://teachmeanatomy.info/
	Describe greater and retroportioned viscore	-	
	Ellist the little and retropertoneal viscera		
Peritoneum &	Discuss vertical tracings of peritoneum		
Peritoneal	• Describe arrangement of peritoneum in transverse &		
Cavity.	Describe emengement of peritonoum in transverse section of	_	
	Describe arrangement of peritoneum in transverse section of male pelvis		
	• Explain arrangement of peritoneum in transverse section of		
	female pelvis		
	• Explain the layers folds recesses and compartments of		
	peritoneum with their clinical importance		
	Describe peritonitis		
	• Enumerate the signs and symptoms of peritonitis		
	<ul> <li>Treat peritonitis by antibiotics and peritoneal dialysis</li> </ul>		
	• Describe the different parts of duodenum with their	*	Clinical Oriented Anatomy by Keith L.
	anatomical differences		Moore.7 <sup>TH</sup> Edition. (Chapter 2, Page 239, 241,
	1	- I	

## Anatomy Self Directed Learning (SDL)

Small Intestine	Enumerate the relations of different parts of duodenum     Discuss its alinical importance		244, 245, 325, 436). https://www.kenhub.com/en/library/anatomy/th	
	Discuss its chinical importance	-	e-digestive-system	
Longo Intestino	Anatomy of Jejunum & Heum     Enlist environments of longe interting	_	e digestive system	
Large Intestine	• Enlist various parts of large intestine			
	• Demonstrate gross anatomical features of different parts of	**	Clinical Oriented Anatomy by Keith L. $7^{\text{TH}}$ Filting (Clinical Decision) of the second	
	large intestine		Moore. / The Edition. (Chapter 2, Page	
	• Enlist intra and retroperitoneal parts of large intestine		227,240,246, 323).	
		***	e-digestive-system	
	Describe formation of hepatic diverticulum	*	Clinical Oriented Anatomy by Keith L.	
	• Describe histogenesis of liver during intrauterine life		Moore.7 <sup>1H</sup> Edition. (Chapter 2, Page 267-268,	
<b>T 1</b>	• Describe formation of various ligaments of liver.		272-278, 282,323, 395).	
Liver and	Discuss congenital abnormalities of liver	•	https://www.kenhub.com/en/library/anatomy/th	
pancreas	• Differentiate between exocrine and endocrine pancreas.	endocrine pancreas. e-digestive-system		
	• Discuss the cellular structure and function of exocrine			
	pancreatic acinus and ducts.			
	• Explain the applied anatomy of the aorta	*	Clinical Oriented Anatomy by Keith L.	
Vasculature of	• Explain origin, course, branches and distribution of celiac trunk		Moore.7 <sup>11</sup> Edition. (Chapter 2, Page 228-233, 249-250, 263-285).	
GIT (Blood	• Discuss formation, course and parts of portal vein	*	http://www.anatomyzone.com 3D anatomy	
Supply, Venous	• Enumerate relations and tributaries of portal vein			
drainage,	Define portal hypertension			
drainage)	Discuss Major Lymphatic Channels			
	Discuss the location and extent of rectum	*	Clinical Oriented Anatomy by Keith L.	
	• Describe the internal and external features of rectum		Moore.7 <sup>TH</sup> Edition. (Chapter 2, Page 239,	
	Discuss peritoneal reflections rectouterine, rectovesical		248,253 368-371,436,438).	
	fossae and their clinical significance	**	http://www.anatomyzone.com 3D anatomy	
	• Enumerate relations of rectum			
Rectum & Anal	• Discuss blood supply, nerve supply, venous and lymphatic			
Callal	drainage			
	Describe the basis and features of rectal prolapsed			
	• Discuss location and extent of anal canal			
	• Describe external and internal features of Anal Canal			
	• Discuss features of anal sphincters			

	<ul> <li>Tabulate relations of the anal canal with the surrounding structures</li> <li>Describe the Blood supply, venous and lymphatic drainage &amp; innervations of anal canal</li> <li>Discuss anal continence</li> <li>Differentiate between internal and external hemorrhoids</li> </ul>	-	
Innervation of	Discuss cutaneous & Somatic innervation of GIT	*	Clinical Oriented Anatomy by Keith L.
Abdominal	Describe Autonomic innervation of GIT		Moore.7 <sup>TH</sup> Edition. (Chapter 2, Page 301-305).
Viscera's		*	http://www.anatomyzone.com 3D anatomy

# Physiology Self Directed Learning (SDL)

Topics Of SDL	Learning Objectives Students Should Be Able To	Learning Resources
Introduction to GIT, electrical activity in GIT, Enteric Nervous System and GIT reflexes	<ul> <li>Introduction</li> <li>Role of GIT in control system</li> <li>Concept of Enteric nervous system</li> <li>GIT reflexes and its clinical correlation</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition. Overview of gastrointestinal function andregulation (Chapter 25, Page 453,467,472).</li> <li>Human Physiology by Dee Unglaub Silver thorn. 8<sup>TH</sup> Edition. The Digestive System (Chapter 21Page 691,700)</li> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology (Chapter 8. Page 339)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 43, Page 681)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology. Section 12. (Chapter 63, Page 787)</li> </ul>
Gastric secretion, digestion in stomach, peptic ulcer and gastritis	<ul> <li>Gastric secretion and role in digestion</li> <li>Peptic ulcer disease</li> <li>Type of gastritis and clinical importanceof gastritis</li> <li>Investigations to diagnose gastritis</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology. Overview of gastrointestinal function and regulation(Chapter 25, Page 455).</li> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology (Chapter 8. Page356,360)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 44, Page 706) (Chapter 45, Page 720,726)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology. Section 12. (Chapter 65, Page 809,811)</li> </ul>

Small intestine motility and malabsorption (sprue, paralytic ileus and Crohn's disease)	<ul> <li>Factors affecting motility of smallintestine</li> <li>Concept of absorption of nutrients</li> <li>Importance of history in diagnosis ofvarious malabsorption diseases</li> <li>Inflammatory bowel disease</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition, Gastrointestinal motility. (Chapter 27,Page 495)</li> <li>Human Physiology by Dee Unglaub Silver thorn. 8<sup>TH</sup> Edition. The Digestive System (Chapter 21,Page 697)</li> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology (Chapter 8. Page 348)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 44,Page 690,710)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology.Section 12. (Chapter 64, Page 797,802)</li> </ul>
Intestinal secretion and its functions, pancreatic juice, its composition and functions	<ul> <li>Intestinal secretions and action</li> <li>Anatomy of pancreas and its blood supply</li> <li>Composition of pancreatic juice and itsrole in absorption</li> <li>Function of pancreas</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition.Overview of gastrointestinal function and regulation (Chapter 25, Page 460).</li> <li>Human Physiology by Dee Unglaub Silver thorn. 8<sup>TH</sup> Edition. The Digestive System (Chapter 21, Page 709)</li> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology (Chapter 8. Page366,371)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 45, Page 738, 739)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology.Section 12. (Chapter 65, Page 814, 820)</li> </ul>
Pancreatitis, overall mechanism of digestion and absorption of intestine (amino acids, fatty acids and glucose)	<ul> <li>Pancreatitis</li> <li>Conclusion of digestion and absorption of nutrients.</li> <li>Clinical correlation with pancreaticenzymes.</li> <li>Hormones secreted by pancreas</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition. Digestion, Absorption and NutritionalPrinciples. (Chapter 2, Page 475)</li> <li>Human Physiology by Dee Unglaub Silver thorn. 8<sup>TH</sup> Edition. The Digestive System (Chapter 21,Page 703-710,715)</li> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology (Chapter 8. Page 374)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 47,Page 770)(Chapter 48,Page 785)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology.Section 12. (Chapter 66, Page 823)</li> </ul>

Motor function of large gut, defecation reflex	<ul> <li>Motor function of large gut</li> <li>Inflammatory bowel disease</li> <li>Defecation reflex</li> <li>Concept of Hemorrhoids</li> </ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition, Gastrointestinal motility. (Chapter 27,Page 495)</li> <li>Human Physiology by Dee Unglaub Silver thorn. 8<sup>TH</sup> Edition. The Digestive System (Chapter 21,Page 720)</li> <li>Physiological Basis of Medical Practice by Best &amp; Taylor's.13<sup>th</sup> Edition. Section 6.Gastrointestinal System. (Chapter 44,Page 713)</li> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition. Gastrointestinal Physiology.Section 12. (Chapter 64,Page 804)</li> </ul>	
Pathophysiology (vomiting, diarrhea,	<ul><li>Symptomsrelated to GIT</li><li>Clinical role of various symptoms</li></ul>	<ul> <li>Ganong's Review of Medical Physiology.25<sup>TH</sup> Edition, Gastrointestinal motility. (Chapter 27,Page495)</li> </ul>	
constipation,	• Overview of Carcinoma of stomach,	<ul> <li>Physiology by Linda S. Costanzo 6<sup>th</sup> Edition. Gastrointestinal Physiology</li> </ul>	
ulcerative colitis,	smalland large intestine	(Chapter 8. Page 385)	
megacolon and		<ul> <li>Textbook of Medical Physiology by Guyton &amp; Hall.14<sup>th</sup> Edition.</li> </ul>	
carcinoma of colon)		Gastrointestinal Physiology.Section 12. (Chapter 67, Page 833)	

## **Biochemistry Self Directed Learning (SDL)**

Topics of SDL	Learning Objectives Students Should Be Able To	References
Carbohydrate Metabolism & Glycolysis	<ul> <li>Understand stages of metabolism</li> <li>Explain transport of glucose across cell memebrane</li> <li>Describe steps of glycolysis</li> <li>Discuss regulation of committed steps</li> <li>Explain energy calculation in anaerobic and aerobic conditions</li> <li>Understand pyruvate kinase deficiency</li> </ul>	Reference Book: Lippincott's Illustrated reviews of Biochemistry 8th Edition Chapter#8, Page 100.
TCA Cycle & Gluconeogenesis	<ul> <li>Describe steps of TCA cycle</li> <li>Discuss substrates, steps and regulation of gluconeogenesis</li> </ul>	<ul> <li>Reference Book: Lippincott's Illustrated reviews of Biochemistry 8th Edition Chapter#9, Page 120.</li> <li>Reference Book: Lippincott's Illustrated reviews of Biochemistry 8th Edition Chapter#10, Page 128.</li> </ul>
Glycogen metabolism	<ul><li>Explain synthesis and breakdown of glycogen</li><li>Discuss glycogen storage diseases</li></ul>	<ul> <li>Reference Book: Lippincott's Illustrated reviews of Biochemistry 8th Edition Chapter#11, Page 137.</li> </ul>
Individual Sugars	<ul><li>Descibe the metabolism of individual sugar</li><li>Explain related clinal disorder</li></ul>	<ul> <li>Essentials of Medical Biochemistry Book by Mushtaq Ahmed Edition 9th Volume#1, Chapter#7, Page 186</li> </ul>

	•	<ul> <li>Reference Book: Lippincott's Illustrated reviews of Biochemistry 8th Edition Chapter#19, Page 276, 77.</li> </ul>
Digestion of Lipids by Pancreatic Enzymes	<ul> <li>Explain the digestion and absorption of lipids</li> <li>Discuss the role of pancreatic enzymes in lipid digestion</li> </ul>	*

Topic	At the end of practical students should be able to	Learning	Teaching	Assessment	
		Domain	Strategy	Tool	
	Identify slides of tongue & glands under microscope	Р			
Tongue & salivary	• Illustrate histological structure of tongue & salivary glands	C2	Skill lab	OSPE	
glands	Write two points of identification	C1			
	Identify slide of Esophagus under microscope	Р			
Esophagus	• Illustrate histological structure of Esophagus	C2	Skill lab	OSPE	
	Write two points of identification	C1			
	Identify slide of Stomach under microscope	Р			
	Illustrate histological structure of Stomach	C2		OSPE	
Stomach	Write two points of identification	C1	Skill lab		
	• Differentiate mucosa of cardiac, fundus, body and pyloric	C2			
	end of stomach				
	• Identify slides of Liver, Gall bladder & Pancreas under	Р			
Liver, Gall bladder	microscope		Skill labs	OSPE	
& Pancreas	• Illustrate histological structures of Liver, Gallbladder &	C2			
	Pancreas				
	Write two points of identification	C1			
	• Identify slide of small intestine under microscope	Р			
Small Intestine	• Illustrate histological structure of small intestine	C2	Skill lab	OSPE	
	Write two points of identification	C1			
	Identify slide of Large Intestine under microscope	Р			
Large Intestine	Illustrate histological structure of large intestine	C2	Skill lab	OSPE	
	Write two points of identification	C1			

## Histology Practicals Skill Laboratory (SKL)

Topic	At the end of this skill lab, student should be able to illustrate:	Learning Domain	Teaching Strategy	Assessment Tool
	• Apparatus identification	Р		
Sense of taste	Principle	C1		
	• Procedure	Р	Skill lab	OSPE
	• Precautions	C1		
	• Recall taste modalities, taste pathway & abnormalities of taste	C1		
	• Apparatus identification	Р		
	• Principle	C1		
Examination of	• Procedure	Р	Skill lab	OSPE
sense of smell	• Precautions	C1		
	<ul> <li>Recall Olfactory pathways and abnormalities of olfaction</li> </ul>	C1		
	Apparatus identification	C1		
	Principle	C1		
Examination of	Procedure	A,P		
superficial reflexes	Precautions	Р	Skill lab	OSPE
	Recall reflex arc	C1	-	
	<ul> <li>Recall effects of UMNL &amp; LMNL on reflexes</li> </ul>	C1		
	Apparatus identification	C1		
	Principle	C1		
Examination of deep	Procedure	A,P	Skill lab	OSPE
reflexes	Precautions	Р	-	
	Recall reflex arc	C1		
	• Recall effects of UMNL & LMNL on reflexes	C1		

## Physiology Practicals Skill Laboratory (SKL)

Topic	At the End of Practical Students Should Be Able To	Learning Domain	Teaching Strategy	Assessment Tool
Saliva-I	Understand Normal constituents of saliva Discuss effects of saliva on digestion of starch	Р	Skill Lab	OSPE
	• Discus the role of silva in digestion of carbohydrates	Р		
Silva-II			Skill Lab	OSPE
Bile	<ul><li>Descirbe the composition and role of bile in disgestion</li><li>Understand related disorder</li></ul>	Р	Skill Lab	OSPE
Estimation of ALT & ALP	<ul><li>Perform estimation of ALT</li><li>Perform estimation of ALP</li></ul>	Р	Skill Lab	OSPE
Analysis of Food Component (Wheat)	<ul> <li>Perform to analyse the different constituents of wheat</li> </ul>	Р	Skill Lab	OSPE

## **Biochemistry Practicals Skill Laboratory (SKL)**

### **SECTION - III**

## **Orientation Sessions of Medical Education**

### Content

- Orientation Session on Curricular Reform RMU & Feedback of Year 2023
- Student Session on Standardization of Teaching Strategies

# **Department of Medical Education**

Торіс	Learning Objectives At the end of the lecture the student should be able to	Teaching Strategy	Assessment Tool
Orientation of Integrated Modular system, Intoduction to study guides and RMU Policies	<ul> <li>Understand the concept of integration</li> <li>Understand the orientation of integrated modular curriculum of RMU</li> <li>How to use Study Guides</li> <li>Introduction to different policies of RMU</li> </ul>	LGIS	MCQs
Standardization of Teaching Strategies	<ul> <li>Discuss Standardization of Different Teaching Strategies used in Integrated Model of RMU.</li> </ul>	LGIS	MCQs

### **SECTION - IV**

**Basic and Clinical Sciences (Vertical Integration)** 

## Content

- CBLs
- Vertical Integration LGIS

## **Basic and Clinical Sciences (Vertical Integration)**

## Case Based Learning (CBL)

Subject	Торіс	At the End Of Lecture Students Should Be Able To	Learning Domain
	Acute Appendicitis	Apply basic knowledge of subject to study clinical case.	C3
Anatomy	Liver Cirrhosis	Apply basic knowledge of subject to study clinical case.	C3
	Peptic Ulcer	Apply basic knowledge of subject to study clinical case.	C3
Physiology	Food Poisoning	Apply basic knowledge of subject to study clinical case.	C3
	Glucose 6 Phosphate Dehydrogenase	Apply basic knowledge of subject to study clinical case.	C3
Biochemistry	Deficiency		
	Lactose Intolerance	Apply basic knowledge of subject to study clinical case.	C3

# Large Group Interactive Sessions (LGIS)

## **Community Medicine**

Topic	At The End Of Lecture Students Should Be Able To	Teaching Strategy	Assessment Tool	
	By the end of the session students will be able to;	C1		
	• Define Health			
	• Identify different phases of Health	C1		
Concept of Health	• Elaborate concepts of Health	C2	1.010	
and Disease	• Acknowledge Dimensions of Health	C2	LGIS	MCQs
	• Elucidate Dimensions of health	C2		
	• Appreciate Determinants of Health	C2		
	• Describe the types of determinants	C2		
	Infectious Disease Epidemiology			
	• Define important terms related to infectious disease	C1		
Definitions	epidemiology.			
Epidemic,	• Differentiate between epidemic, endemic and pandemic	C2	LGIS	MCQs
endemic and				

pandemic			
Dynamics of disease transmission	• Describe the dynamics of transmission of disease	C2	
Incubation period	• Explain the concept of incubation period and its importance.	C2	

## Medicine

Topic	At the end of the lecture, students should be able to	Learning Domain	Learning Strategy	Assessment Tools
	• Define and discuss pathophysiology	C1	0,	
Dysphagia	Discuss the causes	C2	LGIS	MCQs
	Describe clinical features	C2		
	Describe the management	C2		
	• Describe Mechanism of digestion in stomach	C1		
	• Describe Mechanism of APD and GERD	C2		
Peptic ulcer	Discuss Peptic ulcer formation	C2	LGIS	MCQs
	Enlist Clinical features	C2		
	• Enlist Investigations	C1		
	Describe management	C2		
	• Enlist types of Jaundice	C1		
	• Discuss changes in Liver	C2		
Jaundice	Describe clinical features	C2	LGIS	MCQs
	• Enlist investigations	C1		
	Discuss management	C2		
	• Describe features of IBD	C2		
Inflammatory	Classify IBD	C2		
bowel disease	Describe pathogenesis of IBD	C2	LGIS	MCQs
	Describe histological diagnosis of IBD	C1		
	Enlist complication of IBD	C1		

## List of GIT Module Basic and Clinical Sciences Vertical Integration Lectures

Sr. #	Date/Day	Week	Time	Department	Topic of Lectures	Teacher's Name & Contact #
1.	29-02-2024	1 <sup>st</sup> Week	09:20am-	Community Medicine	Concept of health & disease	Dr. Rizwana Shahid 0320-5511684
	Thursday		10:10am		(Even)	
					Epidemiology of infectious	Dr. Afifa kalsoom 0333-5506597
					diseases & Basic Concepts (Odd)	
2.	01-03-2024	1 <sup>st</sup> Week	10:00am-	Quran Translation	Imaniat I (Even)	Mufti Naeem Sherazi 03005580299
	Friday		11:00am		Ibadat I (Odd)	Dr Fahd 03005156800
3.	01-03-2024	1 <sup>st</sup> Week	11:00am-	Community Medicine	Epidemiology of infectious	Dr. Afifa kalsoom 0333-5506597
	Friday		12:00pm		diseases & Basic Concepts (Odd)	
					Concept of health & disease	Dr. Rizwana Shahid 0320-5511684
					(Even)	
4.	02-03-2024	1 <sup>st</sup> Week	9:20am –	Behavioral Sciences	Eating Disorders	Dr. Sadia Yasir (Even)
	Saturday		10:10am			Dr. Zona Tahir (Odd)
5.			11:20am-		Pakistan Medical & dental council	Dr. Sidra Hamid 0331-5025147
	04-03-2024	2 <sup>nd</sup> Week	12:10pm	Bioethics & Research	Code of Ethics (even)	
	Monday				Introduction to Descriptive	Dr. Rizwana Shahid 0320-5511684
					Statistics (Odd)	
6.	08-03-2024	2 <sup>nd</sup> Week	08:00am-	Medicine	Peptic ulcer (Even)	Dr Javeria Khan 03345444083
	Friday		09:00am		Peptic ulcer (Odd)	Dr Anum Abbas 03455057646
7.	08-03-2024	2 <sup>nd</sup> Week	10:00am-	Quran Translation-II	Ibadat-II (Even)	Dr Fahd 03005156800
	Friday		11:00am		Imaniyat -II (Odd)	Mufti Naeem Sherazi 03005580299
8.	08-03-2024	2 <sup>nd</sup> Week	11:00am	Quran Translation-II	Ibadat-II (Even)	Mufti Naeem Sherazi 03005580299
	Friday		12:00pm		Imaniyat -II (Odd)	Dr Fahd 03005156800
9.	09-03-2024	2 <sup>nd</sup> Week	9:20am –	Radiology &	Medical Imaging of abdomen-I	Dr. Quratul Ain (Even)
	Saturday		10:10am	Artificial Intelligence		Dr. Aneeqa Saleem (Odd)
10.	12-03-2024	3 <sup>rd</sup> Week	11:10am-	Research -I &	Introduction to descriptive	Dr. Rizwana Shahid 0320-5511684
	Tuesday		11:50am	Bioethics	statistics (Even)	
					Pakistan Medical & dental council	Dr. Sidra Hamid
					Code of Ethics (Odd)	
11.	13-03-2024	3 <sup>rd</sup> Week	09:20am-	Research-II LGIS	Classification of different types of	Dr. Rizwana Shahid 0320-5511684
	Wednesday		10:10am		data	Dr.

