BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2024-25

THE GASTROINTESTINAL TRACT (GIT)

MODULE GUIDE – 2024-25

FIRST PROFESSIONAL M.B.B.S

BAQAI MEDICAL COLLEGE

BAQAI MEDICAL UNIVERSITY

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LIST OF ABBREVIATIONS

BMC	**Baqai Medical College**
BMU	**Baqai Medical University**
CBL	**Case Based Learning**
LGIF	**Large Group Interactive Format**
LOs	**Learning Objectives**
MCQs	**Multiple Choice Questions**
MSK	**Musculoskeletal**
OSCE	**Objective Structured Clinical Examination**
OSPE	**Objective Structured Practical Examination**
PEaRLS	**Professionalism, Ethics, Research, Leadership, Communication Skills**
PW	**Practical Work**
SDL	**Self Directed Learning**
SGD / SGT	**Small Group Discussion / Small Group Teaching**

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TS **Teaching Strategy**

BAQAI MEDICAL UNIVERSITY
VISION STATEMENT

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.

BAQAI MEDICAL UNIVERSITY
MISSION STATEMENT

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

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BAQAI MEDICAL COLLEGE
MISSION STATEMENT

To produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

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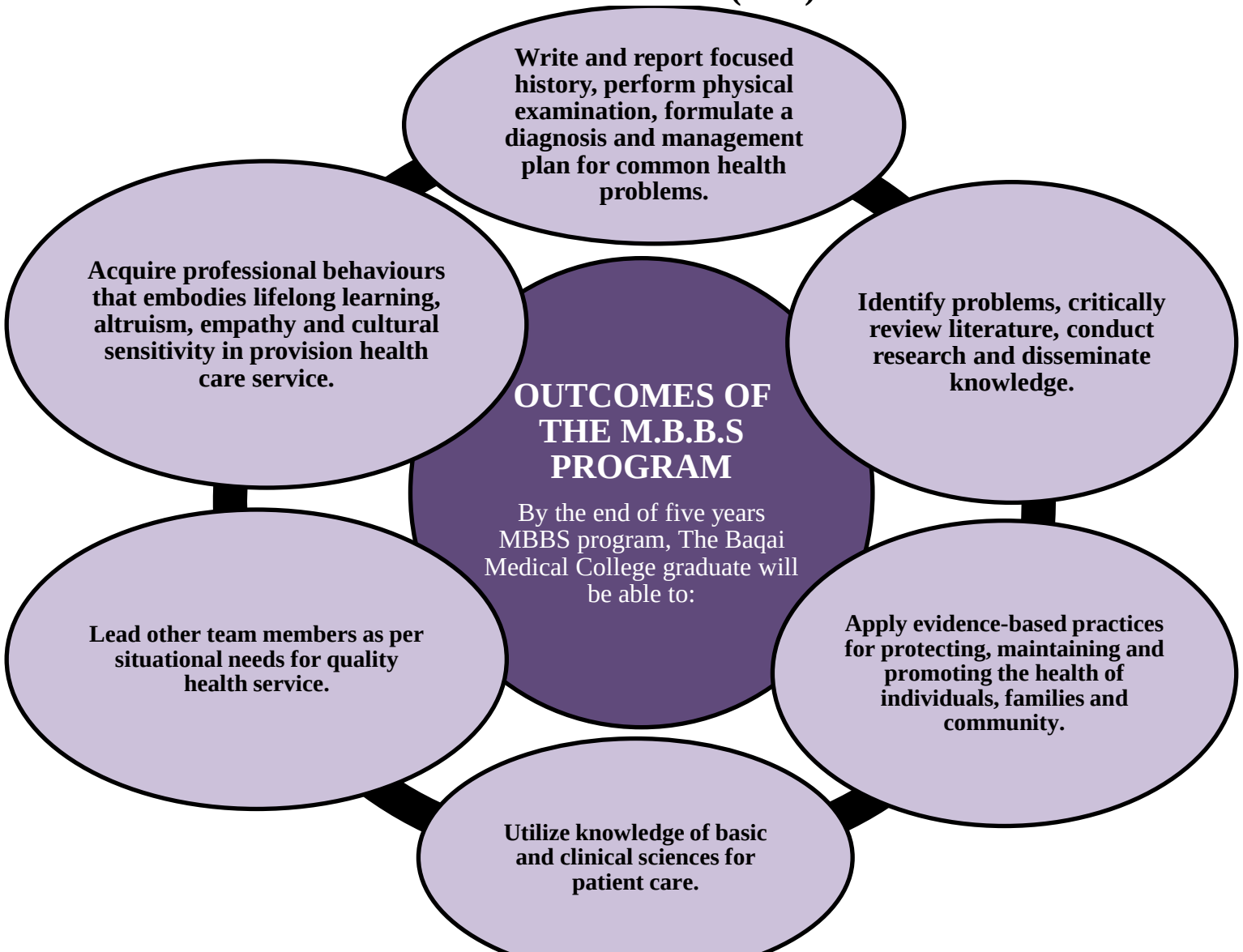

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CURRICULUM COMMITTEE

Chairman Curriculum Committee

1. Prof. Dr Farrukh Naheed, Head, Department. of Obstetrics and Gynaecology

Co-Chairman Curriculum Committee

2. Dr Maeesa Sajeel, Associate Professor, Department of Pathology

Secretary of the Curriculum Committee

3. Dr Saadia Akram, Assistant Professor, Department of Gynaecology and Obstetrics

MBBS SPIRAL 1 HEAD:

PROF DR INAYAT ALI

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1 ST YEAR MBBS (Coordinator)

DR TAYYABA KAZMI

TIMETABLE AND STUDY GUIDE TEAM

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR IFFAT Coordinator
ANATOMY	DR ANEELA
PHSIOLOGY	DR ALI
BICHEMISTRY	DR FARHAN
PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR MASOODA FATIMA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH
GYNAE/ OBS	DR NIKI-IAT ASHRAF

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RESEARCH	DR MARIA
PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRA SHAHEEN
ORTHOPEADICS	DR DANISH/ DR ABDULLAH
RADIOLOGY	DR MEHWISH

INTRODUCTION TO GASTROINTESTINAL TRACT MODULE GUIDE:

The gastrointestinal tract (GIT) is a part of the digestive system. The organs include mouth, pharynx (throat), esophagus, stomach, small intestine, large intestine, rectum and anus. Other organs include pancreas, liver and gall bladder. The food and liquid travel through when they are swallowed, digested, absorbed and leave the body as feces.

In this module, medical students will learn in detail the normal structure, function and diseases of GIT.

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YEAR TO BE TAUGHT:
First Professional M.B.B.S.

PLACEMENT OF GIT MODULE:
Sixth

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GIT MODULAR OUTCOMES

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At the end of the GIT module, 1ST year MBBS students will be able to:

- Discuss the Embryology, Histology and Gross Anatomy of GI structures like esophagus, stomach, small intestine, large intestine, liver, gallbladder, and pancreas.
- Describe Physiological Mechanisms of GI motility, digestion, absorption and liver and pancreatic functions.
- Correlate the GIT structures with physiological and biochemical processes.
- Acquire a wider and more generally applicable knowledge of metabolism, infectious disease and pathology related to GI System.
- Understand the etiology, pathogenesis, clinical manifestations,complications and management of gastrointestinal disorders
- Identify common gastrointestinal diseases and disorders, such as gastroesophageal reflux disease (GERD), peptic ulcer disease, inflammatory bowel disease (IBD), and liver cirrhosis.

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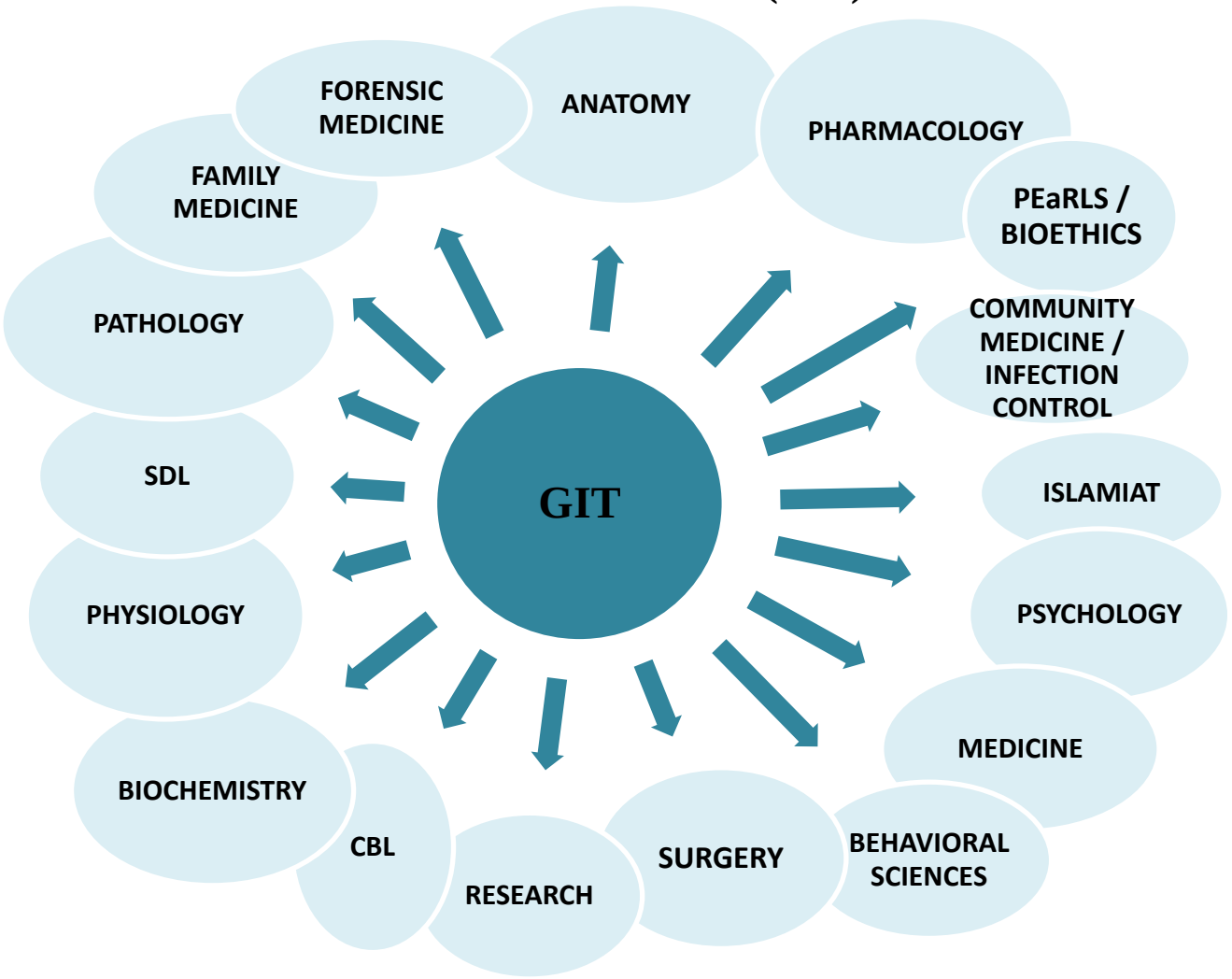

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INTEGRATED TEACHING

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TOPIC AND OBJECTIVES	TEACHING STRATEGY	DURATION	LOCATION	FACILITATOR
ANTEROLATERAL ABDOMINAL WALL By the end of lecture, student will be able to • Describe the extent of anterolateral abdominal wall. • Describe the components of anterolateral abdominal wall. • Name the muscles, their attachments, actions and innervation of anterolateral abdominal wall. • Describe the blood supply and innervation of anterolateral abdominal wall.	Lecture	60 Mins	Lecture Hall 1	Dr Hina
POSTERIOR ABDOMINAL WALL By the end of lecture, student will be able to • Discuss the muscles involves in posterior abdominal wall. • Describe the attachments, nerve supply and actions of muscles of posterior abdominal wall? • Describe other structures present in the posterior abdominal wall. • Describe formation, termination and tributaries of IVC.	Lecture	60 mins	Lecture Hall 1	Dr Aneela

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FORMATION OF GUT TUBE By the end of lecture, student will be able to • Describe the formation of gut tube. • Discuss the divisions of the gut tube. • Describe the derivatives of endoderm and visceral mesoderm. • Describe the molecular regulation of gut tube formation.	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba
DEVELOPMENT OF ESOPHAGUS By the end of lecture, student will be able to • Describe the derivatives of foregut? • Describe the formation of esophagus in detail? • Explain esophageal atresia? • Describe tracheoesphageal fistula (TEF)? Discuss congenital hiatal hernia?	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba
ORAL CAVITY AND ESOPHAGUS By the end of lecture, student will be able to • Discuss the boundaries of oral cavity. • Describe the oral mucosa and tongue. • Describe the extent of esophagus. • Explain the constrictions of esophagus.	Lecture	60 mins	Lecture Hall 1	Dr Aneela

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• Describe the lower esophageal sphincter? • Describe the blood supply, innervation and lymphatic drainage of esophagus. • Describe gastro esophageal reflux disease (GERD)?				
ESOPHAGUS By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of esophagus. • Explain mucosa, submucosa, muscularis and serosa/ adventitia of esophagus. • Describe the esophageal glands in detail.	Practical	120 mins	Histology Laboratory	Dr Aneela
HISTOLOGY OF ORAL CAVITY & ESOPHAGUS By the end of lecture, student will be able to • Describe the general structure of digestive tract? • Describe the histology of lip? • Describe the histology of tongue? • Describe the general histology of esophagus?	Lecture	60 mins	Lecture Hall 1	Dr Inayat

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• Explain mucosa, submucosa, muscularis and serosa/ adventitia of esophagus? • Describe the esophageal glands in detail?				
DEVELOPMENT OF STOMACH By the end of lecture, student will be able to • Describe the formation of stomach? • Describe the rotation of the stomach in embryo? • What is pyloric stenosis?	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba
STOMACH By the end of lecture, student will be able to • What are the parts of stomach? • Describe the attachments of stomach? • Describe the blood supply, innervation and lymphatic drainage of stomach? • What is pyloric stenosis?	Lecture	60 mins	Lecture Hall 1	Dr Hina
MOTOR FUNCTIONS OF STOMACH 1 By the end of lecture, student will be able to • List & Define the Physiologic Division of Stomach. • Explain the Arrangement of Smooth Muscles in Stomach. • List & Explain the Motor Functions of the Stomach.	Lecture	60 mins	Lecture Hall 1	Dr Saba Leeza

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• Describe Hunger Contractions & the Vomiting.				
HISTOLOGY OF STOMACH By the end of lecture, student will be able to • Describe the general histology of stomach? • Explain mucosa, submucosa, muscularis and serosa of stomach? • Describe the cells of stomach in detail?	Lecture	60 mins	Lecture Hall 1	Dr Inayat
STOMACH By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of stomach. • Explain mucosa, submucosa, muscularis and serosa of stomach. • Describe the cells of stomach in detail.	Practical	120 mins	Histology Laboratory	Dr Aneela
MOTOR FUNCTIONS OF STOMACH 2 By the end of lecture, student will be able to	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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• List the Motor Functions of Stomach • Categorize the Factors that Affects Gastric Emptying • List & Describe the Factors that Promotes Gastric Emptying • List & Describe the Factors that Inhibit Gastric Emptying				
DIGESTION AND ABSORPTION OF CARBOHYDRATES By the end of lecture, student will be able to • List the principal carbohydrates present in the foodstuffs which we take. • Describe the biochemical composition of saliva, with special stress to pH range, activating factors and action of carbohydrate splitting enzymes which is α-amylase • Outline the characteristics of α-amylase and its mode of action on starch and glycogen • Describe the biochemical composition of gastric juice, with special stress to pH ranges and enzymes present.	Lecture	60 mins	Lecture Hall 1	Dr Farhan
GLYCOLYSIS (CARBOHYDRATE METABOLISM) By the end of lecture, student will be able to • Define Glycolysis • Differentiate between aerobic and anaerobic glycolysis.	Lecture	60 mins	Lecture Hall 1	Dr Iffat

• Identify the biomedical importance of glycolytic pathway • Describe the sequence of reactions involved in glycolytic pathway • Define substrate level phosphorylation. • Name the end product formed in aerobic and anerobic glycolysis. • Describe the regulation of glycolysis via substrates, end-products and hormones • Calculate the total and net number of ATPs produced of in aerobic and anaerobic glycolysis. • List the fates of pyruvate.				
GUT WALL 1 By the end of lecture, student will be able to • List the Parts & the Organs that are Associated with G.I Tract. • List the Functions of different Parts of G.I Tract. • Name the Layers of Gut with their role. • List & Describe the Electrical Activity / Membrane Potentials of G.I Tract.	Lecture	60 mins	Lecture Hall 1	Dr Saba Leeza

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GLUCONEOGENESIS (CARBOHYDRATE METABOLISM: By the end of lecture, student will be able to • Define gluconeogenesis. • List the non-carbohydrate sources of glucose. • Identify the importance of gluconeogenesis to occur in the body. • Describe the reactions of gluconeogenesis. • Describe Cori cycle. • List the fates of lactic acid. • Describe the regulation of gluconeogenesis	Lecture	60 mins	Lecture Hall 1	Dr Iffat
KREBS CYCLE (CARBOHYDRATE METABOLISM) By the end of lecture, student will be able to • Describe the conversion of pyruvate into acetyl CoA in mitochondria. • Identify that TCA cycle is a common and final pathway for breakdown of acetyl CoA obtained from carbohydrates, proteins and lipids to CO_2 and H_2O • Describe the reactions of TCA cycle. • Define “anaplerotic reactions” • Identify the reaction of TCA cycle involved in substrate level phosphorylation.	Lecture	60 mins	Lecture Hall 1	Dr Iffat