12.	14-03-2024	3 <sup>rd</sup> Week	09:20am-	Medicine	State of the Art Lecture Jaundice	Worthy Vice Chancellor
	Thursday		10:10am			Prof. Dr. Muhammad Umar
13.	14-03-2024	3 <sup>rd</sup> Week	11:10am-	Family Medicine	Common Abdominal diseases	Dr. Sadia
	Thursday		11:50am			Dr. Ishtiaq
	15-03-2024	3 <sup>rd</sup> Week	10:00am	Quran Translation-III	Ibadaat-3	Dr Fahd 03005156800 (Even)
14.	Friday		11:00am		Imaniat-3	Mufti Naeem Sherazi 03005580299
		-				(Odd)
	15-03-2024	3 <sup>rd</sup> Week	11:00am	Quran Translation-III	Imaniat-3	Mufti Naeem Sherazi 03005580299
15.	Friday		12:00pm			(Even)
					Ibadaat-3	Dr Fahd 03005156800 (Odd)
	16-03-2024	3 <sup>rd</sup> Week	11:10am-	Pak Studies/Islamiyat	Tehreek-E-Pakistan Islaahi	Qari Aman Ullah 03467598528
16.	Saturday		11:50am		Tehreekain	
					Akhirat-I	Mufti Naeem Sherazi 03005580299
	19-03-2024	4 <sup>th</sup> Week	10:30am-	Research-III	Scales of Data Measurement	Dr. Rizwana Shahid 0320-5511684
17.	Tuesday		11:10am			Dr. Afifa kalsoom 0333-5506597
						Dr. Ishtiaq
10	21-03-2024	4 <sup>th</sup> Week	11:10am-	Research-IV	Research IV: Measures of central	Dr. Rizwana Shahid 0320-5511684
18.	Thursday		12:00pm		Tendency	Dr. Afifa kalsoom 0333-5506597
	22-03-2024	4 <sup>th</sup> Week	08:00am-	Pak	Toheed	Mufti Naeem Sherazi 03005580299
19.	Friday		09:00am	Studies/Islamiyat-I	Qayam e Pakistan, Aghraaz o	Qari Aman Ullah 03467598528
					Maqasid	
	22-03-2024	4 <sup>th</sup> Week	09:00am-	Pak	Qayam e Pakistan, Aghraaz o	Qari Aman Ullah 03467598528
20.	Friday		10:00am	Studies/Islamiyat-I	Maqasid	
					Toheed	Mufti Naeem Sherazi 03005580299
	22-03-2024	4 <sup>th</sup> Week	10:00am-	Entrepreneurship	Ideate Initial Idea	Dr. Asif Maqsood & Dr. Sidra
21	Friday		11:00am			Hamid
	23-03-2024	4 <sup>th</sup> Week	11:50am –	Pak Studies/Islamivat	Tehreek-e-Aligarh, Sir Syed	Qari Aman Ullah (Even)
22.	Saturday		01:00pm	<b>J</b>	Ahmad Khan	
			L L		Akhirat -II	Mufti Naeem Sherazi (Odd)
22	27-03-2024	5 <sup>th</sup> Week	10:30am-	Research-V	Compute and Interpret measures of	Dr. Rizwana Shahid 0320-5511684
23.	Wednesday		11:10am		central tendency	Dr. Afifa kalsoom 0333-5506597
24	28-03-2024	5 <sup>th</sup> Week	10:30am-	Research-VI	Measures of dispersion/Secondary	Dr. Rizwana Shahid 0320-5511684
24.	Thursday		11:10am		Data Analysis	Dr. Afifa kalsoom 0333-5506597

	29-03-2024	5 <sup>th</sup> Week	11:10am-	Radiology &	Medical Imaging of abdomen-II	Dr. Sana Yaqoob (Even) \
25.	Friday		11:50am	Artificial Intelligence		0342-2064666
						Dr. Saba Bint e Kashmir (Odd)

### **SECTION - V**

## **Spiral Courses**

### Content

- Longitudinal Themes
  - The Holy Quran Translation
  - **o** Biomedical Ethics & Professionlism
  - Behavioural Sciences
  - Family Medicine
  - Artificial Intelligence (Innovation)
  - Integrated Undergraduate Research Curriculum (IUGRC)
  - Enterpeneurship
  - Digital Literacy Module
  - Early Clinical Exposure (ECE)

### **Introduction to Spiral Courses**

### The Holy Quran Translation

A course of Islamic Studies provides students with a comprehensive overview of the fundamental aspects of Islam, its history, beliefs, practices, and influence on society and familiarize students with a solid foundation in understanding the religion of Islam from an academic and cultural perspective. Ethics, in integrated form will shape the core of the course to foster among students the universal ethical values promoted by Islam

#### Bioethics

Biomedical ethics, also known as bioethics, is a field of study that addresses the ethical, social, and legal issues arising from medicine and the life sciences. It applies moral principles and decision-making frameworks to the practice of clinical medicine, biomedical research, and health policy. Biomedical ethics seeks to navigate the complex ethical dilemmas posed by advances in medical technology, research methodologies, and healthcare practices. Key areas of focus include patient rights and autonomy, confidentiality, informed consent, end-of-life care, resource allocation, and the ethics of genetic engineering, among others.

Biomedical ethics within medical universities plays a pivotal role in shaping the moral framework through which future healthcare professionals navigate the complex and often challenging decisions they will face in their careers. This critical discipline integrates ethical theories and principles with clinical practice, research, and healthcare policy, fostering a deep understanding of the ethical dimensions of medicine. By embedding biomedical ethics into the curriculum, Rawalpindi medical university equips students with the tools to critically analyze and address ethical dilemmas, ranging from patient confidentiality and informed consent to end-of-life care and the equitable distribution of healthcare resources.

This education goes beyond theoretical knowledge, encouraging students to apply ethical reasoning in practical scenarios, thus preparing them for the moral complexities of the medical field. Biomedical ethics also promotes a culture of empathy, respect, and integrity, ensuring that future medical practitioners not only excel in their technical skills but also uphold the highest ethical standards in patient care and research. Through seminars, case studies, and interdisciplinary collaborations, students are encouraged to engage in ethical discourse, reflecting on the societal impact of medical advancements and the responsibility of medical professionals to society. This foundational aspect of medical education cultivates a generation of healthcare professionals committed to ethical excellence, patient advocacy, and the pursuit of equitable healthcare for all.

#### Professionalism

Professionalism in medicine refers to the set of values, behaviors, and relationships that underpin the trust the public has in doctors and other healthcare professionals. It encompasses a commitment to competence, integrity, ethical conduct, accountability, and putting the interests of patients above one's own. Professionalism involves adhering to high standards of practice, including maintaining patient confidentiality, communicating effectively and respectfully with patients and colleagues, and continually engaging in self-improvement and professional development. It also includes a responsibility to improve access to high-quality healthcare and to contribute to the welfare of the community and the betterment of public health. In essence, professionalism in medicine is foundational to the quality of care provided to patients and is critical for maintaining the trust that is essential for the doctor-patient relationship.

Rawalpindi Medical University emphasizes the importance of professionalism in medicine, integrating it throughout its curriculum to ensure that students embody the core values of respect, accountability, and compassion in their interactions with patients, colleagues, and the community. This focus on professionalism is designed to prepare students for the complexities of the healthcare environment, instilling in them a deep sense of responsibility to their patients, adherence to ethical principles, and a commitment to continuous learning and improvement. Through a combination of theoretical learning, practical training, and mentorship, RMU encourages its students to exemplify professionalism in every aspect of their medical practice. Workshops, seminars, and clinical rotations further reinforce these values, providing students with real-world experiences that highlight the importance of maintaining professional conduct in challenging situations. RMU's approach to professionalism not only shapes competent and ethical medical professionals but also contributes to the broader mission of improving healthcare standards and patient outcomes. By prioritizing professionalism, Rawalpindi Medical University plays a crucial role in advancing the medical profession and ensuring that its graduates are well-equipped to meet the demands of a rapidly evolving healthcare landscape with honor and integrity.

#### **Communication Skills**

Communication skill for health professionals involves the ability to effectively convey and receive information, thoughts, and feelings with patients, their families, and other healthcare professionals. It encompasses a range of competencies including active listening, clear and compassionate verbal and non-verbal expression, empathy, the ability to explain medical conditions and treatments in an understandable way, and the skill to negotiate and resolve conflicts. Effective communication is essential for establishing trust, ensuring patient understanding and compliance with treatment plans, making informed decisions, and providing holistic care. It directly impacts patient satisfaction, health outcomes, and the overall efficiency of healthcare delivery

At Rawalpindi Medical University (RMU), the development of communication skills is regarded as a fundamental aspect of medical education, recognizing its critical importance in enhancing patient care, teamwork, and interdisciplinary collaboration. RMU is dedicated to equipping its students with exceptional communication abilities, enabling them to effectively interact with patients, their families, and healthcare colleagues. The curriculum is thoughtfully designed to incorporate various interactive and experiential learning opportunities, such as role-playing, patient interviews, and group discussions, which allow students to practice and refine their communication skills in a supportive environment.

By integrating communication skills training throughout its programs, RMU not only enhances the interpersonal competencies of its future healthcare professionals but also contributes to improving the overall quality of healthcare delivery. Graduates from RMU are distinguished not just by their clinical expertise but also by their ability to connect with patients and colleagues, making them highly effective and compassionate practitioners.

#### **Behavioral Sceinces**

Behavioral sciences in medicine focus on understanding and addressing the psychological and social aspects of health and illness. This interdisciplinary field combines insights from psychology, sociology, anthropology, and other disciplines to enhance medical care and patient outcomes. It explores how behavior, emotions, and social factors influence health, disease, and medical treatment. By incorporating behavioral science principles into medical practice, healthcare professionals can better understand patients' perspectives, improve communication, and promote positive health behaviors, ultimately contributing to more comprehensive and effective patient care.

### Family Medicine

Family medicine is a medical specialty dedicated to providing comprehensive health care for people of all ages and genders. It is characterized by a long-term, patientcentered approach, building sustained relationships with patients and offering continuous care across all stages of life. It focuses on treating the whole person within the context of the family and the community, emphasizing preventive care, disease management, and health promotion.

The Family Medicine Curriculum at Rawalpindi Medical University (RMU) marks a significant stride towards holistic healthcare education, aiming to prepare medical graduates for the comprehensive and evolving needs of family practice. This curriculum is designed to offer a broad perspective on healthcare, focusing on preventive care, chronic disease management, community health, and the treatment of acute conditions across all ages, genders, and diseases. Emphasizing a patient-centered approach, the curriculum ensures that students develop a deep understanding of the importance of continuity of care, patient advocacy, and the ability to work within diverse community settings.

RMU's Family Medicine Curriculum integrates theoretical knowledge with practical experience. Students are exposed to a variety of learning environments, including community health centers, outpatient clinics, and inpatient settings, providing them with a well-rounded understanding of the different facets of family medicine. This hands-on approach is complemented by interactive sessions, workshops, and seminars that cover a wide range of topics from behavioral health to geriatric care, ensuring students are well-equipped to address the comprehensive health needs of individuals and families.

### Artificial Intelligence

To realize the dreams and impact of AI requires autonomous systems that learn to make good decisions. Reinforcement learning is one powerful paradigm for doing so, and it is relevant to an enormous range of tasks, including robotics, game playing, consumer modeling and healthcare. This class will provide a solid introduction to the field of reinforcement learning and students will learn about the core challenges and approaches, including generalization and exploration. Through a combination of lectures, and written and coding assignments, students will become well versed in key ideas and techniques for RL. Assignments will include the basics of reinforcement learning — an extremely promising new area that combines deep learning techniques with reinforcement learning. In addition, students will advance their understanding and the field of RL through a final project.

### Integrated Undergraduate Research Curriculum

The integrated undergraduate research curriculum (IUGRC) of RMU occupies a definite space in schedule of each of the five years in rational and incremental way. It has horizontal harmonization as well as multidisciplinary research work potentials. In the first-year teachings are more introductory & inspirational rather than instructional. The teachings explain what & why of research and what capacities are minimally required to comprehend research & undertake research. Some research dignitaries' lecture are specifically arranged for sharing their experiences and inspiring the students. Students are specifically assessed through their individual compulsory written feedback (reflection) after the scheduled teachings end.

#### Entrepreneurship

Entrepreneurship is the process of designing, launching, and running a new business, which typically starts as a small enterprise offering a product, process, or service for sale or hire. It involves identifying a market opportunity, gathering resources, developing a business plan, and managing the business's operations, growth, and development.

Entrepreneurship in medical universities represents a burgeoning field where the innovative spirit intersects with healthcare to forge advancements that can transform patient care, medical education, and healthcare delivery. This unique amalgamation of medical expertise and entrepreneurial acumen empowers students, faculty, and alumni to develop groundbreaking medical technologies, healthcare solutions, and startups that address critical challenges in the health sector. By integrating entrepreneurship into the curriculum, Rawalpindi Medical university is not only expanding the traditional scope of medical education but also fostering a culture of innovation and problem-solving. This enables future healthcare professionals to not only excel in clinical skills but also in business strategies, leadership, and innovation management.

Such initiatives often lead to the creation of medical devices, digital health platforms, and therapeutic solutions that can significantly improve patient outcomes and make healthcare more accessible and efficient. Through incubators, accelerators, and partnerships with the industry, medical universities are becoming hotbeds for healthcare innovation, driving economic growth, and contributing to the broader ecosystem of medical research and entrepreneurial success.

#### Digital Literacy Module

Digital literacy means having the skills one needs to live, learn, and work in a society where communication and access to information is increasingly through digital technologies like internet platforms, social media, and mobile devices.

#### Early Clinical Exposure (ECE)

Early clinical exposure helps students understand the relevance of their preclinical studies by providing real-world contexts. This can enhance motivation and engagement by showing students the practical application of their theoretical knowledge. Early exposure allows students to begin developing essential clinical skills from the start of their education. This includes not only technical skills but also crucial soft skills such as communication, empathy, and professionalism. Direct interaction with patients early in their education helps students appreciate the complexities of patient care, including the psychological and social aspects of illness. Early exposure to various specialties can aid students in making informed decisions about their future career paths within medicine.

Early clinical experiences contribute to the development of a professional identity, helping students see themselves as future physicians and understand the responsibilities and ethics associated with the profession. This can help reduce the anxiety associated with clinical work by familiarizing students with the clinical environment. It can build confidence in their abilities to interact with patients and healthcare professionals. Engaging with real-life clinical situations early on encourages the development of critical thinking and problem-solving skills, which are essential for medical practice. It helps bridge the gap between theoretical knowledge and practical application, leading to a more integrated and holistic approach to medical education. It allows students to observe and understand how healthcare systems operate, including the challenges and limitations faced in different settings.: Early patient interaction emphasizes the importance of patient-centered care from the outset, underscoring the importance of treating patients as individuals with unique needs and backgrounds. Practical experiences can enhance long-term retention of knowledge as students are able to connect theoretical learning with clinical experiences.: Early clinical experiences often involve working in multidisciplinary teams, which fosters a sense of collaboration and understanding of different roles within healthcare.

In summary, early clinical exposure in medical education is pivotal for the holistic development of medical students, providing them with a strong foundation of practical skills, professional attitudes, and a deep understanding of patient-centered care.
Topic	Learning Objectives At the end of the lecture the student should be able to	Learning Domain	Teaching Strategy	Assessment Tool
Imaniyat (Faith)	<ul> <li>Introduction of concept of Imaniyat</li> <li>Corelate the concept of faith in different situation of life</li> </ul>	C2	LGIS	SAQ
Tauheed (Oneness of God)	<ul> <li>Introduction of Quranic Concept of Tauheed</li> <li>Corelate the concept of tauheed in different situation of life</li> </ul>	C2	LGIS	SAQ
Ibadaat (Worship)	<ul> <li>Introduction of concept of Ibadaat</li> <li>Study of Verses Related to Hajj</li> <li>Impact of Hajj on a Muslim's Life</li> </ul>	C2	LGIS	SAQ
Amr bil Ma'ruf and Nahi anil Munkar (Enjoining Good and Forbidding Evil)	<ul> <li>Introduction of concept of Amr bil Ma'ruf and Nahi anil Munkar</li> <li>Study of Verses Related to Amr bil Ma'ruf and Nahi anil Munkar</li> <li>Importance of Amr bil Ma'ruf and Nahi anil Munkar in the life of medical doctors</li> </ul>	C2	LGIS	SAQ

## The Holy Quran Translation lecture

## Pak Studies/Islamiyat

Topic	Learning Objectives At the end of the lecture the student should be able to	Learning Domain	Teaching Strategy	Assessment Tool
Tehreek-E- Pakistan Islaahi Tehreekain	• Understand the history of Tehreek-E-Pakistan Islaahi Tehreekain.	C2	LGIS	SAQ
Akhirat-I	<ul> <li>Introduction of Quranic Concept of Akhriat</li> <li>Corelate the concept of Akhriat in different situation of life</li> </ul>	C2	LGIS	SAQ
Qayam e Pakistan, Aghraaz o Maqasid	• Understand the history of Qayam e Pakistan, Aghraaz o Maqasid Tehreek-E-Pakistan Islaahi Tehreekain.		LGIS	SAQ
Toheed	<ul> <li>Introduction of Quranic Concept of Tauheed</li> <li>Corelate the concept of tauheed in different situation of life</li> </ul>	C2	LGIS	SAQ

Topic	At the End of The Session, Student Should Be Able To	Learning Domain	Teaching Strategy	Assessment Tool
	At the end of the session students should be able to;	<b>G2</b>		
Pakistan Medical	• Appreciate the value of oath and pledge taken by medical student at the time of graduation from medical school	C2	LCIC	SAQ
& Dental Council Code of Ethics	• Appraise the importance of principles to be followed by the medical and dental practitioners to fulfil the social contract with the society in order to win the trust of the public in the profession	C2	LGIS	VIVA
	<ul> <li>Cognizant with disciplinary proceedings in case of violation of rules laid down by regulatory body</li> </ul>	C1		

#### **Biomedical Ethics & Professionalism**

#### **Behavioral Sciences**

Topic	At The End of Lecture Students Should Be Able To	Learning Domain	Teaching Strategy	Assessment Tool
Eating Disorders	• To be able to define eating disorders	C1		
	• To be able to describe the types of eating disorders	C2	LGIS	MCQs
	• To make differential diagnosis	C2		
	• To be able to manage such conditions	C2		

## Family Medicine

Topic	Learning Objectives At the end of the lecture the student should be able to	Learning Domain	Teaching Strategy	Assessment Tool
Approach to a	Discuss what is abdominal pain	$C^{2}$	LGIS-1	MCQs
abdominal pain	<ul><li>Discuss its causes</li><li>Disscus diagnosis &amp; principle of management</li></ul>	C2		

Topic	At the end of lecture student should be able to	Teaching Strategy	Assessment Tools	
	• Identify normal and abnormal radiographs of abdomen (AP view)	C1		
X-ray abdomen	• Identify filling defects (Barium meal and Barium enema)	C1	LGIS	MCQs
	• Recognize the correct and incorrect positioning of feeding tubes	C1		
CT Scan MRI abdomen	• Identify normal and abnormal CT Scan MRI abdomen	C1	LGIS	MCQs
	• Discuss co-relation with Artificial Intelligence	C2		

## Integrated Undergraduate Research Curriculum (IUGRC)

Topic	At the End of The Session, Student Should Be Able To	Teaching Strategy	Assessment Tool
Lecture 1: Introduction to Descriptive Statistics	<ul> <li>At the end of the session students should be able to;</li> <li>Define &amp; enlist uses of statistical knowledge in research &amp; healthcare profession.</li> <li>Differentiate descriptive statistics form inferential statistics</li> <li>Appreciate value of information &amp;</li> </ul>	LGIS	SAQ MCQ VIVA
	precision in scientific decision making		
	• Describe the concept of data, variable & sources of data with respect to descriptive		
Lecture 2:	statistics		SAQ

Classification of different types of Data	<ul> <li>Enlist data types with examples from medical background</li> <li>Classify types of data with examples (qualitative &amp; quantitative)</li> <li>Exercise on the identification of different types of data</li> </ul>	LGIS	MCQ VIVA
Lecture 3: Scales of Data Measurement	<ul> <li>Enlist types of data measurement scales</li> <li>Elaboration of different types of data measurement scales with example</li> <li>Enlist different method of data presentation (tables, graphs, diagrams, pie chart, Bar graph, histogram. line diagram scatter diagram, statistical maps, pictogram and ogive curve) according to type of data.</li> </ul>	LGIS	SAQ MCQ VIVA
Lecture 4: Measure of central tendency	<ul> <li>Explain concept of Measures of central tendency with illustrations form medical background</li> <li>Calculate and interpret the different measures of central tendency</li> </ul>	LGIS	SAQ MCQ VIVA
Lecture 5: Measures of Dispersion	<ul> <li>Explain concept of Measures of dispersion with illustrations form medical background</li> <li>Calculate and interpret the different measures of dispersion</li> </ul>	LGIS	SAQ MCQ VIVA
Lecture 6: Practice Session	• Compute and Interpret results of different measures of dispersion form a given data file	LGIS	SAQ MCQ VIVA

## Enterpreneurship

Topics	Brief Note	Learning Outcomes
Ideate Initial Idea	• How it would create value	Understand the concept of ideation in the entrepreneurial context. Learn techniques for generating creative and innovative business ideas. Develop skills to evaluate and refine initial ideas for feasibility and viability.