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• Identify that TCA cycle is "**amphibolic"** in nature. • Describe the regulation of krebs cycle.				
GUT WALL 2 By the end of lecture, student will be able to • Name the Layers of GI wall • Describe Basic electrical rhythm, slow wave & spike potential • Identify the Cells responsible for pacemaker activity in GIT & their location in small & large intestine • Difference between action potential of GI smooth muscles & other muscles • Explain Factors increasing or decreasing frequency of spike potential & Phenomenon of tone, a property of GI muscles.	Lecture	60 mins	Lecture Hall 1	Dr Saba Leeza
ENTERIC NERVOUS SYSTEM 1 By the end of lecture, student will be able to • Define Enteric Nervous System • List the Divisions of Enteric Nervous System • Mention Location of Meissner's & Myenteric Nerve Plexus in the Gut Wall	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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• Describe the Role of Enteric System in Control of G.I Functions				
ENTERIC NERVOUS SYSTEM 2 By the end of lecture, student will be able to • List the types of plexus with their arrangement. • Differentiate between Myenteric & Submucosal Plexus • Name the neurotransmitters released from the enteric neurons • List & define the GIT Reflexes	Lecture	60 mins	Lecture Hall 1	Dr Adnan
GLYCOGENESIS GLYCOGEN METABOLISM By the end of lecture, student will be able to • Identify that glycogen is the major storage form of glucose in human beings Lecture Hall 1 • Describe the reactions of glycogenesis. • Describe the regulation of glycogen synthesis	Lecture	60 mins	Lecture Hall 1	Dr Kehkashan
GLYCOGENOLYSIS By the end of lecture, student will be able to • Identify that glycogen breakdown is not the reversal of glycogenesis. • Describe the reactions of glycogenolysis. • Describe the regulation of glycogenolysis	Lecture	60 mins	Lecture Hall 1	Dr Kehkashan

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AUTONOMIC CONTROL OF GIT By the end of lecture, student will be able to • Define "Autonomic Nervous System" with its Characteristic Feature • List the Divisions of Autonomic Nervous System • Explain the Role of Autonomic Nervous System in Controlling G.I Functions	Lecture	60 mins	Lecture Hall 1	Dr Adnan
DIGESTION OF LIPIDS IN STOMACH By the end of lecture, student will be able to • List the principal lipids present in the foodstuff which we take in normal diet • Outline the problems faced in digestion of lipids in GIT and how it differs from carbohydrates • Identify the role of lingual and gastric lipase in stomach • Recognize that fat in stomach delays gastric emptying • Describe the role of GI hormone "enterogastroen" • Defend that fats have high satiety value.	Lecture	60 mins	Lecture Hall 1	Dr Farhan
G.I REFLEXES 1 By the end of lecture, student will be able to • Define "Reflex" & "Reflex Arc" • List the Gastrointestinal Reflexes	Lecture	60 mins	Lecture Hall 1	Dr M Ali

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• Categorize G.I Reflexes according to the Level of their Integration.				
GASTRITIS By the end of lecture, student will be able to • Define Gastritis • Describe its Etiopathogenesis • Describe its Morphology • Classify its Types & Clinical Treatment • Describe its Laboratory Tests & Treatment.	Lecture	60 mins	Lecture Hall 1	Dr Maeesa
GASTRIC FUNCTION TESTS-1: By the end of lecture, student will be able to • Recall the constituents of gastric juice. • Identify the clinical indications for performing. gastric function tests • Describe the procedure of obtaining a sample of gastric juice from the patients. • Classify gastric function tests. • Outline the normal response of fractional test meal analysis	Lecture	60 mins	Lecture Hall 1	Dr Iffat
GASTROESOPHAGEAL REFLUX DISEASE By the end of lecture, student will be able to	Lecture	60 mins	Lecture Hall 1	Dr Masooda

• Define the disease and describe its pathogenesis • Discuss clinical features of the disease • Associate investigations to diagnose the disease • Summarise treatment plan of GERD				
GENERAL TOXICOLOGY By the end of lecture, student will be able to • Describe the Routes of Administration and Excretion of Poisons • Describe the Procedure of Gastric Lavage / Stomach Wash	Lecture	60 mins	Lecture Hall 1	Dr Jan e Alam
DEVELOPMENT OF DUODENUM By the end of lecture, student will be able to • Describe the formation of duodenum? • Describe the rotation of duodenum? • Discuss duodenal atresia.	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba
DEVELOPMENT OF MIDGUT By the end of lecture, student will be able to • Discuss Omphalocele. • Describe Gastroschisis • Explain Meckel's diverticulum. • Describe volvulus.	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba

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• Discuss apple peel atresia				
GASTRIC FUNCTION TESTS-2: By the end of lecture, student will be able to • Define Hypercholrhydria, Hypochlorhydria and achylia gastric. • Discuss about hyperchlorhydria, hypochlorhydria and achylia gastric • List the stimulation tests performed to induce gastric acid production. • Outline the interpretations of the results of stimulation tests. • Discuss about tubeless gastric analysis and its importance	Lecture	60 mins	Lecture Hall 1	Dr Iffat
G.I REFLEXES 2 By the end of lecture, student will be able to • Explain the reflexes that occur entirely via enteric nervous system, • Discuss the reflexes that are mediated via sympathetic ganglia, • Discuss the reflexes that occur via spinal cord or brain stem,	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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• Describe the effects & causative factors of entero-gastric reflex • Discuss the role of gastrocolic&duodenocolic reflexes in movements of colon, colonoileal reflex & • Identify other reflexes i.e. peritoneo-intestinal, reno&vesico-intestinal reflexes.				
DUODENUM By the end of lecture, student will be able to • Describe the parts of small intestine. • Describe the parts of duodenum and their important relations? • Describe blood supply, innervation and lymphatic drainage of duodenum. • Explain duodenal ulcer.	Lecture	60 mins	Lecture Hall 1	Dr Hina
ESOPHAGUS, STOMACH AND DUODENUM By the end of lecture, student will be able to • Recall the gross and microscopic anatomy and pathophysiology of esophagus, stomach and duodenum • Discuss the clinical importance of gastritis and Helicobacter pylori in upper GI diseases	Lecture	60 mins	Lecture Hall 1	Dr Abdullah

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• Know the appropriate investigations and clinical findings of patients with complaints relating to stomach and duodenum • Define the causses of duodenal obstruction				
JEJUNUM AND ILEUM By the end of lecture, student will be able to • Describe the anatomy jejunum? • Describe the anatomy of ileum? • What are the differences between jejunum and ileum? • Describe the blood supply, innervation and lymphatic drainage of jejunum and ileum? • Describe the mesentery of small intestine, its root its relations?	Lecture	60 mins	Lecture Hall 1	Dr Anila
SMALL INTESTINE By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels.	Practical	120 mins	Histology Laboratory	Dr Anila

• Describe the general histology of small intestine. • Explain mucosa, submucosa, muscularis and serosa of small intestine. • Describe the cells of small intestine. • What are plica circulares. • Describe villi and microvilli. • Describe the payer's patches.				
DIGESTION & ABSORPTION OF CARBOHYDRATES IN SMALL INTESTINE By the end of lecture, student will be able to • Recognize the role of carbohydrate splitting enzyme-pancreatic amylase • List the carbohydrate splitting enzymes present in intestinal epithelial cells • Recognize the site and rate of absorption of monosaccharides from GIT • List the sugars which are actively transported in GIT • Describe the characteristics of the receptor molecule which actively transports the sugars • Discuss about glucose transporters (GluT)	Lecture	60 mins	Lecture Hall 1	Dr Farhan

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• Name the sugars absorbed by facilitated diffusion				
PEPTIC ULCER DISEASE (PUD) By the end of lecture, student will be able to • Define Peptic Ulcer • Describe its Etiopathogenesis • Describe its Morphology • Classify its Types & Clinical Features • Describe its Laboratory Tests & Treatment.	Lecture	60 mins	Lecture Hall 1	Dr M Khan
MOVEMENTS OF SMALL INTESTINE 1 By the end of lecture, student will be able to • Types of movements of small intestine. • Their functions. • Different patterns of mixing contractions of small intestine. • Role of enteric nervous system in small intestinal movements &Peristaltic rush.	Lecture	60 mins	Lecture Hall 1	Dr M Ali
MOVEMENTS OF SMALL INTESTINE 2 By the end of lecture, student will be able to • Role of CGRP (calcitonin gene receptor peptide) in movements & its significance,	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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• Hormonal control of propulsive movements of small intestine i.e. hormones that stimulate & that inhibit movements • Movements of villi.				
PEPTIC ULCER DISEASE By the end of lecture, student will be able to • Define peptic ulcer and memorize its pathogenesis as well as recognize its risk factors • Discuss clinical features of peptic ulcer disease • Describe clinical manifestations of the disease • Explain the diagnostic investigations and recite the treatment options present to control the disease	Lecture	60 mins	Lecture Hall 1	Dr Masooda
ESTIMATION OF TOTAL PROTEINS II By the end of Practical, student will be able to • Record the readings of transmittance and optical density of stock standard solutions and sample with the use of spectrophotometer. • Calculate the concentration of stock standard solutions of 'S' test tubes. • Draw the graph to obtain the concentration of total proteins for the sample.	Practical	120 mins	Biochemistry Laboratory	Dr. Farhan