## **Digital Literacy Module**

Торіс	Learning Objectives	Teaching	Assessment
	At the end of the lecture the student should be able to	Strategy	Tool
RMU Goes digital	<ul> <li>Introduction to LMS, CMS and MS Teams.</li> <li>Inrtorduction to RMU website</li> <li>How to use HEC digital library</li> <li>How to use up to date website</li> </ul>	LGIS	MCQs

Sr. #	Date/Day	Week	Time	Department	Topic of Lectures	Teacher's Name & Contact #
1.	01-03-2024	1 <sup>st</sup> Week	10:00am-	Quran Translation	Imaniat I (Even)	Mufti Naeem Sherazi 03005580299
	Friday		11:00am		Ibadat I (Odd)	Dr Fahd 03005156800
2.	02-03-2024	1 <sup>st</sup> Week	9:20am –	Behavioral Sciences	Eating Disorders	Dr. Sadia Yasir (Even)
	Saturday		10:10am			Dr. Zona Tahir (Odd)
3.			11:20am-		Pakistan Medical & dental council	Dr. Sidra Hamid 0331-5025147
	04-03-2024	2 <sup>nd</sup> Week	12:10pm	Bioethics & Research	Code of Ethics (even)	
	Monday				Introduction to Descriptive	Dr. Rizwana Shahid 0320-5511684
					Statistics (Odd)	
4.	08-03-2024	2 <sup>nd</sup> Week	10:00am-	Quran Translation-II	Ibadat-II (Even)	Dr Fahd 03005156800
	Friday		11:00am		Imaniyat -II (Odd)	Mufti Naeem Sherazi 03005580299
5.	08-03-2024	2 <sup>nd</sup> Week	11:00am	Quran Translation-II	Ibadat-II (Even)	Mufti Naeem Sherazi 03005580299
	Friday		12:00pm		Imaniyat -II (Odd)	Dr Fahd 03005156800
6.	09-03-2024	2 <sup>nd</sup> Week	9:20am –	Radiology &	Medical Imaging of abdomen-I	Dr. Quratul Ain (Even)
	Saturday		10:10am	Artificial Intelligence		Dr. Aneeqa Saleem (Odd)
7.	12-03-2024	3 <sup>rd</sup> Week	11:10am-	Research -I &	Introduction to descriptive	Dr. Rizwana Shahid 0320-5511684
	Tuesday		11:50am	Bioethics	statistics (Even)	
					Pakistan Medical & dental council	Dr. Sidra Hamid
					Code of Ethics (Odd)	
8.	13-03-2024	3 <sup>rd</sup> Week	09:20am-	Research-II LGIS	Classification of different types of	Dr. Rizwana Shahid 0320-5511684
	Wednesday		10:10am		data	Dr.
9.	14-03-2024	3 <sup>rd</sup> Week	11:10am-	Family Medicine	Common Abdominal diseases	Dr. Sadia
	Thursday		11:50am			Dr. Ishtiaq
	15-03-2024	3 <sup>rd</sup> Week	10:00am	Quran Translation-III	Ibadaat-3	Dr Fahd 03005156800 (Even)
10.	Friday		11:00am		Imaniat-3	Mufti Naeem Sherazi 03005580299
		1				(Odd)
11	15-03-2024	3 <sup>rd</sup> Week	11:00am	Quran Translation-III	Imaniat-3	Mufti Naeem Sherazi 03005580299
11.	Friday		12:00pm			(Even)

# List of Foundation Module Spiral Courses Lectures

					Ibadaat-3	Dr Fahd 03005156800 (Odd)
	16-03-2024	3 <sup>rd</sup> Week	11:10am-	Pak Studies/Islamiyat	Tehreek-E-Pakistan Islaahi	Qari Aman Ullah 03467598528
12.	Saturday		11:50am		Tehreekain	
			Akhirat-I	Mufti Naeem Sherazi 03005580299		
	19-03-2024	4 <sup>th</sup> Week	10:30am-	Research-III	Scales of Data Measurement	Dr. Rizwana Shahid 0320-5511684
13.	Tuesday		11:10am			Dr. Afifa kalsoom 0333-5506597
						Dr. Ishtiaq
1.4	21-03-2024	4 <sup>th</sup> Week	11:10am-	Research-IV	Research IV: Measures of central	Dr. Rizwana Shahid 0320-5511684
14.	Thursday		12:00pm		Tendency	Dr. Afifa kalsoom 0333-5506597
	22-03-2024	4 <sup>th</sup> Week	08:00am-	Pak	Toheed	Mufti Naeem Sherazi 03005580299
15.	Friday		09:00am	Studies/Islamiyat-I	Qayam e Pakistan, Aghraaz o	Qari Aman Ullah 03467598528
					Maqasid	
	22-03-2024	4 <sup>th</sup> Week	09:00am-	Pak	Qayam e Pakistan, Aghraaz o	Qari Aman Ullah 03467598528
16.	Friday		10:00am	Studies/Islamiyat-I	Maqasid	
					Toheed	Mufti Naeem Sherazi 03005580299
	22-03-2024	4 <sup>th</sup> Week	10:00am-	Entrepreneurship	Ideate Initial Idea	Dr. Asif Maqsood & Dr. Sidra
17.	Friday		11:00am			Hamid
	23-03-2024	4 <sup>th</sup> Week	11:50am –	Pak Studies/Islamivat	Tehreek-e-Aligarh, Sir Syed	Oari Aman Ullah (Even)
18.	Saturday	rday 01:00pm		Ahmad Khan		
	•		1		Akhirat -II	Mufti Naeem Sherazi (Odd)
10	27-03-2024	5 <sup>th</sup> Week	10:30am-	Research-V	Compute and Interpret measures of	Dr. Rizwana Shahid 0320-5511684
19.	Wednesday		11:10am		central tendency	Dr. Afifa kalsoom 0333-5506597
20	28-03-2024	5 <sup>th</sup> Week	10:30am-	Research-VI	Measures of dispersion/Secondary	Dr. Rizwana Shahid 0320-5511684
20.	Thursday		11:10am		Data Analysis	Dr. Afifa kalsoom 0333-5506597
	29-03-2024	5 <sup>th</sup> Week	11:10am-	Radiology &	Medical Imaging of abdomen-II	Dr. Sana Yaqoob (Even) \
21.	Friday		11:50am	Artificial Intelligence		0342-2064666
		1				Dr. Saba Bint e Kashmir (Odd)

#### **SECTION - VI**

#### **Assessment Policies**

#### Contents

- Assessment plan
- Types of Assessment:
- Modular Examinations
- Block Examination
- Table 4: Assessment Frequency & Time in GIT Module



#### Assessment plan

University has followed the guidelines of Pakistan Medical and Dental Council for assessment. Assessment is conducted at the mid modular, modular and block levels.

#### **Types of Assessment:**

The assessment is formative and summative.

Formative Assessment	Summative Assessment
Formative assessment is taken at modular (2/3 <sup>rd</sup> of the module is complete)	Summative assessment is taken at the mid modular (LMS Based), modular
level through MS Teams. Tool for this assessment is best choice questions	and block levels.
and all subjects are given theshare according to their hour percentage.	

#### Modular Assessment

Theory Paper	Viva Voce
There is a module examination at the end of first module of each block. The content of the whole teaching of the module are tested in this examination.	Structured table viva voce is conducted including the practical content of the module.
It consists of paper with objective type questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module. (Annexure I attached)	

#### **Block Assessment**

On completion of a block which consists of two modules, there is a block examination which consists of one theory paper and a structured viva with OSPE.

Theory Paper	Block OSPE
There is one written paper for each subject. The paper consists of objective type questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module.	This covers the practical content of the whole block.

Block		Module – 1	Type of		Total Assessments Time		No. of Assessments	
	Sr	GIT Module Components	Assessments	Assessment	Summative	Formative		
	#			Time	Assessment Time	Assessment Time		
	1	Mid Module Examinations LMS based (Anatomy, Physiology & Biochemistry)	Summative	30 Minutes				
	2	Topics of SDL Examination on MS Team	Formative	30 Minutes				
	3	End Module Examinations (SEQ & MCQs Based)	Summative	2 Hours	3 Hour 15 Minutes	45 Minutes	2 Formative	6 Summative
ock-I	4	Anatomy Structured and Clinically Oriented Viva	Summative	10 Minutes				
Blc	5	Physiology Structured & Clinically oriented Viva voce	Summative	10 Minutes				
	6.	Biochemistry Structured & Clinically oriented Viva voce	Summative	10 Minutes				
	7.	Assessment of Clinical Lectures	Formative	15 Minutes				
	8.	Assessment of Bioethics Lectures	Summative	2 Minutes				
	9.	Assessment of IUGRC, Family Medicine Lectures	Summative	10 Minutes				

# Table 4-Assessment Frequency & Time in GIT Module

# No. of Assessments of Anatomy for Second Year MBBS GIT Module

Block		Module – 1	Type of	Total Assessments Time		No. of Assessments		
	Sr #	GIT Module Components	Assessments	Assessment Time	Summative Assessment Time	Formative Assessment Time		
	1	Mid Module (when 2/3 <sup>rd</sup> content is covered) Examinations LMS based combined with Anatomy & Biochemistry	Summative	25-02-2023 09:00PM - 09:30PM 30 Minutes				
	2	Topics of SDL Examination on MS Team (After 15 days of teaching)	Formative	29-03-2023 12:00pm- 12:30pm 10 Minutes	2 Hours &	30 Minutes	3 Formative	3 Summative
ock-I	3	End Module Examinations (SEQ & MCQs Based)	Summative	08-03-2023 08:30am - 10:30am 2 Hours	40 minutes			
Bla	4	Sub Regional Assessment (Viva voce)	Formative	10 Minutes				
	5	Structured & Clinically oriented Viva voce	Summative	06-03-2023 & 07-03-2023 09:00am - 01:00pm 10 Minutes/student				
	6	Assessment of Clinical Lectures	Formative	10-03-23 09:30am- 10:00am 10 Minutes				

# No. of Assessments of Physiology for Second Year MBBS GIT Module

Block	Sr.	Module – 1	Type of		Total Assessments Time		No. of Assessments	
	#	GIT Module Components	Assessments	Assessment	Summative	Formative		
				Date/Time/Duration	Assessment	Assessment		
					Time	Time		
	1	Mid Module (when $2/3^{rd}$ content is covered)	Summative	25-02-2023				
		Examinations LMS based combined with		09:00PM -09:30PM				
		Anatomy & Biochemistry		30 Minutes				
	2	Topics of SDL Examination on MS Team	Formative	18-03-2023				
		(After 15 days of teaching)		12:00pm - 12:30pm				
				10 Minutes	2 Hours			
H	3	End Module Examinations (SEQ & MCQs	Summative	09-03-2023	&	20 minutes	2 Formative	3 Summative
1 1		Based)		08:30am -10:30am	40 minutes			
loc				2 Hours				
В	4	Structured & Clinically oriented Viva voce	Summative	06-03-2023 & 07-				
				03-2023				
				09:00am -01:00pm				
				10 Minutes/student				
	5	Assessment of Clinical Lectures	Formative	10-03-23				
				09:30am-10:00am				
				10 Minutes				

## No. of Assessments of Biochemistry for Second Year MBBS GIT Module

Block	Sr. #	Module – 1	Type of	Total	Assessments Time		No. of Assessments	
		GIT Module Components	Assessments	Assessment	Summative	Formative		
				Time	Assessment	Assessment		
					Time	Time		
	1	Mid Module (when 2/3 <sup>rd</sup> content is covered)	Summative	25-02-2023				
		Examinations LMS based combined with		09:00PM -				
		Anatomy & Biochemistry		09:30PM				
				30 Minutes				
	2	Topics of SDL Examination on MS Team	Formative	18-03-2023	2 Hours			
		(After 15 days of teaching)		12:00pm -	&	20 Minutes	2 Formative	3 Summative
				12:30pm	40 minutes			
н,				10 Minutes				
ck-	3	End Module Examinations (SEQ & MCQs Based)	Summative	10-03-2023				
310				08:30am-				
щ				10:30am				
				2 Hours				
	4	Structured & Clinically oriented Viva voce	Summative	10 Minutes				
	5	Assessment of Clinical Lectures	Formative	10-03-2023				
				08:30am-				
				10:30am				
				10 Minutes				
	Total			3 Hours			5 Asse	essments

Learning Kesources					
Subject	Resources				
	A. Gross Anatomy				
	1. Gray's Anatomy by Prof. Susan Standring 42th edition, Elsevier.				
	2. Clinical Anatomy for Medical Students by Richard S.Snell 10 <sup>th</sup> edition.				
	3. Clinically Oriented Anatomy by Keith Moore 9 <sup>th</sup> edition.				
Anatomy	4. Cunningham's Manual of Practical Anatomy by G.J. Romanes, 16th edition, Vol-I, II and III				
-	5. http://www.anatomyzone.com 3D anatomy				
	https://www.kenhub.com/en/library/anatomy/the-digestive-system				
	https://teachmeanatomy.info/				
	B. Histology				
	1. B. Young J. W. Health Wheather's Functional Histology 6 <sup>th</sup> edition.				
	2. Medical Histology by Prof. Laig Hussain $7^{\text{th}}$ edition.				
	https://www.udemy.com/course/ <b>histology</b> /				
	https://www.youtube.com/@DrRubenGarciaGarza/community				
	C. Embryology				
	1. Keith L. Moore. The Developing Human 11 <sup>th</sup> edition.				
	2. Langman's Medical Embryology 14 <sup>th</sup> edition.				
	A. Textbooks				
	1. Textbook Of Medical Physiology by Guyton And Hall 14 <sup>th</sup> edition.				
	2. Ganong 'S Review of Medical Physiology 26 <sup>th</sup> edition.				
Physiology	B. Reference Books				
	1. Human Physiology by Lauralee Sherwood 10 <sup>th</sup> edition.				
	2. Berne & Levy Physiology 7 <sup>th</sup> edition.				
	3. Best & Taylor Physiological Basis of Medical Practice 13 <sup>th</sup> edition.				
	4. Guyton & Hall Physiological Review 3 <sup>rd</sup> edition.				
	Textbooks				
	1. Lippincott IIIustrated Reviews: Biochemistry – Wolters Kluwer				
Biochemistry	2. Harper's Illustrated Biochemistry 32th edition.				
	3. Lehninger Principle of Biochemistry 8 <sup>th</sup> edition.				
	4. Biochemistry by Devlin 7 <sup>th</sup> edition.				
	Textbooks				
	1. Community Medicine by Parikh 25 <sup>th</sup> edition.				
Community Medicine	2. Community Medicine by M Illyas 8 <sup>th</sup> edition.				
	3. Basic Statistics for the Health Sciences by Jan W Kuzma 5 <sup>th</sup> edition.				

## I coming D

	Textbooks
	1. Robbins & Cotran, Pathologic Basis of Disease, 10 <sup>th</sup> edition.
Pathology/Microbiology	2. Rapid Review Pathology, 5 <sup>th</sup> edition by Edward F. Goljan MD.
	3. <u>http://library.med.utah.edu/WebPath/webpath.html</u>
	Textbooks
Pharmacology	1. Lippincot Illustrated Pharmacology 9 <sup>th</sup> edition.
	2. Basic and Clinical Pharmacology by Katzung 5 <sup>th</sup> edition.



**Time Table** 

# **Integrated Clinically Oriented Modular Curriculum for Second Year MBBS**

GIT Module Time Table Second Vear MBBS
Session 2023 - 2024
Batch- 50

## **GIT Module Team**

Module Name	:	GIT Module
Duration of module	:	06 Weeks
Coordinator	:	Dr. Uzma Kiyani
Co-coordinator	:	Dr. Minahil Haq
Reviewed by	:	Module Committee

Module Committee		Module Task Force Team		
Vice Chancellor RMU	Prof. Dr. Muhammad Umar	Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)	
Director DME	Prof. Dr. Rai Muhammad Asghar	DME Focal Person	Dr. Sidra Hamid (DHPE)	
Convener Curriculum	Prof. Dr. Naeem Akhter	Co-coordinator	Dr. Shazia Nosheen (Senior Demonstrator of Physiology)	
Chairperson Anatomy &	Prof. Dr. Ayesha Yousaf	Co-Coordinator	Dr. Minahil Haq (Senior Demostrator of Anatomy)	
Dean Basic Sciences				
Additional Director DME	Prof. Dr. Ifra Saeed	Co-coordinator	Dr. Uzma Zafar (APWMO of Biochemistry)	
Chairperson Physiology	Prof. Dr. Samia Sarwar			
Chairperson Biochemistry	Dr. Aneela Jamil	DME	E Implementation Team	
		Director DME	Prof. Dr. Rai Muhammad Asghar	
Focal Person Anatomy	Dr. Maria Tasleem	Implementation Incharge 1st & 2 <sup>nd</sup> Year	Prof. Dr. Ifra Saeed	
Second Year MBBS		MBBS & Add. Director DME		
Focal Person Physiology	Dr. Sidra Hamid	Module planner & Implementation	Dr. Sidra Hamid	
		Coordinator		
Focal Person Biochemistry	Dr. Aneela Jamil	Editor	Muhammad Arslan Aslam	
Focal Person Pharmacology	Dr. Zunera Hakim			
Focal Person Pathology	Dr. Asiya Niazi			
Focal Person Behavioral	Dr. Saadia Yasir			
Sciences				
Focal Person Community	Dr. Afifa kalsoom			
Medicine				
Focal Person Quran	Dr. Uzma Zafar			
Translation Lectures				
Focal Person Family Medicine	Dr. Sadia Khan			

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy	
	Anatomy	-	Tongue, Body	Digestive	Oral Cavity, Abdomen and associated visceras	
			Cavities,	Tract &		
			Gastrointestinal	associated		
			System	organs		
				(Junqueira)		
	Biochemistry Carbohydrate metabolism, GIT digestive juices, Digestion and absorption, GIT Hormones LFTs, Jundice &			a, GIT Hormones LFTs, Jundice & Nutrition,		
	Physiology	General Principles of Gastrointestinal F	Function—Motility	, Nervous Cont	rol, and Blood Circulation	
		Propulsion and Mixing of Food in the A	Alimentary Tract			
		Secretory Functions of the Alimentary	Tract, Digestion an	nd Absorption in	n the Gastrointestinal Tract	
		Physiology of Gastrointestinal Disorder	rs			
1		0	prientation Session			
1	Department of Medical	• Orientation Session on Curricular Re	eform RMU & Fee	dback of Year 2	2023	
	Education (DME)	• Student Session on Standardization	of Teaching Strateg	gies		
			Spiral Courses			
	The Holy Quran Translation The Holy Quran Translation Component					
		• Imaniat I				
		• Ibadat I				
		• Ibadaat-II				
		• Imaniyaat-II				
		• Ibadaat-III				
		• Imaniat-III				
	Pak Studies/Islamiyat	• Tehreek-E-Pakistan Islaahi Tehreeka	an			
		• Akhirat-I				
		• Toheed	• •			
		• Qayam e Pakistan, Aghraaz o Maqas	sid			
		• Tehreek-e-Aligarh, Sir Syed Ahmad	Khan			
	Diasthias & Drafaggian align	• Aknirat - II				
	Bioeunics & Professionalism	Pakistan Medical & dental council C	ode of Ethics			
	Kesearch (IUGKU)	• Introduction to descriptive statistics (Research-I)				
		• Classification of different types of D	ata (Kesearch-II)			
		• Scales of Data measurement (Resear	cn-III)			
		Measures of central Tendency (Rese	arch-IV)			

# **Discipline wise Details of Modular Content**

	• Compute & Interpret measures of central tendency (Research-V)	
	Measure of dispersion/ Secondary data Analysis (Research-VI)	
Radiology & Artificial	Medical imaging of abdomen- I	
Intelligence	Medical imaging of abdomen-II	
Family Medicine	Common Abdominal diseases	
Behavioral Sciences	Eating Disorders	
	Vertical Integration	
Clinically content relevant	to GIT module	
• Concept of health & disease (Community medicine)		
Epidemiology of infectious diseases & Basic Concepts (Community medicine)		
Peptic ulcer (Medicine)		
• Jaundice (Medicine)		
Irritable Bowel Syndrome (Medicine)		
Antidiarrheal drugs & drugs for Peptic Ulcer Disease (Pharmacology)		
Acute & Chronic Diarrhea (Pediatrics)		
• Common GIT problems in pregnancy (Hyperemesis gravidarum, GERD, Constipation, hemorrhoids) (Gynae and OBS)		