• Define the terms hypoproteinemia and hyperproteinemia. • Interpret the result of whether the working sample is hypoproteinemia/hyperproteinemia or within the normal range. • Discuss a few clinical causes of hypoproteinemia and hyperproteinemia.				
DEVELOPMENT OF LIVER AND GALL BLADDER By the end of lecture, student will be able to • Describe the formation of liver? • Describe the formation of gall bladder? • Explain the molecular regulation of liver induction? • Describe the accessory hepatic duct? • Explain duplication of gall bladder? • What is intra and extra hepatic billiary duct atresia?	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba
DIGESTION AND ABSORPTION OF LIPIDS IN SMALL INTESTINE By the end of lecture, student will be able to • Recognize the factors that makes small intestine the major site for fat digestion. • Describe the role of the hormones: secretin and cholecystokinin • Describe the composition of bile	Lecture	60 mins	Lecture Hall 1	Dr Farhan

• List the lipolytic enzymes present in pancreatic juice along with their pH range, mode of action and activators • List the products formed from hydrolysis of triglycerides. • Point the percentage of lipids which is absorbed • Describe the mechanism of absorption of TG products • Identify that triglycerides are packaged in chylomicrons and transported to liver.				
LARGE BLOOD VESSELS OF GIT 1 By the end of lecture, student will be able to • Describe abdominal aorta in detail • Name the branches of abdominal aorta • Explain the level of entrance and its termination in abdomen • Describe celiac trunk its branches and area of supply?	Lecture	60 mins	Lecture Hall 1	Dr Anila
LARGE BLOOD VESSELS OF GIT 2 By the end of lecture, student will be able to • Describe SMA its branches and area of supply? • Describe IMA its branches and area of supply?	Lecture	60 mins	Lecture Hall 1	Dr Anila

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• Describe portal vein its formation, course and termination? • What is aortic dissection and aortic aneurysm?				
SMALL INTESTINE By the end of lecture, student will be able to • Know the basic anatomy and physiology of small intestine • Know the conditions that may affect small intestine • Discuss the aetiology and pathology of common small intestinal conditions • Describe the principles of investigations of small intestine symptoms	Lecture	60 mins	Lecture Hall 1	Dr Sidra
DIGESTION AND ABSORPTION OF PROTEINS: By the end of lecture, student will be able to • List the principal proteins present in the foodstuffs which we take in our diet • List the proteolytic enzymes present in gastric juice • Discuss in detail the pH range, activators of the enzymes, substrates on which they act and the products formed • List the proteolytic enzymes present in the pancreatic juice	Lecture	60 mins	Lecture Hall 1	Dr Farhan

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• Discuss in detail the pH range, activators of the enzymes, substrates on which they act and the products formed • List the proteolytic enzymes present in the intestinal juice • Discuss in detail the pH range, activators of the enzymes, substrates on which they act and the products formed • Point the site of absorption of amino acids • Explain how absorbed products are carried to liver				
SALIVA AND IT'S FUNCTIONS By the end of lecture, student will be able to • Locate the G.I Glands & their secretions • Summarize the types of salivary gland with their secretions • Describe the components & importance of saliva. • Explain the mechanism of salivary secretion. • Discuss the factor regulating salivary secretions	Lecture	60 mins	Lecture Hall 1	Dr M Ali
DEGLUTITION By the end of lecture, student will be able to • Define deglutition. • List the phases of deglutition. • Locate the deglutition center in the brain.	Lecture	60 mins	Lecture Hall 1	DR Adnan

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ESTIMATION OF ALBUMIN : GLOBULIN RATIO I By the end of Practical, student will be able to • State the normal range of Albumin: globulin ratio. • Name the reagents to be used in the experiment. • Read the instructions to prepare the stock standard solutions of Albumin and the sample. • Describe the principle of the reaction taking place in the experiment. • Record the readings of transmittance and optical density of stock standard solutions and sample with the use of spectrophotometer.	Practical	120 mins	Biochemistry Laboratory	Dr. Farhan
GASTRIC ACID SECRETION By the end of lecture, student will be able to • List the gastric gland, their secretions & functions • Describe physiological arrangement of the gastric (oxyntic) gland • Discuss the mechanism of HCl secretion • Name the factors that affect the gastric acid secretion • List & define the phases of gastric secretion	Lecture	60 mins	Lecture Hall 1	Dr Saba Leeza
PEPTIC ULCER By the end of lecture, student will be able to	Lecture	60 mins	Lecture Hall 1	Dr Qamar Azeez

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• Define "Peptic Ulcer". • Describe Mucosal Barrier Preventing the Digestive Action of Acids & Pepsin. • List the Factor that Result in Development of Peptic Ulcer. • Mention Treatment to Cure a Person from Peptic Ulcer				
PERFORATED PEPTIC ULCER: By the end of lecture, student will be able to • Summarize the basic anatomy and physiology of stomach and duodenum • Describe the pathophysiology of development of peptic ulcer • Enlist the causes of peptic ulcer • Differences between duodenal ulcer and gastric ulcer presentation. • Enumerate the risk factors for perforated peptic ulcer • Explain the clinical presentation of patient with perforated peptic ulcer	Lecture	60 mins	Lecture Hall 1	Dr Abdullah
SURGICAL ANATOMY OF SMALL INTESTINE By the end of lecture, student will be able to	Lecture	60 mins	Lecture Hall 1	Dr Sidra

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• Know the basic anatomy and physiology of small intestine • Know the conditions that may affect small intestine • Discuss the aetiology and pathology of common small intestinal conditions • Describe the principles of investigations of small intestine symptoms				
HISTOLOGY OF LIVER By the end of lecture, student will be able to • Describe the general histology of liver. • What is hepatic lobule, hepatic acinus and portal lobule? • Describe the contents of portal triad? • What is space of Disse and its contents?	Lecture	60 mins	Lecture Hall 1	Dr Inayat
LIVER By the end of lecture, student will be able to • What are the lobes of liver? • Describe the ligamentous attachments of liver? • Describe the peritoneal relations of liver? • Describe the structures present within the hilum of liver?	Lecture	60 mins	Lecture Hall 1	Dr Hina

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• What is the accessory lobe of liver? • What are hepatic segments? • Define hepatic cirrhosis? • What is CLD?				
LIVER By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of liver. • What is hepatic lobule, hepatic acinus and portal lobule. • Describe the contents of portal triad. • What is space of Disse and its contents?	Practical	120 mins	Histology Laboratory	Dr Anila
FUNCTIONS OF LIVER 1 By the end of lecture, student will be able to • List the metabolic functions of liver. • Identify the role of liver in storage of blood. • Discuss the role of liver in plasma protein synthesis.	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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• Summarize the storage functions of liver				
APPLIED SURGERY OF LIVER AND SPLEEN By the end of lecture, student will be able to • Know the anatomy and functions of liver and spleen • Describe the signs of acute and chronic liver diseases • Describe the common pathologies involving spleen • Know the indications of splenectomy and its complications • Discuss the investigations of liver diseases	Lecture	60 mins	Lecture Hall 1	Dr Abis Owais
FUNCTIONS OF LIVER 2 By the end of lecture, student will be able to • List the function of "Liver". • Describe the Role of Liver in; Metabolism, Storage, Synthesis & Degradation of Substances.	Lecture	60 mins	Lecture Hall 1	Dr Saba Abrar
HEPATITIS By the end of lecture, student will be able to • Define Hepatitis • Describe its Etiopathogenesis • Classify its Types & Clinical Features • Describe its Laboratory Tests & Treatment.	Lecture	60 mins	Lecture Hall 1	Dr Rozina

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ESTIMATION OF ALBUMIN : GLOBULIN RATIO II By the end of Practical, student will be able to • Calculate the concentration of stock standard solutions of 'S' test tubes. • Draw the graph to obtain the concentration of Serum Albumin for the sample. • Apply the formula of (Serum Total Proteins – Serum Albumin) to obtain the value of Serum Globulin. • Quote the value of Serum Total Proteins obtained from the previous practical. • Calculate the Albumin: Globuli • Interpret the result of whether the ratio of the working sample is above the range, below the range or within the normal range. • Discuss a few clinical causes of increased and decreased Albumin:Globulin ratio.	Practical	120 mins	Biochemistry Laboratory	Dr. Farhan
LIVER FUNCTION TEST 1 By the end of lecture, student will be able to • Discuss functions of liver such as metabolic functions, secretory functions, excretory functions, hematologic functions, protective functions and storage functions • Outline the interpretation of results of protein, albumin estimation and fibrinogen.	Lecture	60 mins	Lecture Hall 1	Dr Farhan

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• Relate the interpretation of the results of serum cholesterol with the degree of function of liver. • Describe the test prothrombin time and outline the interpretation of the results. Identify the importance of estimation of ammonia to assess the degree of liver damage				
LIVER FUNCTION TEST 2 By the end of lecture, student will be able to • Explain the procedure of oral and IV hippuric acid test. • Identify the importance for assessing detoxification function of liver with hippuric acid test. • Indicate the use of MEGX test for evaluating the capacity of metabolising drugs by the liver. • Recognize BSP retention test for estimating the excretory function of liver. • Explain the procedure of galactose tolerance test. • Identify the importance of this test in assessing liver dysfunction	Lecture	60 mins	Lecture Hall 1	Dr Farhan
GALLBLADDER By the end of lecture, student will be able to • What is gall bladder?	Lecture	60 mins	Lecture Hall 1	Dr Hina