#### **Categorization of Modular Content** Anatomy: **CATEGORY C CATEGORY A CATEGORY B Special Embryology** Special **Demonstrations** Practical's CBL SSDL Histology Development Of -Histological **Gross Anatomy:** • Acute Appendicitis • Subdivission of • Anteriolateral Histology of • Features Of --Topographical Organization Of • Liver & Portal Pretonial Cavity Tongue & Abdominal Wall - Salivary Glands Tongue, GIT • Liver-II (Functional **Rectus Sheath** Hypertension Salivary glands • -Oral Cavity - Esophagus & - Salivary Glands Sagments) Peritoneum & • Esophagus & -General -Tongue Spleen ٠ Peritoneal Cavity Stomach Structure of GIT - Salivary Glands • Pancrease Small Intestine • Liver & - Gallbladder & - Esophagus & -Anterolateral Abdominal Wall Large Intestine ٠ Gallbladder Stomach -Rectus Sheath Liver & Pancrease • - Liver -Inguinal Region & Hernias Small Intestine - Small Intestine Blood Supply, • - Large Intestine - Gallbladder & - Testes Large Intestine Venous drainage, Pancreas -Scrotum Lymphatic drainage -Peritoneum & Peritoneal Cavity - Small Intestine • Rectum & Anal -Subdivisions of Peritoneal Cavity - Large Intestine Canal -Esophagus • Innervation of -Stomach Abdominal Vessras -Small & Large Intestines -Liver -Gallbladder -Biliary Apparatus -Spleen -Pancreas -Vasculature of GIT -Portosystemic Anastomosis -Rectum -Anal Canal -Innervation of Abdominal Viscera

**Category A:** By Professors

Tongue,

Stomach

- Liver

Pancreas

Category B: By Associate & Assistant Professors

Development of **Body Cavities** Histology Of Liver

Category C: By Senior Demonstrators

SDL

## **Teaching Staff / Human Resource of Department of Anatomy**

Sr. #	Designation of Teaching Staff / Human Resource	Total Number of Teaching Staff
1.	Professor of Anatomy department	01
2.	Assistant professor of Anatomy department (AP)	01
3.	Demonstrators of Anatomy department	04

#### **Contact Hours (Faculty)**

<b>Sr.</b> #	Hours Calculation for Various Type of Teaching	Total Hours
	Strategies	
1.	Large Group Interactive Session (LGIS)	38 hours
2.	Small Group Discussions (SGD)	31 hours
	Supervised Self-Directed Learning (SSDL)	6 hours
3.	Practical / Skill Lab	37.5 hours

#### **Contact Hours (Students)**

Sr. #	Hours Calculation for Various Type of Teaching Strategies	<b>Total Hours</b>
1.	Large Group Interactive Session (LGIS)	19 hours
2.	Small Group Discussions (SGD)	31 hours
	Supervised Self-Directed Learning (SSDL)	6 Hours
3.	Practical / Skill Lab	7.5 hours
4.	Self-Directed Learning (SDL)	20 hours

## **Physiology:**

Category A	Category B	Category C
Introduction to GIT, electrical activity in GIT,	Saliva and mastication, stages of swallowing, clinical	PBL:
Enteric Nervous System and GIT reflexes (Dr.	disorders of esophagus and swallowing, achalasia and	
Samia Sarwar)	vomiting (Dr. Shazia)	
Small intestine motility and malabsorption	Movements of GIT, control of GIT motility and	CBL:
(sprue, paralytic ileus and Crohn's disease) ( <b>Dr</b> .	factors affecting GIT blood flow, hormones of GIT	Peptic Ulcer
Samia Sarwar)	(Dr. Aneela)	Food poisoning
	Motor functions of stomach, physiology of regulation	Practical:
	of gastric emptying (Dr. Shazia)	Sense of taste
		Sense of smell
		Examination of superficial reflexes (CNS)
		Examination of deep reflexes
		Performance of axon reflex (triple response of skin)
	Physiology of liver and gall bladder, liver and biliary	SGD:
	secretion(Dr. Aneela)	Saliva and mastication, stages of swallowing, clinical disorders of esophagus and
		swallowing, achalasia and vomiting
		Motor functions of stomach, physiology of regulation of gastric emptying
		Physiology of liver and gall bladder, liver and biliary secretion
	Gastric secretion, digestion in stomach, peptic ulcer	SDL:
	and gastritis (Dr. Shazia)	Introduction to GIT, electrical activity in GIT, Enteric Nervous System and GIT
	Liver function tests, types of jaundice,	reflexes
	pathophysiology of cirrhosis and portal hypertension	Gastric secretion, digestion in stomach, peptic ulcer and gastritis
	(Dr. Aneela)	Small intestine motility and malabsorption (sprue, paralytic fleus and Cronn's
	Intestinal secretion and its functions, pancreatic juice,	disease) Intertingle correction and its functions, noncreatic inical its composition and
	its composition and functions, pancreatitis, overall	functions
	(anima and a fatter and a barrent) (Dr. Anada)	Panarootitic overall mechanism of digastion and absorption of intesting (aming
	(amino acids, fatty acids and glucose) (Dr. Aneela)	rancie fatty acids and glucoso)
	notion function of large gut, defection reflex and	Motor function of large gut defecation reflex
	colitic mass color and corringma of color) (Dr	Pathonhysiology (diarrhea constination ulcerative colitis mega colon and
	Shazia)	carcinoma of colon)
Category A. By HOD and Associate Professor	Shazia)	
Category A: by HOD and Associate Professor		

Category B: By All (HOD, Associate, Assistant, Senior Demonstrators) Category C: By Demonstrators and Residents

Sr. <i>‡</i>	Designation Of Teaching Staff / Human Resource	Total Number of Teaching Staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01 (DME)
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	08

# **Teaching Staff / Human Resource of Department of Physiology**

#### **Contact Hours (Faculty) & Contact Hours (Students)**

Sr. #	Hours Calculation for Various Type oTeaching Strategies	Total Hours
1.	Large Group Interactive Session (Lectures)	22 hours
2.	Small Group Discussions (SGD)/CBL	38.5 hours
3.	Problem Based Learning (PBL)	2.5 hours
4.	Practical / Skill Lab	38.5 hours
5.	Self-Directed Learning (SDL)	17 hours

## **Biochemistry:**

CATEGORY A	CATEGORY B	CATEGORY C			
Introduction to Carbohydrate metabolism	Saliva	PBL: GERD (Gastroesophageal Reflux			
		Disease)			
Glycolysis	Gastric Juice	CBL: G6PDH Deficiency			
Fate of Pyruvate		Lactose Intolerance			
Gluconeogenesis	Bile & Pancreatic Juice	Practical: Saliva			
Metabolism of Individule sugars		Bile			
		Analysis Of Food Components (Wheat)			
TCA cycle	Nutrition	SGD: Gluconeogenesis and Its Regulation			
Glycogen metabolism	GIT Hormones & Succus Entericus	Jaundice And LFTs			
LFTS, Jaundice					
Digestion And Absorption of Carbohydrates, Proteins and Lipids					
Category A*: By Assistant Professor & Senior Demonstrators with Postgraduate Qualification					
Category B**: By Senior Demonstrators					
Category C***: By Senior Demonstrators & Demonstrators					

# **Teaching Staff / Human Resource of Department of Biochemistry**

Sr. #	<b>Designation of Teaching Staff / Human Resource</b>	Total Number of Teaching Staff
1	Assistant Professor of Biochemistry Department (AP)	01
2	Demonstrators of Biochemistry Department	06

#### Contact Hours (Faculty) & Contact Hours (Students)

	Hours Calculation for Various Type of	<b>Total Hours</b>	Total Hours
<b>Sr.</b> #	Teaching Strategies	(Faculty)	(student)
1.	Large Group Interactive Session (LECTURES)	20 hours	10 hours
2.	Small Group Discussions (SGD)	38 hours	7.5 hours
4.	Practical / Skill Lab	38 hours	7.5 hours
5.	Self-Directed Learning (SDL)	4 hours	05 hours

					(26-	02-202	4 to	02-03-2024	.)				
DATE/DAY	8:00am-	9:20am	9:20am	– 10:10am	10:10am –	1	0:30am	-11:20am	11:20	am-12:10pm	12:10pm-	12:30pm – 2:00pm	Home Assignments(2HR)
			PHYSIO	LOGY LGIS	10.50aiii		DME	(LGIS)	BIOCHE	MISTRY LGIS	12.30pm	DISSECTION/SGD	
26-02-2024 MONDAY	Practical & Topic & Venue The	<b>CBL/SGD</b> Mentioned at End	Introduction to GIT Electrical Activity in GIT, Enteric Nervous System & GIT Reflexes	Saliva &Mastication, Stages ofSwallowing, Clinical DisordersofEsophagus &Swallowing, Achalasia & Vomiting		Orientat Reform I	ion Sess RMU & 20	ion on Curricular Feedback of Year 123	Introduction to Carbohydrate Metabolism	Saliva		Topographical Organization of GIT Refere to Table No. 1	SDL Physiology Enteric Nervous System
			Prof. Dr. Samia Sarwar /	Dr Shazia (Odd)		Prof Ifra	Saeed	Dr. Sidra hamid	Dr Uzma Zafar	Dr. Almas			
			Dr. Aneela (Even)		-	(Eve	n)	(Odd)	(Even)	(Odd) MISTRY L CIS		DISSECTION/SCD	
27-02-2024 TUESDAY	Practical & Topic & Venue The	CBL/SGD Mentioned at End	Saliva & Mastication, Stages of Swallowing, Clinical Disorders of Esophagus & Swallowing, Achalasia &Vomiting	Introduction to GIT Electrical Activity in GIT, Enteric Nervous System & GIT Reflexes	e a k	Developn Tong	ment of ue	Histology of Tongue	Carbohydrate Metabolism	Saliva	e a k	Oral Cavity, Tongue and Salivary Glands Refere to Table No.	SDL Physiology GIT Reflexes
			Dr Shazia (Even)	Prof. Dr. Samia Sarwar /	Ľ	Prof. Dr	r Ifra	Ass. Prof. Dr Maria (Odd)	Dr Uzma Zafar	Dr. Almas	Ľ		
			BIOCHEM	Alistry LGIS	2	A	NATO	MY LGIS	DN	(Even) (E (LGIS)	8	DISSECTION/SGD	
28-02-2024 WEDNESDAY	28-02-2024 /EDNESDAY Practical &CBL/SGD Topic & Venue Mentioned The End		Metabolism of Monosaccharide & Disaccharide (Fructose, Lactose, Galactose)	Glycolysis		Histology Tongu		Development of Tongue	Student Sessior Teaching Stratigies with Worth	on Standardization of & feedback of year 2024 y Vice Chancellor		Anterolateral Abdominal Wall Refere to Table No.1	SDL Biochemistry Glycolysis
			Dr. Aneela Dr Uzma Zafar (Even) (Odd)		-	Ass. Pro	of. Dr	Prof. Dr Ifra	Dr. Sidra Hamid	Dr. Rizwana Shahid		Refere to Table No.1	
			(Even)	(Odd)	-	Maria (H	Even)	(Odd) MV I CIS	(Even)	(Odd) MISTRY I CIS		DISSECTION/SCD	
29-02-2024 THURSDAY	Practical & Topic & Venue The	CBL/SGD Mentioned at End	Concept of Health & Disease	Epidemiology of Infectious Diseases& Basic Concepts		Development of Salivary Glands		JMY LGIS       Histology       Salivary Glands	Glycolysis	Monosaccharide & Disaccharide (Fructose, Lactose, Galactose)		Rectus Sheath Refere to Table No.1	SDL Anatomy Anterolateral Abdomina Wall
			Dr. Rizwana Shahid	Dr. Asif		Prof. Dr	r Ifra	Ass. Prof. Dr Maria (Odd)	Dr Uzma Zafar (Even)	Dr. Aneela			
	8:00-9	00AM	9:00-	10:00AM		10:00-1	1) 1:00AN		(Even)	0-12:00PM			
	ANATOM	<b>IY LGIS</b>	BIOCHEM	AISTRY LGIS	Q	URAN TRA	ANSLA	ΓΙΟΝ Ι	COMMUNIT	Y MEDICINE LGIS			
01-03-2024 FRIDAY	Histology Salivary Glands	Development Of Salivary Glands	Fate of Pyruvate	Gluconeogenesis	Imania	at I		Ibadat I	Epidemiology of Infectious Diseases Basic Concepts	Concept of Health & Disease			
	Ass. Prof. Dr Maria (Even)	Prof. Dr Ifra (Odd)	Dr Uzma Zafar (Even)	Dr. Aneela (Odd)	Mufti Naeen	n Sherazi	Dr. Fa	ahd Anwar (Odd)	Dr. Asif (Even)	Dr. Rizwana Shahid (Odd)			
		(000)	BEHAVIOR	AL SCIENCES	10:10am – 10:30am	I	PBL SES	SSION – I		(000)			
02-03-2024 SATURDAY	Practical & Topic & Venue The	CBL/SGD Mentioned at End	Eating	Disorders	e a k	I Team	PBL SES Leader D	SSION – I Dr. Sidra Hamid		Election	S		SDL Anatomy Rectus Sheath
			Dr. Sadia Yasir (Even)	Dr. Zona Tahir (Odd)	Br	Physiolo	gy Batcl	h Teachers Of 2 <sup>nd</sup>					