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• Define the relations of gall bladder? • Describe the parts of gall bladder? • Describe the blood supply, innervation and lymphatic drainage of gall bladder? • What is portal triad? • Describe bile duct, its relations and opening?				
HISTOLOGY OF GALL BLADDER By the end of lecture, student will be able to • Describe the general histology of gall bladder? • Explain mucosa, muscularis and serosa of gall bladder?	Lecture	60 mins	Lecture Hall 1	Dr Inayat
GALL BLADDER By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of gall bladder.	Practical	120 mins	Histology Laboratory	Dr Anila

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• Explain mucosa, muscularis and serosa of gall bladder.				
SECRETION OF BILE By the end of lecture, student will be able to • Define bile • List the components of biliary secretion. • Discuss the role of liver & the gall bladder in the formation of bile • Explain emptying of gall bladder • List the functions of bile	Lecture	60 mins	Lecture Hall 1	Dr Ruqqaya
FUNCTIONS OF BILE SALTS 1 By the end of lecture, student will be able to • Define bile salts • Enlist the functions of bile salts • Identify the factors that control the production and circulation of bilirubin • Understand the pathological factors that can lead to jaundice • Analyse how clinical examination and diagnostic testing can identify the cause of jaundice	Lecture	60 mins	Lecture Hall 1	Dr Adnan

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FUNCTIONS OF BILE SALTS 2 By the end of lecture, student will be able to • Define "Bile". • Describe Functional Arrangement of Hepatocytes Related to Bile Production. • List Stages of Biliary Secretions. • Explain Formation & Functions of Bile Salts. • Describe Enterohepatic Circulation of Bile Salts with its Importance.	Lecture	60 mins	Lecture Hall 1	Dr Qamar
SURGICAL ANATOMY OF GALLBLADDER, BILE DUCTS AND PANCREAS By the end of lecture, student will be able to • Know the surgical anatomy and physiology of gallbladder, bile ducts and pancres • Describe the pathophysiology of gallstones • Know the unusual disorders of biliary tree • Discuss the investigations for gallbladder, biliary tract diseases and pancreas • Discuss the assessment, and diagnosis of pancreatitis	Lecture	60 mins	Lecture Hall 1	Dr Danish

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SPLEEN AND PANCREAS By the end of lecture, student will be able to • What are the relations of spleen? • Describe the attachments of spleen? • Describe the blood supply, innervation and lymphatic drainage of spleen? • What are the relations of pancreas and its parts? • Describe the borders of pancreas with their relations? • Describe the main pancreatic and accessory pancreatic ducts with their openings in duodenum?	Lecture	60 mins	Lecture Hall 1	Dr Hina
PANCREATIC SECRETION By the end of lecture, student will be able to • Define “Pancreas”. • List the Types of Pancreatic Secretions. • Categorize Pancreatic Exocrine Secretion with their Functions. • List Stimuli & Phases of Pancreatic Exocrine Secretions. • Explain the Mechanism of Exocrine Secretions of Pancreas.	Lecture	60 mins	Lecture Hall 1	Dr Adnan
DERIVATIVES OF HINDGUT By the end of lecture, student will be able to	Lecture	60 mins	Lecture Hall 1	Dr Tayyaba

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• Describe the derivatives of hindgut? • Describe the formation of urorectal septum? • Describe rectovaginal fistula? • What is rectoanal fistula? • Describe congenital megacolon?				
LARGE INTESTINE I By the end of lecture, student will be able to • Describe the parts of large intestine and its peritoneal relations? • What is appendices epiploici, tenia coli? • Describe ascending colon relations? • What are the relations of transverse colon? • What is transverse mesocolon and greater omentum?	Lecture	60 mins	Lecture Hall 1	Dr Anila
LARGE INTESTINE II By the end of lecture, student will be able to • Describe the relations of descending colon? • Describe the relations of sigmoid colon? • What are the recesses of sigmoid colon? • What is sigmoid mesocolon?	Lecture	60 mins	Lecture Hall 1	Dr Hina

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MOVEMENTS OF COLON 1 By the end of lecture, student will be able to • Define Colon (Large Intestine). • List the Functions of Large Intestine. • Explain Arrangement of Smooth Muscles with Movements in Colon. • Categorize & Compare Colonic Movements with Small Intestinal Movements. • Mention Abnormalities associated with Colonic Movements	Lecture	60 mins	Lecture Hall 1	Dr Qamar Azeez
LARGE INTESTINE III By the end of lecture, student will be able to • What is the blood supply, innervation and lymphatic drainage of large intestine? • What is intussusception and volvulus? • Describe diverticulitis?	Lecture	60 mins	Lecture Hall 1	Dr Hina
HISTOLOGY OF LARGE INTESTINE By the end of lecture, student will be able to • Describe the general histology of large intestine? • Explain mucosa, submucosa, muscularis and serosa of large intestine? • Describe the cells of large intestine?	Lecture	60 mins	Lecture Hall 1	Dr Inayat

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LARGE INTESTINE By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of large intestine. • Explain mucosa, submucosa, muscularis and serosa of large intestine. • Describe the cells of large intestine.	Practical	120 mins	Histology Laboratory	Dr Anila
SURGICAL ANATOMY OF LARGE INTESTINE By the end of lecture, student will be able to • Know the basic anatomy and physiology of large intestine • Know the conditions that may affect the large intestine • Discuss the aetiology and pathology of common large intestinal conditions • Describe the principles of investigation of large intestinal symptoms	Lecture	60 mins	Lecture Hall 1	Dr Abdullah

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ACHALASIA AND MEGA COLON By the end of lecture, student will be able to • List the esophageal motility disorders • Define the achalasia. • Describe the esophago-gastric junction. • Describe the pathology, clinical presentation & diagnosis of achalasia. • Describe the Megacolon (Hirschsprung's Disease)	Lecture	60 mins	Lecture Hall 1	Dr M Ali
INTRODUCTION TO MICRONUTRIENTS By the end of lecture, student will be able to • Define micronutrients • Differentiate between macronutrients and micronutrients • Discuss the types of micronutrients	Lecture	60 mins	Lecture Hall 1	Dr Nazia
VOMITING AND DIARRHEA 1 By the end of lecture, student will be able to • Define the nausea , retching and vomiting • Enlist the causes of vomiting. • Describe the vomiting center. • Describe the vomiting reflex. • Describe the antiperistalsis.	Lecture	60 mins	Lecture Hall 1	Dr M Ali

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• Describe the vomiting act • Define diarrhea • Describe the classification of diarrhea • Describe the enteritis, ulcerative colitis & psychogenic diarrhea				
PROTEIN CALORIE MALNUTRITION: By the end of lecture, student will be able to • Outline the role of carbohydrates in diet • Identify the requirement of carbohydrates in diet.. • Outline the role of lipids in diet Define protein calorie malnutrition • Differentiate in a tabular form marasmus and kwashiorkor.	Lecture	60 mins	Lecture Hall 1	Dr Iffat
ACUTE DIARRHEA & ITS MANAGEMENT By the end of lecture, student will be able to • Diarrhea and it's classification • To apprehend different causative agents of Diarrhea • To describe the etiology & pathology of Diarrhea • To recognize the clinical features & complications of Diarrhea • To make an accurate & clear cut diagnosis	Lecture	60 mins	Lecture Hall 1	Dr Madiha

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• To make proper evaluation of dehydration • Explain adequate treatment & proper preventive measures				
VOMITING AND DIARRHEA 2 By the end of lecture, student will be able to • Describe the antiperistalsis. • Describe the vomiting act • Define diarrhea • Describe the classification of diarrhea • Describe the enteritis, ulcerative colitis & psychogenic diarrhea	Lecture	90 mins	Lecture Hall 1	Dr Qamar Azeez
Iodine deficiency By the end of lecture, student will be able to • Discuss Iodine deficiency disorder and its etiology. • Explain the prevention and control of Iodine deficiency disorder	Lecture	60 mins	Lecture Hall 1	Dr Nazia
OVERVIEW OF PHARMACOLOGY OF EMESIS: By the end of lecture, student will be able to • Recall the physiology of emesis. • Discuss the pathophysiology of emesis.	Lecture	60 mins	Lecture Hall 1	Dr Sehrish

• Explain the mechanistic pharmacology of emesis.				
MALABSORPTION By the end of lecture, student will be able to • Define Malabsorption • Describe its Etiopathogenesis • Describe its Clinical Features	Lecture	60 mins	Lecture Hall 1	Dr M Rizwan
MALABSORPTION SYNDROME By the end of lecture, student will be able to • Explain the disorder with its pathogenesis • List out the disease causing malabsorption syndrome • Summarise clinical features of disorder • Identify the laboratory test as well as radiological test required to diagnose the disorder • Discuss treatment in accordance to diseases causing the syndrome	Lecture	60 mins	Lecture Hall 1	Dr Masooda
OVERVIEW OF PHARMACOLOGY OF DIARRHEA: By the end of lecture, student will be able to • Recall the physiology of diarrhea. • Discuss the pathophysiology of diarrhea.	Lecture	60 mins	Lecture Hall 1	Dr Sehrish

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• Explain the mechanistic pharmacology of diarrhea.				
INFLAMMATORY BOWEL DISEASES By the end of lecture, student will be able to • Define Ulcerative Colitis & Crohn's Disease • Describe their Etiopathogenesis • Describe their Morphology • Compare their Clinical Features & Complications • Describe their treatment options	Lecture	60 mins	Lecture Hall 1	Dr Munazza
SURGICAL ANATOMY OF SMALL INTESTINE By the end of lecture, student will be able to • Know the basic anatomy and physiology of small intestine • Know the conditions that may affect small intestine • Discuss the aetiology and pathology of common small intestinal conditions • Describe the principles of investigations of small intestine symptoms	Lecture	60 mins	Lecture Hall 1	Dr Sidra
Vitamin A & C Deficiency By the end of lecture, student will be able to • List the sources and functions of Vitamin A & C	Lecture	60 mins	Lecture Hall 1	Dr Nazia

• Explain the causes and risk factors of Vitamin A & C Deficiency • Describe the signs and symptoms of Vitamin A & C Deficiency • Describe the prevention strategies of Vitamin A & C Deficiency				
SURGICAL ANATOMY OF LARGE INTESTINE By the end of lecture, student will be able to • Know the basic anatomy and physiology of large intestine • Know the conditions that may affect the large intestine • Discuss the aetiology and pathology of common large intestinal conditions • Describe the principles of investigation of large intestinal symptoms	Lecture	60 mins	Lecture Hall 1	Dr Abdul Ghaffar
AETIOLOGY OF ACUTE APPENDICITIS By the end of lecture, student will be able to • Describe the aetiology and surgical anatomy of acute appendicitis • Discuss the clinical signs of appendicitis	Lecture	60 mins	Lecture Hall 1	Dr Danish

• Know the differential diagnosis of appendicitis • Know the investigations in suspected cases of acute appendicitis				
RECTUM By the end of lecture, student will be able to • What are the peritoneal relations of rectum? • What is the location of sigmoid rectal junction? • Describe the internal structure of rectum? • Describe the blood supply, innervation and lymphatic drainage of rectum? • What is rectal proplapse?	Lecture	60 mins	Lecture Hall 1	Dr Aneela
SURGICAL ANATOMY OF RECTUM By the end of lecture, student will be able to • Know the anatomy of the rectum and its relationship to surgical diseases • Discuss the pathology and clinical presentation of the diseases that affect the rectum • Describe the investigations of choice in rectal diseases • Know the differential diagnosis of rectal diseases.	Lecture	60 mins	Lecture Hall 1	Dr Danish

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ANAL CANAL By the end of lecture, student will be able to • What are the peritoneal relations of anal canal? • Describe the dentate/ pectinate line? • Describe the differences in the anal canal above and anal canal below the dentate line? • Describe the blood supply, innervation and lymphatic drainage of anal canal? • What are hemorrhoids? • What is anal fissure and abscess?	Lecture	60 mins	Lecture Hall 1	Dr Hina
ANUS By the end of Practical, student will be able to • Identify and differentiate the slide under microscope • Develop proficiency in using a light microscope to observe tissue samples at various magnifications and focus levels. • Describe the general histology of anus • Discuss the epithelium of anal canal • Describe the transition of epithelium at rectoanal junction	Practical	120 mins	Histology Laboratory	Dr Anila

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DEFECATION By the end of lecture, student will be able to • Define "Defecation". • List Physiologic Arrangement that Favors Defecation Reflex. • List & Explain the Levels of Integration of Defecation Reflex. • Explain the Mechanism of Defecation. • List Factors that Affects Large Bowel Activity.	Lecture	60 mins	Lecture Hall 1	Dr Qamar Azeez
SURGICAL ASPECTS OF ANORECTAL DISEASES By the end of lecture, student will be able to • To describe the anatomy of the anus and anal canal and their relationship to surgical disease and its treatment • Explain the pathology, clinical presentation of diseases that affect the anus and anal canal • Enlist the common perianal diseases • Enumerate causes of painful and painless bleeding per rectum • Define and Classify fistula-in-ano • Define fissure and explain its clinical presentation • Define and Classify Perianal Abscess and its clinical presentation	Lecture	60 mins	Lecture Hall 1	Dr Danish

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• Define and classify haemorrhoids. • Enlist the risk factors for haemorrhoids				
PERITONEUM By the end of lecture, student will be able to • Define peritoneum? • What is parietal and visceral peritoneum? • Describe the terms intraperitoneal, extraperitoneal, retroperitoneal and subperitoneal visceras with examples? • Describe the modifications of peritoneum? • What is greater and lesser sac? • Define the lesser sac and describe its boundaries? • What is epiploic foramen and describe its boundaries?Describe the mesentry in detail? • Describe the ligaments of stomach? • Describe the ligaments of liver? • Describe the ligaments of spleen? • What is peritoneal adhesions? • Define ascites?	Lecture	60 mins	Lecture Hall 1	Dr Hina
RECTUS SHEET, INGUINAL CANAL: By the end of lecture, student will be able to • Define the rectus sheet.	Lecture	60 mins	Lecture Hall 1	Dr Hina

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• Describe the composition and contents of rectus sheet? • Explain inguinal canal. • Describe the boundaries and contents of inguinal canal?				
RECTUS SHEET, INGUINAL CANAL AND HERNIAS II By the end of lecture, student will be able to • Define inguinal hernia? • Classify of inguinal hernias? • Differentiate the direct and indirect inguinal hernias in detail?	Lecture	60 mins	Lecture Hall 1	Dr Hina
PERCEPTION By the end of Lecture, student will be able to • Define perception • What factors affect perception? • How perception effect on behavior	Lecture	60 mins	Lecture Hall 1	Dr Azra Shaheen
THINKING AND COGNITION By the end of Lecture, student will be able to • Define thinking; describe its types and theories • What is cognition and level of cognition • How to improve concentration	Lecture	60 mins	Lecture Hall 1	Dr Azra Shaheen

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REFERENCE BOOKS AND OTHER READING RESOURCES:

Gross Anatomy	Snell's anatomy by regions 10th edition BD Chaurasia's **Handbook of GENERAL ANATOMY** **Netter Atlas of Human Anatomy**
Embryology	**Langman's Embryology**
Histology	**Laiq Hussain Histology**
Physiology	**Guyton and Hall**. Textbook of Medical Physiology, 13th Edition. **Ganong's** Review of Medical Physiology, 24th Edition.
Biochemistry	**Lippincot Illustrated Review Biochemistry** **Textbook of Medical Biochemistry** M.N.Chatterjee and Rana shinde
Pathology	Robin`s Basic Pathology-10th Edition
Pharmacology	**Essential:** **Bertram G. Katzung.** Basic and Clinical Pharmacology, 14th Edition. 2017. **Katzung and Trevor's pharmacology** Examination and Board Review 11th Edition 2015.

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	Recommended: **Lippincott's illustrated review of Pharmacology**. 6th Edition. 2015.
Islamiat	• Hameed ullah Muhammad, "Emergence of Islam" , IRI, Islamabad, "Muslim Conduct of State" and "Introduction to Islam". • Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan. • Abdul Qayyum Natiq, "Sirat-E-Mustaqim. • Farkhanda Noor Muhammad, "Islamiat". • Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" Allama Iqbal Open University, Islamabad (2001).
Community Medicine	Ilyas M, Public Health and Community Medicine, 7th Edition, Karachi, Pakistan, Time Publisher, 2007. Maxcy-Rosenau-Last, public Health and Preventive Medicine, 13th Edition, USA, Prentice-Hall International Inc, 1992. K.Park, Preventive and Social Medicine, 20th Edition, Jabalpur (India), M/s Banarsidas Bhanot, Publisher, 2009.
Medicine	Davidson`s Principles and Practice of Medicine-22nd Edition
Clinical Examination	Talley and O'Connor's Clinical Examination-6th Edition
Surgery	Bailey And Love Short Practice Of Surgery, 27th Edition

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	Snell's anatomy by regions 10th edition
Research	Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas. Biomedical Research Proposal Writing- Syed Sharaf Ali Shah, Zarfshan Tahir, Rozina Karmaliani. Epidemiology - Leon Gordis; Fifth Edition.
PEARLs	https://www.mededportal.org/publication/10610/
PAEDS	Nelson Textbook of Pediatric 21st edition. Textbook of Paediatrics (PPA) Fifth edition. Basis of Pediatrics (Pervez Akbar Khan) 10th edition

ASSESSMENT METHODS:

THEORY:

❖ **Essay Questions- Short Essay Questions (SEQs)** are used to assess objectives covered in each module.

- 6 SEQs are given (no choice).
- Time duration 90 minutes.
- Students write their answer in an answer sheet.

❖ **MCQs (Multiple Choice Questions**) are used to assess objectives covered in each module.

- A BCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.

- Students mark their responses on specified computer-based/OMR sheet designed for BMC, BMU.

❖ **OSPE/OSCE: Objective Structured Practical/Clinical Examination:**

- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 12-25 stations.
- Each station may assess a variety of clinical tasks; these tasks may include history taking, physical examination, skills and application of skills and knowledge.
- Stations are observed, unobserved, interactive and rest stations.
- Observed and interactive stations will be assessed by internal or external examiners.
- Unobserved will be static stations in which there may be an X-ray, Labs reports, pictures, clinical scenarios with related questions for students to answer.
- Rest station is a station where there is no task given and in this time student can organize his/her thoughts.