Batch Distribution for Practical Stills (all subjects)         Topics for Skill Lab with Yenue         School         Schol         School         School						Table No.	1 (Time:	12:20pm – (	02:00pm)								
Skills (all subjects) (Biock-mistry and Physiology)         Filtsiology Of Tongue and Salivary Glands (Anatomy Histology Pacical) Venue- Histology Lab-Dr Gaiti Ara - Subia 1 (Biochemistry Practical) Venue- Histology Lab-Dr Gaiti Ara - Subia 1 (Biochemistry Practical) Venue- Histology Pacical) Venue- Biochemistry Laboratory Venue – Physiology Practical)         Manuel Histology Pacical Name         Biochemistry Pacical Name         Physiology Practical Name         Physiology Practical Name         Biochemistry Pacical Name         Physiology Practical Name         Biochemistry Pacical Name         Physiology Pacical Name         Biochemistry Pacical Name         Physiology Pacical Name         Biochemistry Pacical Name         Physiology Pacical Name         Biochemistry Pacical Name         Physiology Pacical Name         Physiology Pacical	Batch D	istribution	for Practical	Topics for Skill Lab	with Venue				Sched	lule for Praction	cal / Small	Group Discus	ssion				
CBL / Small Group Discussion (Biochemistry Partical)         Catalon Physiology Partical Solution         Anatomy Histology Partical) Venue- Histology Lab-Dr Gaith Ara Saliva I (Biochemistry Laboratory Biochemistry Laboratory Sense Of Taste (Physiology Partical) Venue- Biochemistry Laboratory Venue – Physiology Lab         Monday Discretize (Physiology Partical)         Partical Batch         Parcical Teacher         Parcical Batch         Parcical Teacher         Stock         Teacher         Batch         Teacher         Stacia         E         Dr. Nayab         A         Dr. Shazia         E         Dr. Nayab         A         Dr. Nayab         A         Dr. Nayab         A         Dr. Nayab         Dr. Nay	Skills (a	ll subjects	)	Histology Of Tongue an	d Salivary Glands	Day	Histolo	gy Practical	Bio	chemistry	Ph	ysiology	Ph	iysiology	Bio	chemistry	
(Biochemistry surplex)       Histology Lab-Dr Gaüi Ara       Batch       Teacher	CBL/S	mall Grou	p Disscusion	(Anatomy Histology Pra	ctical) Venue-				Р	ractical	P	ractical		SGD		SGD	
str. vol.         Baitch         Roll No.         Name         Name <td>(Bioche</td> <td>mistry and</td> <td>Physiology)</td> <td>Histology Lab-Dr Gaiti</td> <td>Ara</td> <td></td> <td>Batch</td> <td>Teacher</td> <td>Batch</td> <td>Teacher</td> <td>Batch</td> <td>Teacher</td> <td>Batch</td> <td>Teacher</td> <td>Batch</td> <td>Teacher</td>	(Bioche	mistry and	Physiology)	Histology Lab-Dr Gaiti	Ara		Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher	
Sr. No.         Batch         Roll No.         Biochemistry Laboratory         Monday         C           1.         A         01-70         Sense Of Taxe (Physiology Pacine)         Monday         C         Dr. Rahat         E         Dr. Ancela         D         Dr. Ancela         D           2.         B         71-140         Sense Of Taxe (Physiology Pacine)         Thursday         B         D         Dr. Ancela         B         Dr. Ancela         D         Dr. Nayab         A           3.         C         141-210         D         211-280         Topics for SGDs with Venue         Topics for SGDs with Venue <td></td> <td></td> <td></td> <td>• Saliva I (Biochemistry F</td> <td>ractical) Venue-</td> <td></td> <td></td> <td>Name</td> <td></td> <td>Name</td> <td></td> <td>Name</td> <td></td> <td>Name</td> <td></td> <td>Name</td>				• Saliva I (Biochemistry F	ractical) Venue-			Name		Name		Name		Name		Name	
I.       A       OI-70       Sense Of Taste (Physiology Practical) Venue – Physiology Lab       Tuesday       D       E         2.       B       71-140       Venue – Physiology Lab       Wednesday       E       D       D. r. Nayab       A       Dr. Aneela       B       Dr. Shazia       E         3.       C       141-210       Venue – Physiology SGD: Saliva and mastication, stages of swallowing, clinical disorders of esophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No.       Topics for SGDs with Venue       Table No. 2 Batch Distribution and Venues for Annony Teacher Mathematication, stages of swallowing, clinical disorders of sophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No.       Anatomy Teacher       New Lecture Hall Complex OI         5.       B       E       281-00x       Mathematication, stages of swallowing, clinical disorders of sophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No.       B       121-240       Dr. Sinaita Ara       New Lecture Hall Complex OI       Venue         Table No. 3 Batch Distribution with Venues and Teachers       Name       Name       Venue       Teachers         S No.       Batches       Roll No       Venue       Venue       Teachers         S No.       Batches       Roll No       Venue       Venue       Teachers <td colspa<="" td=""><td>Sr. No</td><td>Batch</td><td>Roll No.</td><td>Biochemistry Laborator</td><td>Į.</td><td>Monday</td><td>С</td><td></td><td>В</td><td>Dr. Rahat</td><td>E</td><td>Dr. Kamil</td><td>А</td><td>Dr. Aneela</td><td>D</td><td>Dr. Uzma</td></td>	<td>Sr. No</td> <td>Batch</td> <td>Roll No.</td> <td>Biochemistry Laborator</td> <td>Į.</td> <td>Monday</td> <td>С</td> <td></td> <td>В</td> <td>Dr. Rahat</td> <td>E</td> <td>Dr. Kamil</td> <td>А</td> <td>Dr. Aneela</td> <td>D</td> <td>Dr. Uzma</td>	Sr. No	Batch	Roll No.	Biochemistry Laborator	Į.	Monday	С		В	Dr. Rahat	E	Dr. Kamil	А	Dr. Aneela	D	Dr. Uzma
2.     B     71-140       3.     C     141-210       4.     D     211-280       5.     E     281-0nwards       5.     E     281-0nwards       6.     C     141-210       7.     B     D     Dr. Igra     D     Dr. Igra     C       7.     D     211-280     Physiology SGD: Saliva and mastication, stages of swallowing, clinical disorders of exophagus and swallowing, achalasi and vomiting Saliva Venue - Lecture Hall No 5     B     D     Dr. Igra     D     Dr. Igra     C       8     121-240     D     C. Gaiti Ara New Lecture Hall Complex 01     Kamil     B       8     121-240     Dr. Minabil Hag     Anatomy Lecture Hall Complex 01       8     121-240     Dr. Minabil Hag     Anatomy Lecture Hall 03       9     Saliva Venue - Lecture Hall No 5     Pisology Saliva Venue - Lecture Hall No 5     Pisology Saliva Venue - Lecture Hall No 5       9     Biochemistry SGD: Saliva Venue - Lecture Hall No 5     Pisology Solity Venue - Lecture Hall No 5     Pisology Solity Venue - Lecture Hall No 5       9     10     101-35     Lecture Hall no.05     Dr. Farhal Jabeen (PGT     6     C2     (176-210)     Lecture Hall no.04     Dr. Nayab A       1.     Al     (01-35)     Lecture Hall no.03     Dr. Farhal Jabeen (P	1.	A	01-70	• Sense Of Taste (Physiol	ogy Practical)	Tuesday	D	ra	C	Dr. Nayab	Α	Dr. Aneela	В	Dr. Shazia	E	Dr. Alma	
2.         B         71-140         Wednesday         E         5         D         Dr. Uzma         B         Dr. Shazia         C         Dr. Nayab         A           3.         C         141-210         Thursday         B         A         Dr. Almas         D         Dr. Iqra         D         Dr. Iqra         C         Dr. Nayab         A           5.         E         281-onwards         Topics for SGDs with Venue         Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Disscusision SGDs / Disscussion SGDs / Disscussion SGDs / Disscussion SG				Venue – Physiology Lab	)			i A									
3.         C         141-210           4.         D         211-280           5.         E         281-onwards         Topics for SGDs with Venue         Table No. 2 Batch Distribution and Venues for Anatomy Small Group Dissession SGDs / Dissections           5.         E         281-onwards         Topics for SGDs with Venue         Table No. 2 Batch Distribution and Venues for Anatomy Teacher         Venue           6.         Physiology SGD: Saliva and suboving, clinical disorders of esophagus and suboving, clankasia and vomiting Saliva Venue - Lecture Hall No 5         B         121-240         Dr. Minahil Haq         Anatomy Lecture Hall 04           7         B         121-240         Dr Salia Bagir         Anatomy Lecture Hall 04         Saliva Venue - Lecture Hall No 5           8         121-240         Dr Salia Bagir         Anatomy Lecture Hall 04         Saliva Venue - Lecture Hall No 5           9         Biochemistry SGD: Saliva Venue - Lecture Hall No 5         Biochemistry SGD: Saliva Venue - Lecture Hall No 5         Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions           Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions           1.         A1         (01-35)         Lecture Hall #0.05         Dr. Faraha Jabeen (PGT         6         C2         (176-210)         Lecture Hall no.02	2.	В	71-140			Wednesday	E	Jait	D	Dr. Uzma	В	Dr. Shazia	С	Dr. Nayab	А	Dr.	
3.       C       141-210       Thursday       B       C       A       Dr. Almas       D       Dr. Lgra       D       Dr. Lgra       C         4.       D       211-280       Saturday       A       Dr. Sayas       C       Dr. Nayas       E       Dr. Nayas       E       Dr. Kamil       B         5.       E       281-onwards       Topics for SGDs with Venue       Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Disscussi				-												Romessa	
4.D211-280SaturdayAEDr. RomessaCDr. RomessaRol NoNoRol NoNoRol NoRol No </td <td>3.</td> <td>С</td> <td>141-210</td> <td></td> <td></td> <td>Thursday</td> <td>В</td> <td>D</td> <td>Α</td> <td>Dr. Almas</td> <td>D</td> <td>Dr. Iqra</td> <td>D</td> <td>Dr. Iqra</td> <td>С</td> <td>Dr. Naya</td>	3.	С	141-210			Thursday	В	D	Α	Dr. Almas	D	Dr. Iqra	D	Dr. Iqra	С	Dr. Naya	
5.       E       281-onwards       Topics for SGDs with Venue       Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections         8       • Physiology SGD: Saliva and matrication, stages of swallowing, clinical disorders of esophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No 5       • Biochemistry SGD: Saliva venue - Lecture Hall No 5       • Biochemistry SGD: Saliva Venue - Lecture Hall No 5       • Biochemistry SGD: Saliva Venue - Lecture Hall No 5       • Biochemistry SGD: Saliva Venue - Lecture Hall No 5       • Biochemistry SGD: Saliva Venue - Lecture Hall No 5         5.       No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiology         2.       A2       (36-70)       Lecture Hall #.04 (1st       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Mayab Zonish (PGT Physiology         3.       B1       (71-105)       Anatomy Museum (First Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Prof. Dr. Ayesha	4.	D	211-280			Saturday	А		E	Dr. Romessa	a C	Dr. Nayab	E	Dr. Kamil	В	Dr. Raha	
<ul> <li>Physiology SGD: Saliva and mastication, stages of swallowing, clinical disorders of esophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No.5</li> <li>Biochemistry SGD: Saliva Venue - Lecture Hall No.5</li> <li>Batches</li> <li>Roll No</li> <li>Venue</li> <li>Venue</li> <li>Table No. 3 Batch Distribution with Venues and Teachers</li> <li>Sr No.</li> <li>Batches</li> <li>Roll No</li> <li>Venue</li> <li>Venue</li> <li>Teachers</li> <li>Venue</li> <li>C2</li> <li>(176-210)</li> <li>Lecture Hall no.04</li> <li>Dr. Nayab Zonish (PGT Physiology (Professor of Anatomy)</li> <li>Physiology</li> <li>Physiology</li> <li>Physiology</li> <li>Prof. Dr. Agesha Yousaf</li> <li>Venue</li> <li>(106-140)</li> <li>Lecture Hall no.05</li> <li>Dr. Sidra Hamid (Assitant</li> <li>Prof. Dr. Agesha Yousaf</li> <li>Venue</li> <li>Venue</li> <li>Venue Hall no.04</li> <li>Dr. Agavad Hamid (Assitant</li> <li>Prof. Dr. Agesha Yousaf</li> <li>Venue</li> <li>Veneture Hall no.04</li> <li>Dr. Agavad Hamid (Assitant</li></ul>	5.	E	281-onwards	Topics for SGDs v	vith Venue		Table No.	2 Batch Di	stribution a	nd Venues for	Anatomy	Small Group	Disscussi	ion SGDs / Dis	ssections		
Sr No.     Batches     Roll No     Venue     Teachers     Sr No.     Batches     Roll No     Venue     Teachers       1.     A1     (01-35)     Lecture Hall no.05     pr. Satiat Jabeen (PGT)     6.     C2     (176-210)     Lecture Hall no.04     pr. Nayab Zonish (PGT Physiology)       2.     A2     (36-70)     Lecture Hall #.04 (1st Prof. pr. Asseed Or Anatomy)     Pr. Satiat Venue + Lecture Hall no.02     pr. Satiat Venue + Hall no.02     pr. Nayab Zonish (PGT Physiology)       3.     B1     (71-105)     Anatomy Museum (First Prof. pr. Ayesha Yousaf     9.     E1     (281-315)     New Lecture Hall no.01     pr. Mammand Usman (PGT Physiology)       4.     B2     (106-140)     Lecture Hall no.05     pr. Sidra Hamid (Assitant (Assitant (Assitant (Basement))     9.     E1     (281-315)     New Lecture Hall no.04     pr. Mammand Usman (PGT Physiology)       5.     C1     (141-175)     Lecture Hall no.05     pr. Sidra Hamid (Assitant (Assitant (Assitant (Assitant (Assitant (Assitant (Basement)))     10     E2     (315 onwards)     Lecture Hall no.04     pr. Mammand Usman (PGT Physiology)       5.     C1     (141-175)     Lecture Hall no.05     pr. Sidra Hamid (Assitant (Assitant (Assitant (Basement)))     10     E2     (315 onwards)     Lecture Hall no.04     pr. Mammand Usman (PGT Physiology)       6     C1     <				Physiology SGD: Sali	va and	Batches	R	oll No	Anato	my Teacher			Venue				
skil v     clinical disorders of esophagus and swallowing, achalasia and vomiting Saliva Venue - Lecture Hall No 5     B     121-240     Dr. Minahil Haq     Anatomy Lecture Hall 04       C     241 onwards     Dr Sadia Baqir     Anatomy Lecture Hall 03       Saliva Venue - Lecture Hall No 5     •     Biochemistry SGD: Saliva Venue - Lecture Hall No 5     •     Freider Hall No 5       Sr No.     Batches     Roll No     Venue     Teachers     Sr No.     Batches     Roll No     Venue     Teachers       1.     A1     (01-35)     Lecture Hall no.05     Dr. Farhat Jabeen (PGT     6.     C2     (176-210)     Lecture Hall no.04     Dr. Nayab Zonish (PGT Physiology)       2.     A2     (36-70)     Lecture Hall #.04 (1st     Prof. Dr. Ifra Saeed     7.     D1     (210-245)     Lecture Hall no.02     Dr. Iqra Ayub (PGT Physiology)       3.     B1     (71-105)     Anatomy Museum (First Floor Anatomy)     Prysiology     6.     D2     (246-280)     Conference Room (Basement)     Dr. Muhammad Usman (PGT Physiology)       4.     B2     (106-140)     Lecture Hall no.05     Dr. Sidra Hamid (Assitant (Basement)     9.     E1     (281-315)     New Lecture Hall no.01     Dr. Ramsha (PGT Physiology)       5.     C1     (141-175)     Lecture Hall no.05     Dr. Sidra Hamid (Assitant (Basement)				mastication, stages of	swallowing,	А	01-120		Dr. Gaiti	Ara	New Le	ecture Hall Co	mplex 0	1			
Since     Second S				clinical disorders of es	ophagus and	В	121-240	)	Dr. Mina	ıhil Haq	Anatom	ny Lecture Ha	11 04				
Saliva Venue - Lecture Hall No 5         • Biochemistry SGD: Saliva Venue - Lecture Hall No 2         Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiol (Basement)         2.       A2       (36-70)       Lecture Hall #.04 (1st       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Muhammad Usman (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         6.       C1       (141-175)<				swallowing, achalasia	and vomiting	С	241 onv	vards	Dr Sadia	Baqir	Anaton	y Lecture Ha	11 03				
• Biochemistry SGD: Saliva Venue - Lecture Hall No 2       • Biochemistry SGD: Saliva Venue - Lecture Hall No 2         Sr No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiology         2.       A2       (36-70)       Lecture Hall #.04 (1st       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Iqra Ayub (PGT Physiology         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor )       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor of Anatomy)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)          Basement)       Dr. Sidra				Saliva Venue - Lectur	e Hall No 5												
Lecture Hall No 2         Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         Sr No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiology)         2.       A2       (36-70)       Lecture Hall #.04 (1st       Prof. Dr. fbra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Ayab (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demostrator Physiology)          Professor of Anatomy) <td></td> <td></td> <td></td> <td>Biochemistry SGD: Sales and Sal</td> <td>aliva Venue -</td> <td></td>				Biochemistry SGD: Sales and Sal	aliva Venue -												
Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         Sr No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiol (Basement)         2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed (Professor of Anatomy)       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Muhammad Usman (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)				Lecture Hall No 2													
Sr No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physiology         2.       A2       (36-70)       Lecture Hall #.04 (1st       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Iqra Ayub (PGT Physiology         3.       B1       (71-105)       Anatomy       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02       Dr. Iqra Ayub (PGT Physiology         4.       B2       (106-140)       Lecture Hall no.03 (First       Pr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman         4.       B2       (106-140)       Lecture Hall no.03 (First       Pr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan       (Demonstrator Physiology) <t< td=""><td></td><td></td><td></td><td>Table No.</td><td>3 Batch Distributio</td><td>n with Venues</td><td>and Teach</td><td>ners Name fo</td><td>or Problem</td><td>Based Learnin</td><td>ng (PBL) S</td><td>essions</td><td></td><td></td><td></td><td></td></t<>				Table No.	3 Batch Distributio	n with Venues	and Teach	ners Name fo	or Problem	Based Learnin	ng (PBL) S	essions					
1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04       Dr. Nayab Zonish (PGT Physio)         2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed (Professor of Anatomy)       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Iqra Ayub (PGT Physio) (Basement)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology) (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05 (Basement)       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week	Sr No.	Batches	Roll No	Venue	Te	eachers	Sr No.	Batches	Roll N	C	Venu	e		Tead	chers		
Image: space state stat	1.	A1	(01-35)	Lecture Hall no.05	Dr. Farhat Jabeen	(PGT	6.	C2	(176-21	0) Lecture	e Hall no.0	4	Dr. Nay	yab Zonish (P	GT Physi	ology)	
2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed (Professor of Anatomy)       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Igra Ayub (PGT Physiology) (Basement)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT Physiology)       8.       D2       (246-280)       Conference Room (Basement) (PGT Physiology)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology) (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         So PBL Session during this week				Physiology	Physiology)					(Basen	nent)						
Image: style styl	2.	A2	(36-70)	Lecture Hall #.04 (1st	Prof. Dr. Ifra Sae	ed	7.	D1	(210-24	5) Lecture	e Hall no.0	2	Dr. Iqra	a Ayub (PGT l	Physiolog	y)	
3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week				Floor Anatomy)	(Professor of Ana	tomy)				(Basen	nent)		_	-		-	
Image: split spli	3.	B1	(71-105)	Anatomy Museum (First	Dr. Afsheen Bato	ol (PGT	8.	D2	(246-28	0) Confer	ence Roon	n (Basement)	Dr. Mu	hammad Usm	an		
4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Porf. port. Ayesha Yousaf (Porf. Aye				Floor Anatomy)	Physiology)								(PGT P	Physiology)			
Image: style styl	4.	B2	(106-140)	Lecture Hall no.03 (First	Prof. Dr. Ayesha	Yousaf	9.	E1	(281-31	5) New L	ecture Hall	no.01	Dr. Ra	msha (PGT Pl	nysiology	)	
5.       C1       (141-175)       Lecture Hall no.05 (Basement)       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week				Floor)	(Professor of Ana	tomy)											
Image: mark the image of th	5.	C1 (141-175) Lecture Hall no.05 Dr. Sidra H			Dr. Sidra Hamid	(Assitant	10	E2	(315 onwa	rds) Lecture	e Hall no.0	4	Dr. Jaw	vad Hassan			
No PBL Session during this week           Table No. 6 Venues for Large Group Interactive Session (LGIS)				(Basement)	Professor Physiol	ogy)							(Demor	nstrator Physic	ology)		
Table No. 6 Venues for Large Group Interactive Session (LGIS)						No PB	L Session	during this	week								
					Table No. 6	Venues for Lar	ge Group	Interactive S	Session (LC	HS)							
Odd Roll Numbers     New Lecture Hall Complex Lecture Theater # 01					Odd Roll Numbe	ers New Lee	cture Hall	Complex Lo	ecture Thea	ter # 01							
<b>Even Roll Number</b> New Lecture Hall Complex Lecture Theater # 04					Even Roll Numb	er New Lee	cture Hall	Complex Lo	ecture Thea	ter # 04							

			Ti	me Tabl	e for GIT Mo	dule (Second V	Week)				
					(04-03-2024	to 09-03-2024	)				
DATE/DAY	8:00am-9:20am	9:20am -	- 10:10am	10:10am – 10:30am	10:30ar	n-11:20am	11:20a	am-12:10pm	12:10pm- 12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
		PHYSIOL	OGY LGIS	Totooum	BIOCHEM	IISTRY LGIS	<b>BIOETHICS LGIS</b>	S & RESEARCH-I LGIS	12100pm	DISSECTION/SGD	
04-03-2024 MONDAY	Practical &CBL/SGD Topic & Venue Mentioned at The End	Movements of GIT, control of GIT motility and factors affecting GIT blood flow, hormones of GIT	Motor functions of stomach, physiology of regulation of gastric emptying		Gluconeogenesis	Fate Of Pyruvate	Pakistan Medical & Dental Council Code of Ethics	Introduction to Descriptive Statistics		Inguinal Region And Hernias Refere to Table No.1	SDL Physiology Control Of GI Motility & Factors Affecting GIT Blood Flow
		Dr. Aneela (Even)	Dr. Shazia (Odd)		Dr. Aneela (Even)	Dr Uzma Zafar (Odd)	Dr. Sidra Hamid (Even)	Dr. Rizwana Shahid (Odd)			
		PHYSIOL	OGY LGIS		ANATO	MY LGIS	BIOCHE	MISTRY LGIS		DISSECTION/SGD	
05-03-2024 TUESDAY	Practical &CBL/SGD Topic & Venue Mentioned at The End	Motor functions of stomach, physiology of regulation of gastric emptying	Movements of GIT, control of GIT motility and factors affecting GIT blood flow, hormones of GIT	a k	Development Of Esophagus & Stomach-1	Histology General Structure of GIT & Esophagus	Function Of NADPH & Deficiency of G6PD	Citric Acid Cycle	a k	Testes & Scrotum Refere to Table No.1	SDL Physiology Swallowing
		Dr. Shazia (Even)	Dr. Aneela (Odd)	e	Prof. Dr Ifra (Even)	Ass. Prof. Dr Maria (Odd)	Dr. Aneela (Even)	Dr Uzma Zafar (Odd)	e		
		PHYSIOL	OGY LGIS	<b>1</b>	ANATO	MY LGIS	(Even)		L I	DISSECTION/SGD	
06-03-2024 WEDNESDAY	Practical &CBL/SGD Topic & Venue Mentioned at The End	Physiology of liver and gall bladder, liver and biliary secretion	Gastric secretion, digestion in stomach, peptic ulcer and gastritis	B	Histology General Structure of GIT & Esophagus	Development Of Esophagus & Stomach-1	Disection	on & Spotting	B	Peritoneum & Peritoneal Cavity Refere to Table No.1	SDL Biochemistry TCA Cycle
		Dr. Aneela (Even)	Dr. Shazia (Odd)	-	Ass. Prof. Dr Maria (Even)	Prof. Dr Ifra (Odd)	-				-
		PHYSIOL	OGY LGIS		PHYSIO	LOGY SGD	BIOCHE	MISTRY LGIS		SSDL	
07-03-2024 THURSDAY	Practical &CBL/SGD Topic & Venue Mentioned at The End	Gastric secretion, digestion in stomach, peptic ulcer and gastritis	Physiology of liver and gall bladder, liver and biliary secretion		Movements of GIT, co factors affecting GIT	ontrol of GIT motility and blood flow, hormones of GIT	Citric Acid Cycle	Function of NADPH & Deficiency of G6PD		Sub divisions of Peritoneal Cavity	SDL Anatomy Inguinal Region Canal and Hernias
		Dr. Shazia (Even)	Dr. Aneela (Odd)		SGD Team of Second	Year MBBS	Dr Uzma Zafar (Even)	Dr. Aneela (Odd)		Refere to Table No.1	
	8:00-9:00am	9:00-1	0:00am		10:00-11:00a	m		11:00-12:00pm			
	DIGITAL LITRACY MODULE	ANATO	MY LGIS		Quran Translatio	on - II	Q	uran Translation - II		1	
08-03-2024 FRIDAY	RMU Goes digital	Development of Stomach-2	Histology of Stomach		Ibadaat-2	Imaniyaat-2	Ibadaat-2	Imaniyaat-2			
	Director IT Hafiz Shahid Mr Haider Rasool	Prof. Dr. Ifra (Even)	Ass. Prof. Dr Maria (Odd)	Dr	Fahd (Even)	Mufti Naeem Sherazi (Odd)	Dr Fahd (Odd)	Mufti Naeem Sheraz	i (Even)	-	
		RADIOLOGY INTELLIGH	& ARTIFICIAL ENCE (LGIS)	k	ANATO	OMY LGIS	BIOCHE	MISTRY LGIS	k	DISSECTION/SGD	
09-03-2024 SATURDAY	Practical &CBL/SGD Topic & Venue Mentioned	Medical Imagin	ng of abdomen-I	rea	Histology Of Stomach	Development of Stomach-2	Glycogen Metabolism	Gastric Juice	rea	Esophagus and	SDL Anatomy Peritoneum &
	at The End	Dr. Qurat ul Ain (Even)	Dr. Aniqua Saleem (Odd)	B	Ass. Prof. Dr Maria (Even)	Prof. Dr. Ifra (Odd)	Dr. Aneela (Even)	Dr. Almas (Odd)	B	stomach Refere to Table No.1	Peritoneal Cavity
	•	•	Online	LMS Assessn	nent Will be Conducte	ed on 09-03-2024, Satur	day at 8:30 pm	•		•	
										102	Page

					Table No	1 (Time)	12·20pm _	(02.00  nm)							
Batch D	istribution	for Practical	Topics for Skill La	h with Venue		5. 1 (11110)	12.20pm	Schedu	le for Practica	al / Small	Group Discus	sion			
Skills (a CBL / S	all subjects	s) p Disscusion	Histology of Esophag     (Anatomy Histology I	us & Stomach Practical) Venue-	Day	Histolog	gy Practical	Bioch	nemistry netical	Ph Ph	ysiology ractical	Ph	ysiology SGD	Bioc	chemistry SGD
(Bioche	mistry and	l Physiology)	Histology lab-Dr Min • Saliva II (Biochemistr	ahil Haq v Practical)		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name
Sr. No	Batch	Roll No.	Venue- Biochemistry	laboratory	Monday	С	aq	В	Dr. Rahat	Е	Dr. Kamil	Α	Dr. Aneela	D	Dr. Uzma
1.	А	01-70	• Sense of Smell (Physi	ology Practical)	Tuesday	D	H	С	Dr. Nayab	А	Dr. Aneela	В	Dr. Shazia	Е	Dr. Almas
2.	В	71-140	Venue – Physiology I	Lab	Wednesday	E	inahil	D	Dr. Uzma	В	Dr. Shazia	C	Dr. Nayab	A	Dr. Romessa
3.	С	141-210			Thursday	В	X	Α	Dr. Almas	D	Dr. Iqra	D	Dr. Iqra	С	Dr. Nayab
4.	D	211-280			Saturday	А	Ā	E	Dr. Romessa	С	Dr. Nayab	E	Dr. Kamil	В	Dr. Rahat
5.	E	281-onwards	Topics for SGDs / C	BL with Venue		Table No.	2 Batch Dis	stribution and	d Venues for A	Anatomy	Small Group I	Disscussio	on SGDs / Dis	ssections	
			Physiology SGD: N	Aotor functions of	Batches	Re	oll No	Anatom	y Teacher			Venue			
			stomach, physiolog	y of regulation of	А	01-120		Dr. Gaiti	Ara	New Le	ecture Hall Co	mplex 01			
			gastric emptying Ve	enue: Lecture Hall	В	121-240		Dr. Minah	il Haq	Anaton	ny Lecture Hal	1 04			
			No 5)		С	241 onw	ards	Dr Sadia I	Baqir	Anaton	ny Lecture Hal	1 03			
			Biochemistry CBL:	Glucose 6											
	Phosphate Dehydrogenase I (Venue: Lecture Hall No 2)														
					on with Vonuo	a and Taa	hara Noma	for Droblers	Deced Learn	$\mathbf{p} \in (\mathbf{DDI})$	Consions				
C N	D (1	D 11 N		. 5 Dateil Distributi					Dased Leann	ng (FDL)	368810118	1		1	
Sr No.	Batches	Koll No	Venue	le Dr. Farbet Jahaar	achers	Sr No.	Batches	Koll No	T a a france	Venu	$\frac{e}{4}$ (Decomposit)	Dr. No.	lea	CT Dhous	a1a arr)
1.	AI	(01-35)	Developer	Dr. Farnat Jabeen	(PG1	0.	C2	(176-210)	) Lecture	Hall no.0	4 (Basement)	Dr. Nayab Zonish (PGT Pl		GI Physi	ology)
2	Δ2	(36.70)	Lecture Hall # 04 (1st	Prof Dr Ifra Sage	d	7	D1	(210.245)	Lecture	Hall no ()	2 (Basement)	Dr. Iar	Avub (PGT	Physiolog	<b>T</b> ()
2.	A2	(30-70)	Floor Anatomy)	(Professor of Anat	omv)	7.	DI	(210-243)		11411 110.0	2 (Dasement)		i Ayub (I O I	1 119510108	<b>Sy</b> )
3.	B1	(71-105)	Anatomy Museum	Dr. Afsheen Batoo	ol (PGT	8.	D2	(246-280)	) Confere	nce Roon	n (Basement)	Dr. Mu	hammad Usm	nan	
4	DJ	(106 140)	(First Floor Anatomy)	Physiology) Drof Dr. Avasha	Voucof	0	<b>E</b> 1	(201 215)	Now Lo	atura Ual	no 01		maha (DCT D	hydiology	•)
4.	B2(106-140)Lecture Hall no.03 (First Floor)Prof. Dr. Ayesh (Professor of A)C1(141-175)Lecture Hall no.05 (Basement)Dr. Sidra Hami Professor Physic				comy)	9.	EI	(281-313)	) New Le		1 110.01	Dr. Ka	IIISIIa (POT P	nysiology	)
5.					Assitant	10	E2	(315 onward	ds) Lecture	Hall no.0	4	Dr. Jaw	ad Hassan		
					ogy)							(Demor	nstrator Physi	ology)	
					No P	BL Sessio	n during thi	s week							
	Table No.					ge Group I	Interactive S	Session (LGI	S)						
				Odd Roll Numbe	rs New Lec	cture Hall	Complex Le	ecture Theate	er # 01						
				Even Roll Numb	er New Lec	cture Hall	Complex $\overline{Le}$	ecture Theate	er # 04						
					•										

Time	Table	for GI	Г Module	(Third	Week)
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#### (11-03-2024 to 16-03-2024)

The Holy Month of Ramzan Observed Timining are from 08:00AM – 01 :00PM

DATE/DAY	8:00am-9:20am	9:20am – 1	l0:10am	10:10am – 10:30am	10:30an	n-11:10am	11:1	0am-11:50am		11:50am – 01:00pm	Home Assignmen	nts (2HRS)
		PHYSIOLO	GY LGIS		PHYSIOI	LOGY SDL-I	BIOCH	EMISTRY LG	IS	DISSECTION/SGD		
11-03-2024 MONDAY	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD Topic & venue mentioned at the end	Liver function tests, types of jaundice, pathophysiology of cirrhosisandportalhypertens ion Dr. Aneela	Small intestine motilityand malabsorption (sprue, paralytic ileus and Crohn's disease) Prof. Dr. Samia Sarwar/		Introduction t activity in GIT System and Dr. Uzma	to GIT, electrical , Enteric Nervous d GIT reflexes Dr. Fareed	Gastric Juice Dr. Almas	Glycogen M Dr. An	eela	Small intestine (Duodenum) Refere to Table No.1	SDL Physic Clinical disorders o & Swallowing., vomitin	ology f Esophagus Achalasia/ g
		(Even)	Dr. Shazia (Odd)		(Even)	(Even)	(Even)	(Odd	d)			
	Due officel	PHYSIOLO	GY LGIS		ANATO	OMY LGIS	RESEARC	H -I & BIOET	HICS	DISSECTION/SGD		
12-03-2024 TUESDAY	(Supervised by Prof Ifra Saeed) &CBL/SGD Topic & venue	Small intestine motility and malabsorption (sprue, paralytic ileus and Crohn's disease)	Liver function tests, types of jaundice, pathophysiology of cirrhosis and portal hypertension	a k	Development of Liver & Biliary Apparatus	Histology of Liver	Introduction to descriptive statistics	Pakistan M dental counc Ethio	edical & il Code of cs	Small intestine (Jejunum & ileum) Refere to Table No.1	SDL Physic Motor function of	ology f stomach
	mentioned at the end	Prof. Dr. SamiaSarwar / Dr. Shazia (Even)	Dr. Aneela (Odd)	r e	Prof. Dr Ifra (even)	Prof Dr. Ayesha / Dr Maria (Odd)	Dr. Rizwana Shahid (Even)	Dr. Sidra	Hamid			
		RESEARCH	I-II LGIS	$\overline{\mathbf{n}}$	ANATO	MY LGIS	BIOCH	EMISTRY LG	IS	DISSECTION/CBL		
13-03-2024 WEDNESDAX	Practical (Supervised by Prof Ifra Saeed)	Classification of diffe	erent types of data		Histology of Liver	Development of Liver & Biliary Apparatus	LFT's Jaundice	Bile & pancr	eatic juice	Liver-I CBL- Liver & portal	SDL Bioche	mistry
WEDNESDAT	Topic & venue mentioned at the end	Dr. Rizwana Shahid (Even)	Dr. Asif (Odd)		Prof Dr. Ayesha / Dr Maria (even)	Prof. Dr Ifra (Odd)	Dr. Nayab (Even)	Dr. Al (Ode	mas d)	Hypertension Refere to Table No.1	Grycogen Me	adonsin
	Practical	ANATO	OMY		MEDIC	CINE LGIS	PBL	SESSION – II		SSDL		
14-03-2024	(Supervised by Prof Ifra Saeed)	Development of Gallbladder & Pancreas	Histology of Gallbladder & Pancreas		State Of The Jau	Art Lecture On Indice	PBL Team Lea	SESSION – II der Dr. Sidra Ha	mid	Liver II (Functional	SDL Anato Small Inter	omy
IIIOKSDAT	Topic & venue mentioned at the end	Prof Dr Ifra (Even).	Ass. Prof. Dr Maria (Odd)		Worthy Vi Prof. Dr. Mu	ce Chancellor 1hammad Umar	Physiology Ba	tch Teachers Of	2 <sup>nd</sup> Year	Refere to Table No.1	Sinan inte	suite
	8:00-9:00AM	9:00-10:0	00AM		10:00-11:00A	M	11:	00-12:00PM				
	DISSECTION	ANATOM	Y LGIS	QUI	RAN TRANSLAT	FION-III	QURAN T	RANSLATION	N-III			
15-03-2024 FRIDAY	Dissoction / Spotting	Histology Of_Gallbladder & Pancreas	Development Of Gallbladder &Pancreas	Ibao	laat-3	Imaniat-3	Imaniat-3	Ibadaa	at-3			
	Dissection / Spotting	Ass. Prof. Dr Maria (Even)	Prof Dr Ifra (Odd)	Dr. Fahd Anw	var (Even)	Mufti Naeem Sherazi (Odd)	Mufti Naeem Sherazi (Even)	Dr. Fahd Anw	ar (Odd)			
		PHYSIOLO	GY LGIS		ANATO	OMY LGIS	PAK STU	DIES/ISLAMI	YAT	SDL EVALUATION	DISSECTION/SGD	
16-03-2024 SATURDAY	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD Topic & Venue	Intestinal secretion and its functions, pancreatic juice, its composition and functions, pancreatitis, overall mechanism of digestion and absorption of intestine (amino acids, fatty acids and glucose	Motor function of large gut, defecation reflex and pathophysiology (diarrhea, constipation, ulcerative colitis, mega colon and carcinoma of colon)	Break	Development Of Small Intestine	Histology Of Small Intestine	Tehreek-E- Pakistan Islaahi Tehreekain	Akhi Akhrt rat-I -I	TehreekE- Pakistan Islaahi Tehreekn	SDL Evaluation	Gallbladder & Biliary Apparatus	SDL Anatomy Large Intestine Online
	Mentioned at The End	Dr Aneela (Even)	Dr Shazia (Odd)		Prof Dr Ifra (Even)	Ass. Prof. Dr Maria (Odd)	Qari Aman Ullah (Even)	Mufi Naeem Sherazi (Odd) (Even)	Qari Aman Ullah (Odd)			SDL Evaluation
			Online LMS	Assessment V	Vill be Conducte	ed on 16-03-2024,	Saturday at 8:30 J	om				

arch Distribution for Practical Selection Statul Group Discussion It calls (all subjects) Hisology Crister & Gall Balader (Anatomy Histology Practical) Venue- Balader (Anatomy Histology Practical) Venue- Balader (Anatomy Histology Crister) Venue-Histology Laboratory-Dr Statia Balader (Anatomy Histology Practical) Venue- Balader (Anatomy Histology Laboratory-Dr Statia Balader (Anatomy Histology Practical) Venue- Balader (Anatomy Histology Practical) Venue- Balader (Pacher Balader (Anatomy Histology Practical) Venue- Balader (Pacher Balader (Pacher Balader (Pacher (Pacher (Pacher Balade						Table No	o. 1 (Time	: 12:20pm –	02:00pm)							
<ul> <li>elik (a) Bulyecis) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Anatomy Hackborgy Particial) (Back Roll No. (Biochemistry Particial) (Biochemistry Particial) (Physiology Particial) (Physiology Particial) (Physiology Particial) (Biochemistry SGD / (CHI, with Venue (Physiology CHI, Particial) (Physiology CHI, Particial) (Physiology CHI = Particial (Physiology CHI = Particial) (Physiology CHI = Partial) (Physiology CHI = Particial) (Physiology</li></ul>	Batch D	Distributio	n for Practical	Topics for Skill	Lab with Venue				Sche	dule for Practic	al / Smal	l Group Discu	ssion			
BL / Small Group Discussion icclemistry ar Physiology Non Batch Non Match Non Non Match Non Match Non Match Non Non Match N	Skills (a	all subject	s)	Histology of Live	r & Gall Bladder	Day	Histolog	gy Practical	Bio	chemistry	Ph	iysiology	Ph	ysiology	Bio	chemistry
<ul> <li>Vorme-Histology Laboratory- Dr Sadia Baqir</li> <li>No Batch Roll No.</li> <li>Bitch Roll No.</li> <li>Catal State North Roll No.</li></ul>	CBL / S	Small Gro	up Disscusion	(Anatomy Histole	ogy Practical)				P	ractical	F	ractical		SGD		SGD
No.         Back         No.         Name         N	(Bioche	emistry an	d Physiology)	Venue-Histology	Laboratory-Dr Sadia		Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher
No.       Batch       Roll No.       •       Bit (Bjochemistry Practical) Venue- Biochemistry Laboratory       Monday       C        B       Dr. Kamil       A       Dr. Kamil       A       Dr. Ancela       B       Dr. Marcela       D       Dr. Uzr         2.       B       71-140       •       Examination of Superficial Relexs (Physiology Practical) Venue- Physiology Lab       Wednessky       E       D       D. Nayah       A       Dr. Ancela       B       Dr. Nayab       A       Dr. Ancela       B       Dr. Shazia       C       Dr. Nayab       A       Dr. Ancela       B       Dr. Nayab       A       Dr. Ancela       B       Dr. Shazia       C       Dr. Nayab       A       Dr. Ancela       B       Dr. Rab         3       C       141-210       •       Physiology CBL: Peptic Ulcer       No       A       Dit Anna       No       No       No       A       Dit Anatomy Lecture Hall 0.5       B       Dit Rab       C       24 nonarrad       A       01-120       Dr. Gait Ara       New Lecture Hall 0.5       No				Baqir				Name		Name		Name		Name		Name
1       A       01-70       Biochemistry Laboratory       Tuesday       D       Z       C       Dr. Nayab       A       Dr. Aurab       B       Dr. Altrai       E       Dr. Altrai         2       B       71-140       Finite       Examination of Superficial Reflexer (Physiology Pactical) Venue – Physiology Pactical) Venue – Physiology CBL: Peptic Ulcer (Venue: Lecture Hall No 5)       Table No. 2 Batch Discribution and Venues for Antony Staturdia, Finite Antony Venue – (Venue: Lecture Hall No 5)       Table No. 2 Batch Discribution and Venues for Antony Staturdia, Finite Antony Venue – (Venue: Lecture Hall No 5)       Biochemistry SQD: Gluconcogenesis and Its Regulation (Venue: Lecture Hall No 2)       Batches       Roll No       Anatony Venue Hall Complex OI       Venue       Ve	Sr. No	Batch	Roll No.	Bile (Biochemisti	y Practical) Venue-	Monday	С	jir.	B	Dr. Rahat	E	Dr. Kamil	A	Dr. Aneela	D	Dr. Uzma
2       B       71-140       •       Examination of Superficial Reflexes (Physiology Parctical) Venue – Physiology Lab       Wednesday       E	1.	A	01-70	Biochemistry Lat	oratory	Tuesday	D	Bae	C	Dr. Nayab	A	Dr. Aneela	B	Dr. Shazia	E	Dr. Alma
Image: state of the second state of	2.	В	71-140	• Examination of S	uperficial Reflexes	Wednesday	E	lia	D	Dr. Uzma	В	Dr. Shazia	C	Dr. Nayab	A	Dr.
3.       C       14/12/10       Physiology Lab       Individy       B       Z       A       Dr. Atmins       D       Dr. Idra       C       C       Dr. Name         5.       E       281-onwards       Topics for SGDs / CBL with Venue       Table No. 2       Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections       Wenue       Venue       V	2	C	141 010	(Physiology Pract	ical) Venue –	T1	D	Sac	•	Du Alman	D	Dullar	D	Du Luna	C	Romessa
4.       D       211-220       F. Rollessa       C. B.       Dr. Nayab       Dr. Naya	<u> </u>		141-210	Physiology Lab		I nursday	B	D.	A	Dr. Almas		Dr. Iqra		Dr. Iqra		Dr. Naya
J.     L     2s1-olivatis     Topics for studys (CBL: Peptici Ulcer (Venue: Lecture Hall No 5)     Batches     Roll No     Anatomy Lecture Hall Complex 01       A     01-120     Dr. Gaiti Ara     New Lecture Hall Complex 01       Batches     A 01-120     Dr. Gaiti Ara     New Lecture Hall Complex 01       C     241 onwards     Dr. Minahil Haq     Anatomy Lecture Hall 04       Anatomy CBL: Liver and Portal Hypertension     Batches     Si No.     Batches     Not	4.	D E	211-280 281 onwords	Topics for SCDs /	CPI with Vanua	Saturday	A Tabla No	2 Potoh Di	E stribution of	Dr. Romessa	Anotom	Dr. Nayab	E	Dr. Kamil	B	Dr. Rana
<ul> <li>Physiology Ch., replie Order (Venue: Lecture Hall No 5)</li> <li>Biochemistry SGD: Gluconcogenesis and Its Regulation (Venue: Lecture Hall No 2)</li> <li>Anatomy CBL: Liver and Portal Hyperension</li> </ul> Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions Table No. 3 Batch Distribution with Venues and Teachers Sr No. Batches Roll No Venue Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions Table No. 3 Batch Distribution with Venues and Teachers Sr No. Batches Roll No Venue Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions Table No. 4 Anatomy (PGT Physiology) Physiology Prof. Dr. Arsha Paten Batcol (PGT 8. D2 (246-280) Conference Room (Basement) Dr. Muhammad Usman (PGT Physiology) Anatomy (Porfessor of Anatomy) Prof. Dr. Ayesha Yousaf Prof. Dr. Ayesha Yousaf Prof. Sor Anatomy Prof. Dr. Ayesha Yousaf Prof. Sor Anatomy Prof. Dr. Ayesha Yousaf Prof. Sor Anatomy Prof. Prof. Sor		E	201-Oliwarus	Developer CDL	Dentia Lilean	Botobos		. Z Datch Di		my Toochor	Anatomy	Siliali Gloup	Disscuss		Issections	
1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1				<ul> <li>Pllyslology CDL:</li> <li>(Venue: Lecture 1</li> </ul>	Hall No 5)		01-120		Dr. Gaiti	Ara	New L	ecture Hall Co	mplex 01	venue		
and its Regulation (Venue: Lecture Hall No 2)     D     Differential Provides Trade     Anatomy Lecture Hall 03       v     Anatomy CBL: Liver and Portal Hypertension     C     24 lowwards     Dr Sadia Baqir     Anatomy Lecture Hall 03       v     Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions     Teachers       v     Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions       v     Teachers     Sr No.     Batches     Roll No     Venue     Teachers       1     A1     (01-35)     Physiology     Physiology     First Saced     (176-210)     Lecture Hall no.04 (Basement)     Dr. Nayab Zonish (PGT Physiology)       2.     A2     (36-70)     Lecture Hall no.05     Dr. Farhat Jabeen (PGT     6.     C2     (176-210)     Lecture Hall no.02 (Basement)     Dr. Nayab Zonish (PGT Physiology)       3.     B1     (71-105)     Anatomy Museum     Dr. Arsheen Batool (PGT     8.     D2     (246-280)     Conference Room (Basement)     Dr. Muhammad Usman (PGT Physiology)       4.     B2     (106-140)     Lecture Hall no.05     Dr. Sidra Hamid (Assitant     10     E2     (315 onwards)     Lecture Hall no.04     Dr. Aswad Hassan (PGT Physiology)       5.     C1     (141-175)     Lecture Hall no.05     Dr. Sidra Hamid (Assitan				Biochemistry SG	D: Gluconeogenesis	B	121-240	)	Dr. Mins	hil Haa	Anaton	v Lecture Hal	104			
Hall No 2)       Pri Surves       Pri Surves       Pri Surves         No       Anatomy CEL: Liver and Portal Hyperension       Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04 (Basement)       Dr. Nayab Zonish (PGT Physiology)         2.       A2       (36-70)       Lecture Hall #.04       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Iqra Ayub (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum       Priviology       8.       D2       (246-280)       Conference Room (Basement)       Dr. Anatom (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.05       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.04       Dr. Jawad Hassan (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assilant       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan				and Its Regulation	Venue <sup>.</sup> Lecture	C	241 onv	vards	Dr. Sadia	Bagir	Anaton	ny Lecture Hal	104			
• Anatomy CBL: Liver and Portal Hypertension         1.       Anatomy CBL: Current Hall no.05       Dr. Statch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farhat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04 (Basement)       Dr. Nayab Zonish (PGT Physiology)         2.       A2       (36-70)       Lecture Hall #.04       Prof. Dr. fifra Saeed       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Nayab Zonish (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03       Pr. Gr. Arsheen Sor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant (Professor of Anatomy)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         State Roll Numbers         No PBL Session during this week				Hall No 2)	I (Venue: Decture	C	241 0110	vulus	Di Sudia	Duqii	7 maton		105			
Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions       No.     Batches     Roll No     Venue     Teachers       1.     A1     (01-35)     Lecture Hall no.05     Dr. Farhat Jabeen (PGT     6.     C2     (176-210)     Lecture Hall no.04 (Basement)     Dr. Nayab Zonish (PGT Physiology)       2.     A2     (36-70)     Lecture Hall no.04     Prof. Dr. Ifra Saced     7.     D1     (210-245)     Lecture Hall no.02 (Basement)     Dr. Iqra Ayub (PGT Physiology)       3.     B1     (71-105)     Anatomy Museum (First Floor     Dr. Afsheen Batool (PGT     8.     D2     (246-280)     Conference Room (Basement)     Dr. Muhammad Usman (PGT Physiology)       4.     B2     (106-140)     Lecture Hall no.03     Prof. Dr. Ayesha Yousaf     9.     E1     (281-315)     New Lecture Hall no.01     Dr. Ramsha (PGT Physiology)       5.     C1     (141-175)     Lecture Hall no.05     Dr. Sidra Hamid (Assitant Professor of Physiology)     10     E2     (315 onwards)     Lecture Hall no.04     Dr. Jawad Hassan (Demonstrator Physiology)       Session during this week				Anatomy CBL: L	iver and Portal											
Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions         No.       Batches       Roll No       Venue       Teachers       Sr No.       Batches       Roll No       Venue       Teachers         1.       A1       (01-35)       Lecture Hall no.05       Dr. Farahat Jabeen (PGT       6.       C2       (176-210)       Lecture Hall no.04 (Basement)       Dr. Nayab Zonish (PGT Physiology)         2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Muhammad Usman (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03       Prof. Dr. Ayesha Yousaf (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.04       Dr. Aawad Hassan (Demonstrator Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         Tab				Hypertension												
No.BatchesRoll NoVenueTeachersSr No.BatchesRoll NoVenueTeachers1.A1(01-35)Lecture Hall no.05 PhysiologyDr. Farhat Jabeen (PGT6.C2(176-210)Lecture Hall no.04 (Basement)Dr. Nayab Zonish (PGT Physiology)PhysiologyPhysiologyPhysiologyPhysiology1C2(176-210)Lecture Hall no.02 (Basement)Dr. Nayab Zonish (PGT Physiology)3.B1(71-105)Anatomy Museum (First Floor Anatomy)Dr. Afsheen Batool (PGT Physiology)8.D2(246-280)Conference Room (Basement) (PGT Physiology)Dr. Muhammad Usman (PGT Physiology)4.B2(106-140)Lecture Hall no.03 (First Floor) (Erst Floor)Prof. Dr. Arysha Yousaf (Porfessor of Anatomy)9.E1(281-315)New Lecture Hall no.04Dr. Ramsha (PGT Physiology)5.C1(141-175)Lecture Hall no.05 (Basement)Dr. Sidra Hamid (Assitant (Porfessor Physiology)10E2(315 onwards)Lecture Hall no.04Dr. Jawad Hassan (Demonstrator Physiology)No BIL Sestion during this weekTable No. 6 VenueVenueVenueVenueVenueVenueVenueVenueVenueVenueVenueVenueVenueVenueVenue <tr< td=""><td></td><td></td><td></td><td>Table N</td><td>No. 3 Batch Distribution</td><td>on with Venue</td><td>s and Tea</td><td>chers Name</td><td>for Problem</td><td>n Based Learn</td><td>ing (PBL</td><td>) Sessions</td><td></td><td></td><td></td><td></td></tr<>				Table N	No. 3 Batch Distribution	on with Venue	s and Tea	chers Name	for Problem	n Based Learn	ing (PBL	) Sessions				
1.       A1       (01-35)       Lecture Hall no.05 Physiology       Dr. Farhat Jabeen (PGT Physiology)       6.       C2       (176-210)       Lecture Hall no.04 (Basement)       Dr. Nayab Zonish (PGT Physiology)         2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed (Professor of Anatomy)       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Iqra Ayub (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT Physiology)       8.       D2       (246-280)       Conference Room (Basement) (PGT Physiology)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Porfessor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.03 (Basement)       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week         Ver Roll Number         New Lecture Hall Complex Lecture Theater # 01         Complex Roll Number	Sr No.	Batches	Roll No	Venue	Tea	achers	Sr No.	Batches	Roll No	)	Venu	ie		Tea	chers	
Image: Constraint of the sector of the s	1.	A1	(01-35)	Lecture Hall no.05	Dr. Farhat Jabeen (	PGT	6.	C2	(176-21	D) Lecture	Hall no.0	4 (Basement)	Dr. Na	yab Zonish (P	GT Physi	ology)
2.       A2       (36-70)       Lecture Hall #.04 (1st Floor Anatomy)       Prof. Dr. Ifra Saeed (Professor of Anatomy)       7.       D1       (210-245)       Lecture Hall no.02 (Basement)       Dr. Iqra Ayub (PGT Physiology)         3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT Physiology)       8.       D2       (246-280)       Conference Room (Basement)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05 (Basement)       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week         Table No. 6 Venues for Large Group Interactive Session (LGIS)         Odd Roll Number       New Lecture Hall Complex Lecture Theater # 01         Even Roll Number				Physiology	Physiology)											
Image: Constraint of the second se	2.	A2	(36-70)	Lecture Hall #.04	Prof. Dr. Ifra Saeec	l	7.	D1	(210-24	5) Lecture	Hall no.0	2 (Basement)	Dr. Iqr	a Ayub (PGT	Physiolo	gy)
3.       B1       (71-105)       Anatomy Museum (First Floor Anatomy)       Dr. Afsheen Batool (PGT Physiology)       8.       D2       (246-280)       Conference Room (Basement) (PGT Physiology)       Dr. Muhammad Usman (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03 (First Floor)       Prof. Dr. Ayesha Yousaf (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05 (Basement)       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week			_	(1st Floor Anatomy)	(Professor of Anato	omy)										
Image: Constraint of the second state of the second sta	3.	B1	(71-105)	Anatomy Museum	Dr. Afsheen Batool	(PGT	8.	D2	(246-28	0) Confere	nce Roon	n (Basement)	Dr. Mu	ihammad Usm	nan	
Anatomy)       Prof. Dr. Ayesha Yousaf       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         4.       B2       (106-140)       Lecture Hall no.03       (First Floor)       (Professor of Anatomy)       9.       E1       (281-315)       New Lecture Hall no.01       Dr. Ramsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan         No PBL Session during this week         Table No. 6 Venues for Large Group Interactive Session (LGIS)         Odd Roll Numbers       New Lecture Hall Complex Lecture Theater # 01         Even Roll Number       New Lecture Hall Complex Lecture Theater # 04				(First Floor	Physiology)								(PGT I	hysiology)		
4.       B2       (100-140)       Lecture Hall no.05       Prof. Dr. Ayesna rousar       9.       E1       (281-515)       New Lecture Hall no.01       Dr. Kamsha (PGT Physiology)         5.       C1       (141-175)       Lecture Hall no.05       Dr. Sidra Hamid (Assitant Professor Physiology)       10       E2       (315 onwards)       Lecture Hall no.04       Dr. Jawad Hassan (Demonstrator Physiology)         No PBL Session during this week         Table No. 6 Venues for Large Group Interactive Session (LGIS)         Odd Roll Numbers       New Lecture Hall Complex Lecture Theater # 01       Even Roll Number       New Lecture Hall Complex Lecture Theater # 04	4	<b>D</b> 2	(100 140)	Anatomy)	Duef Du Arrest V		0	E1	(201 21	<b>5</b> ) NTT		1 = 0.1		maha (DOT D	have: - 1 -	-)
C1       (First Floor)	4.	В2	(106-140)	(Eirst Elocr)	Prof. Dr. Ayesha Y	ousar	9.	EI	(281-31)	b) New Le	cture Hal	1 no.01	Dr. Ra	imsna (PGT P	nysiology	()
S.     C.     (141-175)     Eccure than no.05     Dr. stora thank (Assiant Professor Physiology)     To     E2     (315 offwards)     Eccure than no.04     Dr. stora thassail (Demonstrator Physiology)       No PBL Session during this week       Table No. 6 Venues for Large Group Interactive Session (LGIS)       Odd Roll Numbers     New Lecture Hall Complex Lecture Theater # 01       Even Roll Number     New Lecture Hall Complex Lecture Theater # 04	5	<u>C1</u>	(1/1 175)	Lecture Hall no 05	Dr. Sidra Hamid (A	niiy) Assitant	10	E2	(315 0000	rde) Lecture	Hall no (	1/1	Dr Iou	vad Hassan		
Image: Instruction of the state of the	5.		CI (141-175) Lecture Hall no.05 Dr. Sidra Hamid (A (Basement) Professor Physiolo			ov)	10	E2	(JIJ UIWa		11an no.0	-	(Demo	nstrator Phyei	ology)	
Table No. 6 Venues for Large Group Interactive Session (LGIS)       Odd Roll Numbers     New Lecture Hall Complex Lecture Theater # 01       Even Roll Number     New Lecture Hall Complex Lecture Theater # 04		1	1	(Susement)	10100001111901010	No P	BL Sessio	n during thi	s week	1				instruction i myst	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Odd Roll Numbers       New Lecture Hall Complex Lecture Theater # 01         Even Roll Number       New Lecture Hall Complex Lecture Theater # 04					Table No. 6 V	enues for Larg	e Gr <u>oup</u> J	Interactive S	ession (LG	IS)						
Even Roll Number     New Lecture Hall Complex Lecture Theater # 04					Odd Roll Number	s New Lec	ture Hall	Complex Le	cture Thea	ter # 01						
Even Roll Number     New Lecture Hall Complex Lecture Theater # 04								•								
					Even Roll Number	r New Lec	ture Hall	Complex Le	cture Thea	ter # 04						
	-															