INTERNAL EVALUATION:

- Students will be assessed to determine achievement of module objectives through the following: o **Module Examination:** will be scheduled on completion of each module. The method of examination comprises theory exam which includes BCQs and OSPE (Objective Structured Practical Examination).

➢ **Graded Assessment of students by Individual Department**: Quiz, viva, practical, assignment, small group activities such as CBL, online assessment, ward activities, examination, and Practical journals.

➢ Marks of both modular examination and graded assessment will constitute 20% weightage which will be added to Annual Examination.

FORMATIVE ASSESSMENT:

- Individual department may hold quiz or short answer questions to help students assess their own learning.

- The marks obtained are not included in the internal evaluation.

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DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-11:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 7-10-24	**RESPIRATORY MODULE EXAM**							
TUESDAY 8-10-2024	**ANATOMY** Anterolateral Abdominal Wall **DR HINA**	**ANATOMY** Posterior Abdominal Wall **DR ANEELA**		**EMBRYO** Formation of Gut Tube **DR TAYYABA**	**SDL**		**EMBRYO** Development of Esophagus **DR TAYYABA**	**ANATOMY** Oral Cavity and Esophagus **DR ANEELA**
WEDNESDAY 9-10-2024	**B. SCIENCES** **MS AZRA SHAHEEN**	**HISTO** Histology of Oral Cavity & Esophagus **DR INAYAT**		**ANATOMY** Development of Stomach Dr. Tayyaba	**SDL**		**ANATOMY** **Stomach** **DR. HINA**	**PHYSIO** Motor Functions Of Stomach 1 **(DR. SABA LEEZA)**
THURSDAY 10-10-2024	**HISTO** HISTOLOGY OF STOMACH **DR INAYAT**	**PHYSIO** Motor Functions Of Stomach 2 **(DR. ADNAN)**		**BIOCHEM** Digestion and Absorption **DR. FARHAN**	**SDL**		**BIOCHEM** Glycolysis (Carbohydrate Metabolism) **DR IFFAT**	**PHYSIO** Gut Wall- 1 **(DR. SABA LEEZA)**
FRIDAY 11-10-2024	**BIOCHEM** GLUCONEOGENESIS **DR IFFAT**	**PEARLS**		**BIOCHEM** Krebs Cycle (Carbohydrate Metabolism)	**ISLAMIAT** **MS UZMA**		SDL	**PHYSIO** Gut Wall-2 **(DR. SABA LEEZA)**

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				DR IFFAT				

GIT MODULE WEEK 1

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GIT MODULE WEEK 2

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DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 14-10-2024	**PHYSIO** Enteric Nervous System 2 **M ALI**	**BIO** Glycogenesis Glycogen Metabolism-1 **DR KAHKASHAN**		**PRACTICAL** **PHYSIO: ACTIVITY** **DR SABA LEEZA** **BIO :** ESTIMATION OF TOTAL PROTEIN Dr Farhan **ANA**: HISTO of esophagus **DR ANEELA**			**BIO** Glycogenolysis **DR KAHKASHAN**	**PHYSIO** Autonomic Control Of GIT **DR ADNAN**
TUESDAY 15-10-2024	**BIO** Digestion Of Lipids In Stomach DR FARHAN	**SDL**		**PRACTICAL** **PHYSIO: ACTIVITY** **DR SABA LEEZA** **BIO :** ESTIMATION OF TOTAL PROTEIN Dr Farhan **ANA**: HISTO of esophagus **DR ANEELA**			**PHYSIO** G.I REFLEXES 1 **DR M ALI**	**PATHO** **Gastritis** **DR MAEESA**
WEDNESDAY 16-10-2024	**BIO** GASTRIC FUNCTION TESTS-1 **DR IFFAT**	**MEDICINE** GASTROESOPHAGEAL REFLUX DISEASE		**PRACTICAL** **PHYSIO: ACTIVITY** **DR M ALI** **BIO :** ESTIMATION OF TOTAL PROTEIN Dr Farhan **ANA**: HISTO of esophagus **DR ANEELA**			**SDL**	**FORENSIC MEDICINE** General Toxicology **DR JAN E ALAM**
THURSDAY 17-10-2024	**ANATOMY** DEVELOPMENT OF DUODENUM **DR TAYYABA**	**SDL**		**ANATOMY** DEVELOPMENT OF MIDGUT **DR TAYYABA**	**BIO** GASTRIC FUNCTION TESTS- 2 **Dr Iffat**		**PHYSIO** G.I REFLEXES 2 **DR ADNAN**	**ANATOMY** DUODENUM **DR HINA**
FRIDAY 18-10-2024	**SURGERY** ESOPHAGUS, STOMACH AND DUODENUM **DR ABDULLAH**	**BIOETHICS**		**ANATOMY** HISTOLOGY OF SMALL INTESTINE **DR INAYAT**	**ISLAMIAT** **Ms Uzma**		SDL	**ANATOMY** JEJUNUM AND ILEUM **DR ANEELA**

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DAYS	8:30-9:30	9:30-10:30	10:30 - 11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 21-10-2024	**BIO** Digestion & Absorption Of Carbohydrates In Small Intestine **Dr Farhan**	**SDL**		**PRACTICAL** **PHYSIO: Activity Dr Saba Leeza** **BIO :** Estimation of total protein graph /calculation **Dr Farhan** **ANA**: Histo of stomach **Dr Aneela**			**PATHO** Peptic Ulcer Disease **Dr Muhammad Khan**	**PHYSIO** Movements Of Small Intestine I **Dr M Ali**
TUESDAY 22-10-2024	**PHYSIO** Movements Of Small Intestine II **Dr Adnan**	**MEDICINE** Peptic Ulcer Disease **Dr Masooda**		**PRACTICAL** **PHYSIO: Activity Dr Saba Leeza** **BIO :** Estimation of total protein graph /calculation **Dr Farhan** **ANA**: Histo of stomach **Dr Aneela**			**SDL** **(1;30-2:30)**	**CBL** **(2;30-4:30)**
WEDNESDAY 23-10-2024	**ANATOMY** Development Of Liver And Gall Bladder **Dr TAYYABA**	**SDL**		**PRACTICAL** **PHYSIO: Activity Dr Saba Leeza** **BIO :** Estimation of total protein graph /calculation **Dr Farhan** **ANA** : Histo of stomach **Dr Hina**			**ANATOMY** **Formative Assessment** **Dr Aneela/dr Hina**	**BIO** Digestion And Absorption Of Lipids In Small Intestine **Dr Farhan**
THURSDAY 24-10-2024	**ANATOMY** Large Blood Vessels Of GIT Celiac Trunk **Dr Aneela**	**SURGERY** Small Intestine **DR SIDRA**		**RESEARCH** **Ms Maria**	**SDL**		**BIO** **Formative Assessment** **Dr Iffat**	**ANATOMY** Inferior Vena Cava & Portal Vein **Dr Hina**
FRIDAY 25-10-2024	**BIO** Digestion And Absorption Of Proteins **Dr Farhan**	**PEARLS**		**SDL**	**ISLAMIAT** **MS Uzma**		**PHYSIO** **Formative Assessment** **Dr M Ali**	**ANATOMY** LRC **Dr Aneela**

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DAYS	8:30-9:30	9:30-10:30	10:30 - 11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 28-10-2024	**PHYSIO** Saliva DR. M.ALI	**SDL**		**PRACTICAL** **PHYSIO: ACTIVITY DR. SABA LEEZA** **BIO :** Estimation of A/G ratio graph/calculation **Dr Farhan** **ANA**: DUODENUM **Dr Aneela**			**BIOETHICS**	**PHYSIO** Deglutition **DR. ADNAN**
TUESDAY 29-10-2024	**PHYSIO** Gastric secretion **DR. SABA LEEZA**	**PHYSIO** Peptic ulcer **DR. Qamer Aziz**		**PRACTICAL** **PHYSIO: ACTIVITY' DR. SABA LEEZA** **BIO** Estimation of A/G ratio graph/calculation **Dr Farhan** **ANA**: : DUODENUM **Dr Aneela**			**SURGERY** Gastritis & peptic ulcer disease **Dr Abdullah**	**ANATOMY** **LRC** **Dr Hina**
WEDNESDAY 30-10-2024	**BIO** FORMATIVE ASSESSMENT **Dr Iffat**	**PEARLS** **DR. TALAL**		**PRACTICAL** **PHYSIO: ACTIVITY, DR. M.ALI** **BIO:** Estimation of A/G ratio graph/calculation **Dr Farhan** **ANA**: DUODENUM **Dr Hina**			**SURGERY** Surgical Anatomy And Physiology Of Small Intestine **Dr.SIDRA**	**PHYSIO** **QUIZ** **DR. M.ALI**
THURSDAY 31-10-2024	**SURGERY** Infective Diseases Of Small Intestine: **Dr.SIDRA**	**RESEARCH** **Ms Maria**		**ANATOMY** Large Blood Vessels Of GIT Celiac Trunk **Dr Aneela**	**SDL**		**ANATOMY** Histology Of Liver **DR INAYAT**	**ANATOMY** Liver **Dr Hina**
FRIDAY 1-11-2024	**DIABETIC WALK**			**PHYSIO** Functions Of Liver 1 **DR ADNAN**	**ISLAMIAT** **MS Uzma**		**SURGERY** Applied Surgical Anatomy Of Liver **Dr ABID OWAIS**	**PHYSIO** Functions Of Liver 2 **DR. SABA ABRAR**