18-03-2024     Practical (Supervised) &       18-03-2024     Ifra Saeed) &       MONDAY     Topic & Venue Meter       End     End       19-03-2024     Ifra Saeed) &	rised by Prof p CBL/SGD ( ntioned at The u	PHYSIO Motor function of large gut, defecation reflex and pathophysiology (diarrhea, constipation, ilcerative colitis, nega colon and carcinoma	LOGY LGIS Intestinal secretion and its functions, pancreatic juice, its composition and functions, pancreatitis, overall mechanism of digestion and	<b>LU-S</b> Uam	ANAT Histology Of Small	OMY LGIS Development Of Small	PHYSIO	LOGY SDL-II	SSDL	Assignments(2HRS
18-03-2024 MONDAY Practical (Supervision of the second sec	vised by Prof p CBL/SGD (( ntioned at The u n	Motor function of large gut, defecation reflex and pathophysiology (diarrhea, constipation, alcerative colitis, nega colon and carcinoma	Intestinal secretion and its functions, pancreatic juice, its composition and functions, pancreatitis, overall mechanism of digestion and		Histology Of Small	Development Of Small	Costria scoration		5522	SDL Physiology
Practical (Super		of colon)	absorption of intestine (amino acids, fatty acids and glucose)		Intestine	Intestine	peptic ul	, digestion in stomach, cer and gastritis	Spleen	Physiology of Live Gall Bladder, Live and Biliary Secretion
Practical (Super-		Dr Shazia	Dr Sidra Hamid	ł	Ass. Prof. Dr. Maria (Even)	Prof. Dr. Ifra(Odd)	Dr. Shazia	Dr. Sheena (Even)		
19-03-2024 Ifra Saed) &		BIOCHEM	IISTRY LGIS	<u> </u>	RESEAR	RCH-III LGIS	PHYSIO	LOGY SDL-III	SSDL	
TUESDAY Topic & Venue Me	CBL/SGD	Bile & Pancreatic Juice	LFT's Jaundice	e a	Scales of D	ata Measurement	Small intestine mo (sprue, paralytic ile	tility and malabsorption us and Crohn's disease)	Danaraas	SDL Physiology
End	nuoned at The	Dr. Almas (Even)	Dr. Nayab (Odd)	<b>L</b>	Dr. Rizwana Shahid (Even)	Dr. Asif (Odd)	Dr Uzma (Even)	Dr. Fareed (Odd)	Pancieas	LF18, Jaunaice
Data att and (Sama and	in dhe Duef	FAMILY M	EDICINE LGIS	, <b>e</b>	PHYSIO	LOGY SDL-IV	ANAT	OMY LGIS	CBL	
20-03-2024 Ifra Saeed) & WEDNESDAY Topic & Venue Me	CBL/SGD ntioned at The	Common Abo	dominal diseases		Intestinal secretion an juice, its comp	nd its functions, pancreatic osition and functions	Development of Large Intestine	Histology of Large Intestine I	Large intestine CBL- Acute	SDL Biochemistry Individual Sugars
End		Dr. Sadia (Even)	Dr. Ishtiaq (Odd)		Dr. Shazia (Even)	Dr. Sheena (Odd)	Prof. Dr. Ifra (Even)	Prof Dr. Saima (Odd)	Appendicitis	
Practical (Superv	vised by Prof	BIOCHEM	IISTRY LGIS	ł	ANAT	OMY LGIS	RESI	EARCH-IV	DISSECTION/ SGD	
21-03-2024Ifra Saeed) &THURSDAYTopic & Venue Me	CBL/SGD ntioned at The	Nutrition-I	GIT Hormones & Succusentericus		Histology of Large Intestine-I	Development of Large Intestine	Measures o	f central tendency	Vasculature of GIT (Blood Supply,	SDL Anatomy Liver and Pancreas
End		Dr. Rahat (Even)	Dr. Almas (Odd)		Prof Dr. Saima (Even)	Prof. Dr. Ifra (Odd)	Dr. Rizwana Shahid (Even)	Dr. Asif (Odd)	Lymphatic drainage)	
8:00am 9	: 20am	9:20am	- 10:00am		10:00-11:00a	m	11:0	0-12:00pm		
22-03-2024 FRIDAY Practical & C Topic & Venue Me	BL / SGD ntioned at The	Physics	al Activity	(	PAK STUDIE Qayam e Pakistan, Aghra	E <b>S</b> az o Maqasid	ISLA	MIYAT-I Foheed	SDL A (Blood Supply, Venous dra	natomy inage, Lymphatic drainag
End		<b>,</b> ** **			Qari Aman Ull	ah	Mufti Naed	em Sherazi (Odd)		
23-03-2024 SATURDAY					Pakistan D	ay				

					Table No	. 1 ( <u>Tim</u> e	: 12:20pm -	- 02:00pm)								
Batch D	istribution	for Practical	Topics for Skill I	Lab with Venue				Schee	lule for Praction	cal / Sma	ll Group Discu	ssion				
Skills (a CBL / S	ll subjects mall Grou	b) ap Disscusion	Histology of Small Histology Practical	Intestine (Anatomy) Venue-Histology	Day	Histolog	gy Practical	Bioc	chemistry cactical	Pl	nysiology Practical	Ph	ysiology SGD	Bio	chemistry SGD	
(Bioche	mistry and	l Physiology)	laboratory-Dr Tario	q Furqan		Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher	Batch	Teacher	
Sr No	Ratch	Poll No	• Estimation of AL1	& ALP (wheat)	Monday	C		P	Dr Dabat	E	Dr. Komil	Δ	Dr Apoolo	D	Dr. Uzma	
<u>31. NO</u>		01.70	Biochemistry labor	atory	Tuesday		-da	D C	Dr. Navah		Dr. Anoolo	A P	Dr. Shozio	E D	Dr. Almas	
1.	R	71-1/0	Examination of Da	an rofloxos	Wednesday	E E	- Hu	D	Dr. Uzma	R	Dr. Shazia	D C	Dr. Navah		Dr. Annas	
2.	D	/1-140	Examination of De     (Physiology Practic	cal) Venue –	weatesday	L	ji	D	DI. UZIIIa	D	DI. Shazha	C	DI. Nayab	Λ	Romessa	
3.	С	141-210	Physiology Lab	car) venue	Thursday	В	Taı	А	Dr. Almas	D	Dr. Iara	D	Dr. Iara	С	Dr. Navab	
4.	D	211-280			Saturday	A	Dr	E	Dr. Romessa	C	Dr. Navab	E	Dr. Kamil	B	Dr. Rahat	
5.	Е	281-onwards	Topics for SGDs /	CBL with Venue	j	Table No.	2 Batch Di	stribution a	nd Venues for	Anatom	y Small Group	Disscuss	ion SGDs / D	issections		
			Physiology SGD:	Physiology of liver	Batches	Re	oll No	Anator	ny Teacher	7 Teacher		Venue				
			and gall bladder, 1	iver and biliary	А	01-120		Dr. Gaiti	Āra	New Lecture Hall Co			omplex 01			
			secretion (Venue:	Lecture Hall No 5)	В	121-240		Dr. Mina	hil Haq	Anator	ny Lecture Hal	1 04				
			Biochemistry SGI	D: Jaundice & LFTs	С	241 onw	vards	Dr Sadia	Baqir	Anator	ny Lecture Hal	1 03				
			(Venue: Lecture H	Hall No 2)												
			Anatomy CBL: A	cute Appendicitis												
			Table N	Io. 3 Batch Distributio	on with Venue	s and Tea	chers Name	for Probler	n Based Learn	ing (PBL	.) Sessions					
Sr No.	Batches	Roll No	Tea	chers	Sr No.	Batches	Roll No	)	Ven	ue		Tea	chers			
1.	A1	(01-35)	Lecture Hall no.05	Dr. Farhat Jabeen (I	PGT	6.	C2	(176-210	)) Lecture	Hall no.(	04 (Basement)	Dr. Ma	ryam (PGT P	hysiology	r)	
			Physiology	Physiology)												
2.	A2	(36-70)	Lecture Hall #.04	Prof. Dr. Ifra Saeed		7.	D1	(210-245	5) Lecture	Hall no.(	02 (Basement)	Dr. Iqra	a Ayub (PGT	Physiolog	gy)	
	<b>D</b> 1	(51.105)	(1st Floor Anatomy)	(Professor of Anato	my)		D.	(246.20)		D		D 11				
3.	BI	(71-105)	Anatomy Museum	Dr. Afsheen Batool	(PGT	8.	D2	(246-280	)) Confere	ence Rooi	n (Basement)	Dr. Alr	nas (PBL)			
			(First Floor Anatomy)	Physiology)								Dr. Naj	am-us-Sehar	(SGD)		
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Ye (Professor of Anato	ousaf my)	9.	E1	(281-315	5) New Le	cture Hal	l no.01	Dr. Mu	hammad Usn	nan		
5.	5. C1 (141-175) Lecture Hall no.05 Dr. Nayab (PGT				ysiology)	10	E2	(315 onwa	rds) Lecture	Hall no.(	)4	Dr. Ral	nat (PBL) reed Illah (St	GD)		
	(Basement)				No P	RL Sessio	n during thi	s week				Di. Fa		(10)		
L				Table No. 6 Ve	enues for Larg	e Group I	nteractive S	ession (LG	IS)							
				Odd Roll Numbers	s New Lec	ture Hall (	Complex Le	cture Theat	ter # 01							
				Even Roll Number	New Lec	ture Hall (	Complex Le	ecture Theat	ter # 04							

DATE/DAY	8:00am-9:20am	9:20am – PHYSIOLO	- 10:10am DGY SDL-V	10:10am – 10:30am	10:30am BIOCHEMI	-11:10am ISTRY LGIS	11:10an ANATO	n-11:50am DMY LGIS	11:50am – 01:00pm DISSECTION/SGD	Home Assignments(2HRS)					
25-03-2024 MONDAY	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD	Pancreatitis, overall m and absorption of in fatty acids a	nechanism of digestion testine (amino acids, and glucose)		GIT Hormones & Succusentericus	Nutrition-I	Development of Body Cavities-I	Histology of Large Intestine-II		SDL Physiology Hormones of GIT					
	Topic & venue mentioned at the end	Dr. Uzma (Even)	Dr. Fareed (Odd)		Dr. Almas (Even)	Dr. Rahat (Odd)	Prof Dr. Ifra Saeed (Even)	Prof. Dr. Ayesha / Ass. Prof Dr Maria (Odd)	Radiological Anatomy						
		PHYSIOLO	GY SDL-VI		ANATO	MY LGIS	BIOCHEM	LISTRY LGIS	DISSECTION/SGD						
26-03-2024	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD	Motor function of 1 ref	arge gut, defecation lex	k	Histology of Large Intestine-II	Development of Body Cavities-I	Digestion & Absorption-I	Nutrition-II	<b>D</b>	SDL Physiology					
TUESDAY	Topic & venue mentioned at the end	Dr. Shazia (Even)	Dr. Sheena (Odd)	. e a	Prof. Dr. Ayesha / Ass. Prof Dr Maria (Even)	Prof Dr. Ifra Saeed (Odd)	Dr. Kashif (Even)	Dr. Rahat (Odd)	Kectum	Digestion & Absorptio					
		ANATO	MY LGIS		RESEAR	CH (LGIS)	BIOCHEM	IISTRY LGIS	DISSECTION/SGD	SDL Biochemistry					
27-03-2024 WEDNESDAY	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD	Development of body Cavities-II	Development of body Cavities-II	H	SRC (Teamwork	, Professionalism)	Digestion and absorption-I	Nutrition-II	Anal canal	Lipid Digestion and Absorbstion Online Clinical					
	Topic & venue mentioned at the end	Prof. Dr. Ifra Saeed (Evem)	Prof. Dr. Saima (Odd)		Dr. Asif (Even)	Dr. Rizwana Shahid (Odd)	Dr. Kashif (Odd)	Dr. Rahat (Even)	DIGEOTION/GOD	Evaluation					
28-03-2024 THURSDAY	Practical (Supervised by Prof Ifra Saeed) &CBL/SGD Topic & venue mentioned at the end	Pathophysiology (di ulcerative colitis carcinoma	arrhea, constipation, , mega colon and a of colon)		Synopsis w	rting session	Digestion & Absorption-II	Nutrition-III	Innervation of abdominal Viscera	SDL Anatomy Rectum & Anal cana					
	Tople & venue memoried at the end	Dr. Uzma (Even)	Dr. Fareed (Odd)		Dr. Asif (Even)	Dr. Rizwana Shahid (Odd)	Dr. Kashif (Even)	Dr. Rahat (Odd)							
	8:00-9:00AM	9:00-10	):00AM		10:00AM-11:00A	M	11:00AN	A-12:00PM							
		BIOCHEMI	STRY LGIS		DISSECTION/SO	3D	RADIOLOGY INTELLIG	& ARTIFICIAL ENCE (LGIS)							
29-03-2023 FRIDAY	Practical (Supervised by Prof Ifra Saeed) & CBL/SGD Topic & venue mentioned at the end	Nutrition-III	Digestion & Absorption-II		Cross Sectional Ana	tomy	Medical Imagin	ng of abdomen-II							
	(Saturday Batch)	Dr. Rahat (Even)	Dr. Kashif (Odd)				Dr. Sana Yaqoob (Even)	Dr. Saba Bint e Kashmir (Odd)							
30-03-2023 SATURDAY	Early Cli (Its Implementation will be e	nical Exposure* xplained on Implem	nentation page) *	Break		(Its Implement	Early Clini ation will be exp	ical Exposure* plained on Implem	entation page) *	SDL Anatom Innervation o abdominal Visceras					
			Online	LMS Assessn	nent Will be Conducted	on 30-03-2024, Sature	lay at 8:30 pm								
					Table No	o. 1 (Time	: 12:20pm -	- 02:00pm)							
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Batch D	Distribution	n for Practical	Topics for Skill	Lab with Venue				Sched	ule for Practic	cal / Sma	ll Group Discu	ssion			
Skills (a CBL / S	Skills (all subjects)• Histology of LargeCBL / Small Group DisscusionHistology Practical		e Intestine (Anatomy 1) Venue-Histology	Day	Histology Practical		Biochemistry Practical		Physiology Practical		Ph	ysiology SGD	Biochemistry SGD		
(Biochemistry and Physiology) laboratory-Dr Gaiti			i Ara		Batch	Teacher Name	Batch	Teacher	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher	
Sr No	Batch	Roll No	(Biochemistry Prac	ctical) Venue	Monday	C	Traine	B	Dr Rahat	F	Dr Kamil	А	Dr Aneela	D	Dr Uzma
1	Δ	01-70	Biochemistry labor	(Biochemistry Practical) Venue-			ra	C	Dr. Navah	A	Dr. Aneela	B	Dr. Shazia	F	Dr. Almas
2	B	71-140	Performance of Ax	on reflexes (Trinle	Wednesday	E	i A	D	Dr. Uzma	B	Dr. Shazia	C D	Dr. Navah	A	Dr
2.	D	/1110	Response of Skin)	(Physiology	weatesday	2	Jail	D	DI. OZiliu	D	DI: Shužiu	C	Dirituyuo		Romessa
3	С	141-210	Practical) Venue –	Physiology Lab	Thursday	В		А	Dr Almas	D	Dr Iara	D	Dr Iara	С	Dr Navab
4	D	211-280		Thystology Luc	Saturday	A		E	Dr. Romessa	C	Dr. Navab	E	Dr Kamil	B	Dr Rahat
5.	E	281-onwards	Topics for SGDs /	CBL with Venue	Suturuuy	Table No.	2 Batch D	stribution at	nd Venues for	Anatom	v Small Group	Disscuss	ion SGDs / Di	issections	
01		201 011/01/01	Physiology CBL:	Food Poisoning	Batches	R	oll No	Anaton	v Teacher			J	Zenue		
			(Venue: Lecture I	Hall No 5)	A	01-120		Dr. Gaiti	Ara	New I	ecture Hall Co	mplex 01	chiuc		
Biochemistry CBL : Lactose				L: Lactose	B	121-240	)	Dr Minał	nil Haq	Anatomy Lecture Hall 04					
Intolerance (Venue: Lecture Hall No.				ie: Lecture Hall No	C	241 onv	vards	Dr Sadia	Bagir	Anatomy Lecture Hall 03					
			2)			211 0110	, ai ab	Di Suulu	Buqfi	1 mator		1.02			
			Table N	No. 3 Batch Distribution	on with Venue	s and Tea	chers Name	for Problem	Based Learn	ing (PBL	L) Sessions				
Sr No.	Batches	Roll No	Venue	Tea	chers	Sr No.	Batches	Roll No		Ven	ue		Tea	chers	
1.	A1	(01-35)	Lecture Hall no.05	Dr. Farhat Jabeen (	PGT	6.	C2	(176-210	) Lecture	Lecture Hall no.04 (Basement)		Dr. Na	yab Zonish (P	GT Physi	iology)
			Physiology	Physiology)											
2.	A2	(36-70)	Lecture Hall #.04	Prof. Dr. Ifra Saeed	l	7.	D1	(210-245	) Lecture	Hall no.(	02 (Basement)	Dr. Iqra Ayub (PGT Physiology)			
			(1st Floor Anatomy)	(Professor of Anato	omy)										
3.	B1	(71-105)	Anatomy Museum	Dr. Afsheen Batool	(PGT	8.	D2	(246-280	) Confere	nce Rooi	m (Basement)	Dr. Mu	hammad Usm	nan	
			(First Floor	Physiology)								(PGT F	Physiology)		
			Anatomy)												
4.	B2	(106-140)	Lecture Hall no.03	Prof. Dr. Ayesha Y	ousaf	9.	E1	(281-315	) New Le	cture Hal	ll no.01	Dr. Ra	msha (PGT P	hysiology	y)
			(First Floor)	(Professor of Anato	omy)										
5.	C1	(141-175)	Lecture Hall no.05	Dr. Nayab (PGT Ph	nysiology)	10	E2	(315 onwar	ds) Lecture	Hall no.(	04	Dr. Jaw	ad Hassan		
			(Basement)									(Demo	nstrator Physi	ology)	
					No P	BL Sessio	n during th	is week							
				Table No. 6 V	enues for Larg	e Group I	nteractive S	Session (LGI	(S)						
				Odd Roll Number	s New Lec	ture Hall	Complex Le	ecture Theate	er # 01						
				Even Dell Name	n Norre I	(11 a)	Commission I.	ature The t							
				Even Koll Number	r New Leci	ure Hall	Complex Le	ecture Theate	er # 04						

## Time Table for GIT Module (Sixth Week) (01-04-2024 TO 06-04-2024)

Date / Days	Tentative Exam Discipline Details	Time
01-04-2024 Monday	Anatomy Written	08:00am - 11:00am
02-04-2024 Tuesday	Biochemistry Written / Assessment of Clinical Subjects	08:00am - 11:00am
03-04-2024 Wednesday	Physiology Written / Video Assisted Quiz	08:00am - 02:00pm
04-04-2024 Thursday	Anatomy Viva Voce (Roll No 1-120) Physiology Viva Voce (Roll No 121-240) Biochemistry Viva Voce (Roll No.241-onwards)	08:00am - 02:00pm
05-04-20234 Friday	Anatomy Viva Voce (Roll No.241-onwards) Physiology Viva Voce (Roll No 1-120) Biochemistry Viva Voce (Roll No 121-240)	08:00am - 02:00pm
06-04-2024 Saturday	Anatomy Viva Voce (Roll No 121-240) Physiology Viva Voce (Roll No.241-onwards) Biochemistry Viva Voce (Roll No 1-120)	08:00am - 02:00pm

Note: Detailed notice regarding content, time and venue will be issued accordingly

Note: Timetable Subject to change according to the current circumstances.

Note: OSPE wiil be conducted in block exam.

## **SECTION VIII**

# Table of Specification (TOS) For GIT Module Examination for Second Year MBBS

#### **Details of Written Assessment and Viva Voce**

Sr No	Subject	No of	Marks	Overall %	Distribution with domain	No of MCOs	Marks	Overall %	Distribution with domain	Total no. of Viva	
140		SAQS				wicqs				Questions (K)	
			20 (5 Marks	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)	25	25	50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17 MCQs)	<b>6</b> (25 Marks)	
1.	Anatomy	4			Q3: Spiral Integration (25%)	33	(1		Spiral Integration 20% (7 MCQs)		
			each)	50%Integrations (2 Questions)	Q4: Vertical integration (12.5%) + Horizontal integration (12.5%)		(1 Mark each)	50%Integrations	Horizontal Integration 8.5% (3 MCQs)Vertical Integration 22.8% (8 MCQs)		
2.			20 (5	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)			50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17MCQs)	6 (25 Marks)	
	Physiology	4	(5 Marks each)	50%Integrations (2 Questions)	Q3: Spiral integration (25%) Q4: Vertical integration (12.5%) + Horizontal integration (12.5%)	35	35 (1 Mark each)	50%Integrations	Spiral Integration 20%(7MCQs)Horizontal Integration 8.5% (3 MCQs)Vertical Integration 22.8% (8 MCQs)	-	
3.			20	20 <b>50% Core</b> Knowledge (2 Questions)	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)			50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17MCQs)	6 (25 Marks)
	Biochemistry	4	(5 Morks		Q3: Spiral integration (25%)	35	35		Spiral Integration 20% (7 MCQs)		
			each)	50%Integrations	Q4: Vertical integration		(1 Mark	50%Integrations	Horizontal Integration 8.5% (3 MCQs)		
			cacity	(2 Questions)	(12.5%) + Horizontal integration (12.5%)		each)		Vertical Integration 22.8% (8 MCQs)		
	Total	12 SAOs	60 Mar	ΔS			105 105 Marks MCOs				
	Total Marks · 60:105:75-240 Marks										
					Warks . 00+103+7.						

# Annexure I

- Model Templates for MCQ & SEQ Paper,
  - MCQ & SEQ Sample

### Rawalpindi Medical University Rawalpindi Model Template for MCQ Paper (Module & Block)

Total Marks:35 (1 mark for each question)

Date:

Roll No.\_\_\_\_

Total Time:35 Minutes

Encircle the single best response

<b>Q.</b> #	Integrated	& Clinically Oriented Assessment of the Subject of Anatomy (MCQ Paper) Section - A: Anatomy Core Knowledge 48%	Level of Cognition
	(i) Gross: 24%		
1.	a.	b.	
	с.	d.	C2
	е.		
2.	a.	b.	
	с.	d.	C2
	е.		
3.	a.	b.	
	с.	d.	C1
	е.		
4.	a.	b.	
	с.	d.	C1
	е.		
5.	a.	b.	
	с.	d.	C3
	e.		
6.	a.	b.	
	с.	d.	C3
	е.		
7.	a.	b.	
	с.	d.	C3
	е.		
8.	a.	b.	
	с.	d.	C2

	е.		
9.	a.	b.	
	с.	d.	C3
	е.		
(ii)	Histology: 12%		
10.	а.	b.	
	с.	d.	C1
	е.		
11.	a.	b.	
	с.	d.	C1
	е.		
12.	a.	b.	
	с.	d.	C1
	е.		
13.	a.	b.	
	с.	d.	C1
	e.		
( <b>iii</b> )	Embryology: 12%		
14.	a.	b.	
	с.	d.	C1
	е.		
15.	а.	b.	
	с.	d.	C3
	е.		
16.			
	a.	b.	C2
	с.	d.	
	e.		
17.	a.	b.	
	с.	d.	C1
	e.		

<b>II</b>	S	ection - B: Anatomy Horizontal Integrations 9%	
Horizo	ntal Integration with Phys	1010gy (6%)	
18.	а.	b.	
	с.	d.	C3
	e.		
19.	a.	b.	
	с.	d.	C3
	e.		
Horizo	ntal Integration with Biocl	nemistry (3%)	
20.	a.	b.	
	с.	d.	C3
	е.		
		Section - C: Anatomy Vertical Integration 23%	
21.	a.	b.	
	с.	d.	63
	е.		C2
22.	a.	b.	
	с.	d.	C3
	e.		
23.	a.	b.	63
	с.	d.	0.3
	e.		
24.	a.	b.	
	с.	d.	
	е.		C3
25.	a.	b.	
	с.	d.	C2
	e.		
26.	a.	b.	
	с.	d.	C2
	e.		

27.	a.	b.	
	с.	d.	C1
	е.		
28.	a.	b.	
	с.	d.	C3
	е.		
		Section - D: Anatomy Spiral Integration 20%	
Resea	arch (5.7%)	Securit 2011 material Spiral Integration 2010	
29.	a.	b.	
	с.	d.	01
	e.		CI
30.	a.	b.	
	с.	d.	C1
	е.		CI
Bioet	hics (5.7%)		
31.	a.	b.	
	с.	d.	C1
	е.		
32.	a.	b.	
	с.	d.	
	е.		
Famil	ly Medicine (5.7%)		
33.	a.	b.	
	с.	d.	C2
	e.		0.5
34.		_	
	a.	b.	
	с.	d.	
	е.		

Artifi	cial Intelligence (2.85%)		
35.	a. c. e.	b. d.	C2

Annexure II

• Structured Viva

# GIT Module

## Structured Viva 2nd Year MBBS Session 2023

Roll No.	Anterolateral abdominal wall & clinicals 2 marks	Oral cavity 1 mark	Inguinal canal, Testis and scrotum & clinicals 3 marks	Peritoneum & clinicals 5 marks	Esophagus, Stomach & Spleen 4 marks	Small & Large intestine & clinicals 7 marks	Liver, Pancreas, Gall bladder & clinicals 6 marks	Vasculature & Innervation of GIT 9 marks	Rectum & Anal Canal & clinicals 8 marks	Surface marking (Skill) 3 marks	Soft tissue spotting (Skill) 7 marks	Gross sketch copy (Skill) 2 marks	Professionalism (PDC)* 3 marks	Total marks 60

P: Punctuality, D: Dressing, C: Communication

Head of Anatomy Department Rawalpindi Medical University Rawalpindi

#### DEPARTMENT OF PHYSIOLOGY RAWALPINDI MEDICAL UNIVERSITY, RAWALPINDI Updated Structured Performa for Viva Voce

MOD	ULE:	DATE:		TEACHER NAME: _			SIGNATURE	
Sr. No.	Roll No.	Students Name	Definition/ Enlist/Enumerate	Physiological/ Pathophysiological Mechanism	Related Diseases/ Diagnostic Parameters/ Management / Treatment Guidelines	Additional Domains of knowledge to be Assessed • Family Medicine //reventive Medicine (/reventive Medicine) • Artificial Intelligence) • Counseling • Prevention • Social Impact • Psychosocial impact	Professionalism & Behavior Components; • Appropriate dressing & white coat • College ID cardwith picture • Behavior • Level of Confidence/ Non verbal Body language • Communication Skills • Language of Communication • Volume of voice • Clurity & flumenty of space	Total marks obtained out of 25
			Q=1 C1 (5Marks)	Q=2 C2 (8 Marks)	Q-3 C3 (6 Marks)	Community implication     Prevalence / algorithms     C1/C2/C3     (2 Marks)	Understanding of questions     Prioritizing the answers     A3     (4 Marks)	
								1

Updated on: 7th October 2023

Prof. Dr Samia Sarwar

Department of Physiology

Rawalpindi Medical University

# Rawalpindi Medical University Department of Biochemistry 2<sup>ND</sup> Year MBBS Batch 50 GIT Module (Structured Viva)

	Date:		Time:	Teacher's Na	me			
Roll No.	Classification / Definition/ Enumerate (C1) (05 Marks)	Metabolic role/ Mechanism of action/ Physiological mechanism (C2) (08 Marks)	Related clinical disorders/ Pathogenesis (C3) (07 Marks)	Additional domains of Knowledge to be assessed Family Medicine, Artificial Intelligence, Ethics and Research (C1, C2, C3) (03 Marks)	Professionalism & Behavior (A3) (02 Marks)	Total marks (25)		

**Instructions:** 

All students should bring their practical copies University **ID CARD** is must during viva examination

Dr. Aneela Jamil Head of Biochemistry Department Rawalpindi Medical University Rawalpindi

### RAWALPINDI MEDICAL UNIVERSITY, RWP ANATOMY DEPARTMENT 2<sup>nd</sup> Year MBBS Module Exam (GIT)

- 1. Omental bursa develops due to:
  - a. Gut rotation.
  - b. Rotation of stomach.
  - c. Rotation of dorsal mesogastrium.
  - d. Rotation & cavitations in dorsal mesogastrium.
  - e. Formation of synovial membrane behind stomach.
- 3. Primarily retro peritoneal organs include:
  - a. Pancreas.
  - b. Ascending & descending colon.
  - c. Kidneys & suprarenals.
  - d. Kidneys, suprarenals& rectum.
  - e. Duodenum & pancreas.
- 5. Which of the following is not a derivative of hind gut:
  - a. Left 1/3 of transverse colon.
  - b. Descending colon.
  - c. Rectum & upper part of anal canal.
  - d. ileum
  - e. Sigmoid colon

a. Longitudinal &antero posterior axes.
b. Axis formed by celiac trunk.
c. Dorsal mesogastrium.
d. Ventral mesogastrium.
e. Longitudenal axis only

4. Regarding spleen:

a. It is derived from foregut endoderm.
b. It develops from a mass of mesenchymal cells located between the layers of the dorsal mesogastrium.
c. Develops in ventral mesogastrium.
d. Is solely ectodermal.
e. Never functions as hematopoietic organ

2. Rotation of stomach takes place around:

## RAWALPINDI MEDICAL UNIVERSITY GIT MODULE EXAM 2<sup>ND</sup> YEAR MBBS ANATOMY SEQS

1.	a. Describe formation and enlist contents of rectus sheath.	2.5
	b. Give various sites of portosystemic anastomosis with its clinical significance.	2.5
2.	a. Draw and label posterior relations of right kidney.	02
	b. Give course and relations of abdomino pelvic part of left ureter.	03

### RAWALPINDI MEDICAL UNIVERSITY DEPARTMENT OF PHYSIOLOGY GIT MODULE EXAMINATION MCQ PAPER FOR SECOND YEAR MBBS

- 1. Mass Movements are initiated by following reflex:
  - a. Vomimting
  - b. Entrogastric
  - c. Gastro colic
  - d. Vasovagal
  - e. Chewing
- 3. The center for control of parasymphatetic defecation reflex is located in:
  - a. Brainstem
  - b. Meissner's plexus
  - c. Cerenbral cortex
  - d. Sacral segments of spinal cord
  - e. Myenteric plexus
- 5. The cephalic phase of gastric secretion accounts for the following percentage of total gastric secretion:
  - a. 10%
  - b. 60%
  - c. 20%
  - d. 70%
  - e. 30%

- 2. Intrinsic factor is secreted by the following cells:
  - a. Chief
  - b. Peptic
  - c. Mucus Neck
  - d. Enterochromaffin-like
  - e. Parietal
- 4. Spike potentials in intestinal smooth miscle are caused by influx of:
  - a. Sodium ions
  - b. Chloride ions
  - c. Potassium ions
  - d. Both sodium ions & calcium ions
  - e. Calcium ions

## RAWALPINDI MEDICAL UNIVERSITY GIT MODULE EXAM 2<sup>ND</sup> YEAR MBBS PHYSIOLOGY SEQS

1. A 5-year -old child went to the amusemet park. While taking rotatory rides he developed nausea, vomiting & vertigo.

a)	Name the center located in medulla for initiation of vomiting by motion sickness.	1
b)	Give a brief account of vomiting reflex leading to the vomiting act.	4

### 2. Briefly write the physiological importance of:

a)	Countercurrent blood flow in the villi	2

b) Mastication (Chewing) 3

# Rawalpindi Medical University Department of Biochemistry 2<sup>nd</sup> Year MBBS GIT Module

1. Glycogen:		2. End product of carbohydrate digestion is:	
a.	Stores are increased in fed state	a. Glucose	
b.	Structure is abnormal shaped in von Gierke's disease	b. Lactose	
c.	Less branchedstructure than starch	c. Starch	
d.	Stores in liver decrease if phosphofructokinase enzyme is deficient	d. Glycogen	
e.	Muscle glycogen provides glucose to brain during fasting	e. Maltose Synthase	
3. Regulatory enzyme of Glycogenolysis is:		4. End product of anaerobic glycolysis is:	
	a. Synthase	a. Pyruvate	
	b. Phosphorylase	b. Acetyl CoA	
	c. Branching enzyme	c. Citrate	

- d. Debranching enzyme
- e. Phosphoglucomutase mutase

### <u>SEQ</u>

Q. a. Explain composition and role of gastric juice. 03

b. Discuss fate of pyruvate. 02

d. Oxaloacetate

a. Lactate

### RAWALPINDI MEDICAL UNIVERSITY DEPARTMENT OF BIOMEDICAL ETHICS 2<sup>ND</sup> YEAR MBBS GIT MODULE

1Includes rules of conduct that may be used to regulate our activities concerning	2. The right of patients having self-decision is called.			
the biological world.	a. Justice			
a. Bio-piracy	b. Autonomy			
b. Biosafety	c. Beneficence			
c. Bioethics	d. Veracity			
d. Bio-patents	e. Fidelity			
e. Bio-logistic				
3. Following is not code of ethics.	4in the context of medical ethics, if it's fair and balanced			
a. Integrity	a. Justice			
b. Objectivity	b. Autonomy			
c. Confidentiality	c. Beneficence			
d. Behaviour	d. Veracity			
e. Autonomy	e. Fidelity			
5Principle requiring that physicians provide, positive benefits				
a. Justice				
b. Autonomy				
c. Beneficence				
d. Veracity				
e. Fidelity				