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GIT MODULE WEEK 5

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY **4-11-2024**	**PATHO** Hepatitis **Dr Rozina**	**SDL**		**PRACTICAL** **PHYSIO: ACTIVITY DR M.Ali** **BIO :** Estimation of A/G ratio **Dr Farhan** **ANA**: **LIVER Dr Aneela**			**SURGERY** **Liver Trauma** **DR.ABID OWAIS**	**BIO** Liver Function Test I **Dr Farhan**
TUESDAY **5-11-2024**	**BIO** Liver Function Test II **Dr Farhan**	**ANATOMY** Development of gall bladder & Pancreas **DR TAYYABA**		**PRACTICAL** **PHYSIO ACTIVITY Dr Saba Leeza** **BIO:** Estimation of A/G ratio **Dr Farhan** **ANA**: **LIVER Dr Aneela**			**SDL**	**ANATOMY** Gall bladder **Dr Hina**
WEDNESDAY **6-11-2024**	**ANATOMY** **Model** **LRC** **Dr Hina/Dr Aneela**	**B.SCIENCES** **DR AZRA**		**PRACTICAL** **PHYSIO: ACTIVITY Dr Saba Leeza BIO:** Estimation of A/G ratio **Dr Farhan ANA**: **LIVER Dr Hina**			**SDL**	**PHYSIO** Secretion Of Bile **Dr. Ruqaya**
THURSDAY **7-11-2024**	**PHYSIO** Functions Of Bile Salts 2 **DR ADNAN**	**PHYSIO** Functions Of Bile Salts 1 **Dr. Qamer Aziz**		**SDL**	**SURGERY** Surgical Anatomy Of Gallbladder **DR DANISH**		**BIO** **Formative Assessment** **Dr Iffat**	**ANATOMY** pancreas **Dr HINA**

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FRIDAY 8-11-2024	**ANATOMY** Histology of gall bladder &Pancreas **DR INAYAT**	**SURGERY** Surgical Anatomy Of Pancreas & Its Investigations **Dr. Abdullah**		**SDL**	**ISLAMIAT MS Uzma**		**SURGERY** Features And Diagnosis Of Pancreatitis **DR. DANISH**	**PHYSIO** Pancreatic Secretion **DR ADNAN**

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GIT MODULE WEEK 6

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 11--11-24	**SURGERY** Congenital Abnormalities And Injuries To Pancreas **DR. BASHEER AHMED**	**ANATOMY** Derivatives Of Hindgut **DR. TAYYABA**		**PRACTICAL PHYSIO:ACTIVITY Dr Saba Leeza BIO : Mcqs discussion DR IFFAT ANA: Histology of Gall bladder& Pancreas DR.ANEELA**			**SDL**	**ANATOMY** Large Intestine I **DR ANEELA**
TUESDAY 12-11-24	**SDL**	**CBL (9:00-10:30) HEPATITIS**		**PRACTICAL PHYSIO:ACTIVITY Dr Saba Leeza BIO : Mcqs discussion DR IFFAT ANA: Histology of Gall bladder& Pancreas DR.ANEELA**			**ANATOMY** Large Intestine II **DR HINA**	**PHYSIO** Movements of colon I **Dr. Qamer Aziz**
WEDNESDAY 13-11-24	**ANATOMY** Large Intestine III **DR HINA**	**ANATOMY** Histology Of Large Intestine **DR INAYAT**		**PRACTICAL PHYSIO:ACTIVITY Dr Saba Leeza BIO : Mcqs discussion DR IFFAT ANA: Histology of Gall bladder& Pancreas DR HINA**			**SDL**	**PHYSIO** Movements of colon II **Dr. Saba Abrar**
	SURGERY Basic Anatomy And	**PEARLS**		**BIO Introduction To**	**PHYSIO** Achalasia And Mega		**SDL**	**BIO** FORMATIVE

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THURSDAY 14-11-24	Principles Of Investigation Of Large Intestinal Symptoms **DR. ABDULLAH**	**DR SAIMA QAMER**		**Nutrition DR IFFAT**	Colon I **Dr. M. Ali**			ASSESSMENT **Dr Farhan**
FRIDAY 15-11-24	**COMMUNITY MEDICINE** Introduction To Micronutrients **DR NAZIA JAMEEL**	**PHYSIO** Achalasia And Mega Colon II **Activity** Dr. Saba Abrar		**ANATOMY** FORMATIVE ASSESSMENT **DR ANEELA**	**ISLAMIAT** **MS Uzma**		**SDL**	**PHYSIO** VOMITING & DIARRHEA I **Dr. M. Ali**

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GIT MODULE WEEK 7

DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 18-11-24	**BIO** Protein Calorie Malnutrition **Dr IFFAT**	**PAEDS** ACUTE DIARRHEA **Dr Madiha Abid**		**PRACTICAL PHYSIO: ACTIVITY Dr Saba Leeza BIO :Discussion DR IFFAT ANA: Histology of large intestine DR.ANEELA**			**SDL**	**PHYSIO** VOMITING & DIARRHEA II **Prof Dr.Qamer Aziz**

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TUESDAY 19-11-24	**COMMUNITY MEDICINE** Iodine Deficiency **Dr Nazia Jameel**	**PHARMA** Overview of pharmacology of emesis **Dr Sehrish**		**PRACTICAL PHYSIO: ACTIVITY Dr Saba Leeza BIO : Discussion DR IFFAT ANA: Histology of large intestine DR.ANEELA**			**SDL**	**PATHO** Malabsorption **Dr Muhammad Rizwan**
WEDNESDAY 20-11-24	**MEDICINE** Malabsorption Syndrome **Dr Masooda**	**PHARMA** Overview of pharmacology of diarrhea **Dr Sehrish/Dr Hina Masood**		**PRACTICAL PHYSIO:ACTIVITY Dr Saba Leeza BIO : Discussion DR IFFAT ANA: Histology of large intestine DR HINA**			**SDL**	**ANATOMY** Large Blood Vessels Of GIT **DR HINA**
THURSDAY 21-11-24	**PATHO** Inflammatory Bowel Diseases **Dr Munazza Rashid**	**SURGERY** Etiology And Investigations Of Small And Large Bowel Obstruction **Dr. Sidra**		**COMMUNITY MEDICINE** Vitamin A & C Deficiency **Dr Nazia Jameel**	**ANATOMY** LRC EMBRYO PRESENTATION **DR ANEELA**		**SDL**	**ANATOMY** FORMATIVE ASSESSMENT **DR HINA**
FRIDAY 22-11-24	**SURGERY** Aetiology And Pathology Of Common Large Intestinal Conditions **DR. ABDUL GHAFFAR**	**SDL**		**SURGERY** Surgical Anatomy And Aetiology Of Acute Appendicitis **DR.DANISH**	**ISLAMIAT MS Uzma**		**ANATOMY Rectum DR ANEELA**	**PHYSIO** FORMATIVE ASSESSMENT **Dr Saba Leeza**

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DAYS	8:30-9:30	9:30-10:30	10:30-11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-3:00	3:00-4:30
MONDAY 25-11-24	**SURGERY** Clinical Signs And Differential Diagnosis Of Acute Appendicitis **DR.DANISH**	**SDL**		**PRACTICAL PHYSIO:** **ACTIVITY** **Dr Saba Leeza** **BIO :ACTIVITY DR FARHAN** **ANA**:**Histology of Anus DR.ANEELA**			**SURGERY** The Rectum **DR. DANISH**	**ANATOMY** Anal Canal **Dr.Hina**
TUESDAY 26-11-24	**PHYSIO** Defecation I **Dr.Saba Abrar**	**SURGERY** Surgical Aspects Of Anal Diseases **DR.DANISH**		**PRACTICAL PHYSIO:** **ACTIVITY** **Dr Saba Leeza** **BIO : ACTIVITY DR FARHAN** **ANA**: **Histology of Anus DR.ANEELA**			**SDL**	**Embryo Presentation** **Dr Aneela**
WEDNESDAY 27-11-24	**ANATOMY** Peritoneum **Dr.Hina**	**PHYSIO** Defecation II **Prof Dr. Qamer Aziz**		**PRACTICAL PHYSIO:** **ACTIVITY** **Dr Saba Leeza** **BIO : ACTIVITY DR FARHAN** **ANA**: **Histology of Anus DR HINA**			**SDL**	**ANATOMY** Rectus Sheet,Inguinal Canal **Dr.Aneela**
THURSDAY 28-11-24	**PHYSIO** Formative Assessment **Dr.Sobia**	**BIO ETHICS**		**ANATOMY** **LRC** **Dr. Hina / Dr.Aneela**			**SDL**	**ANATOMY** Rectus Sheet,Inguinal Canal With Hernias **Dr.Hina**
FRIDAY 29-11-24	**BIO** **Review class** **Dr.Iffat**			**SDL**	**ISLAMIAT** **MS Uzma**		**ANATOMY** **Review class** **Dr. Hina/Dr.Aneela**	**PHYSIO** **Review class** **Dr.Sobia**

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GIT MODULE EXAM

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MONDAY 2-12-24	GIT MODULE EXAM							

More than 75% attendance is needed to sit for the modular and final