BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

THE GASTROINTESTINAL TRACT (GIT)

MODULE GUIDE - 2022

FIRST PROFESSIONAL M.B.B.S

BAQAI MEDICAL COLLEGE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

BAQAI MEDICAL UNIVERSITY

51-Deh Tor, Gadap Road, Super Highway. P.O Box: 2407, Karachi-75340, Pakistan. Phone (092-21)34410-293 to 298, 34410-427 to 430.
Fax: (092-21)34410-317, 34410-43. Email: info@baqai.edu.pk, Web: www.baqai.edu.pk/

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**

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

PW	**Practical Work**
SDL	**Self Directed Learning**
SGD / SGT	**Small Group Discussion / Small Group Teaching**
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

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

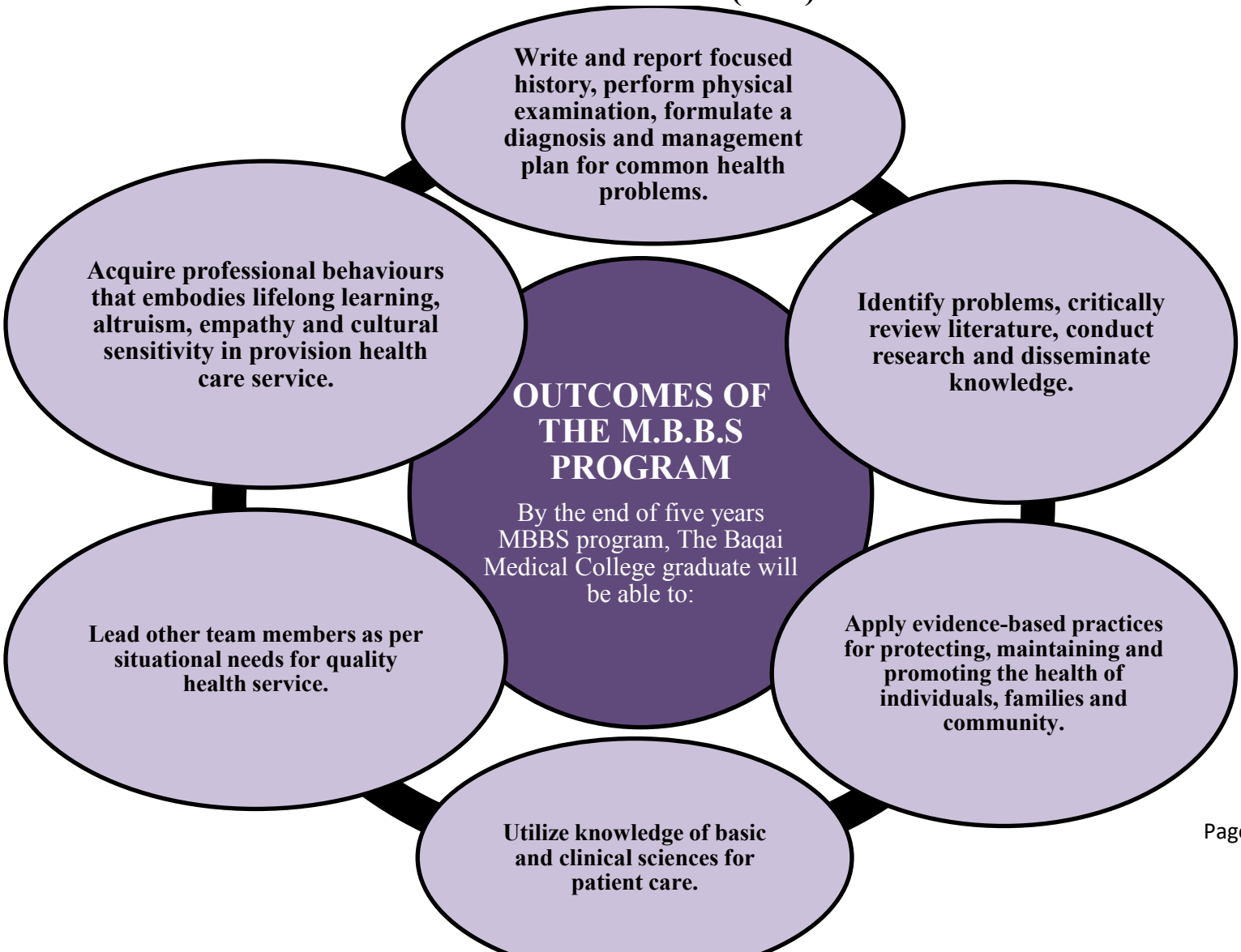
.

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.

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022



BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

MODULAR PLANNING COMMITTEE

Prof. Dr. Jameel Ahmed (Medicine)	Chairman Curriculum Committee
Prof. Dr. Syed Inayat Ali (Anatomy)	Chairman Modular Committee
Dr. Syed Adnan Ahmed (Physiology)	Co-Chairman Modular Committee
Dr. Benish Zafar (Biochemistry)	Secretary Modular Committee
Prof. Dr. Nazia Jameel (CommunityMedicine)	Member
Dr. Maeesa Sajeel (Pathology)	Member
Dr. Hina Masood (Pharmacology)	Member
Dr. Rafay Ahmed Siddiqui (Forensic Medicine)	Member
Dr. Sidra (Surgery)	Member
Dr. Masooda (Medicine)	Member
Department of Medical Education	All Members

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

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.

The students go to the hospitals to observe the signs and symptoms of some of very common illnesses related to GIT & Liver including vomiting, chronic diarrhea, constipation, peptic ulcers, enteric fever, malnutrition, jaundice etc.

This module will provide students opportunities to understand the

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

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

PLACEMENT OF GIT MODULE:
Sixth

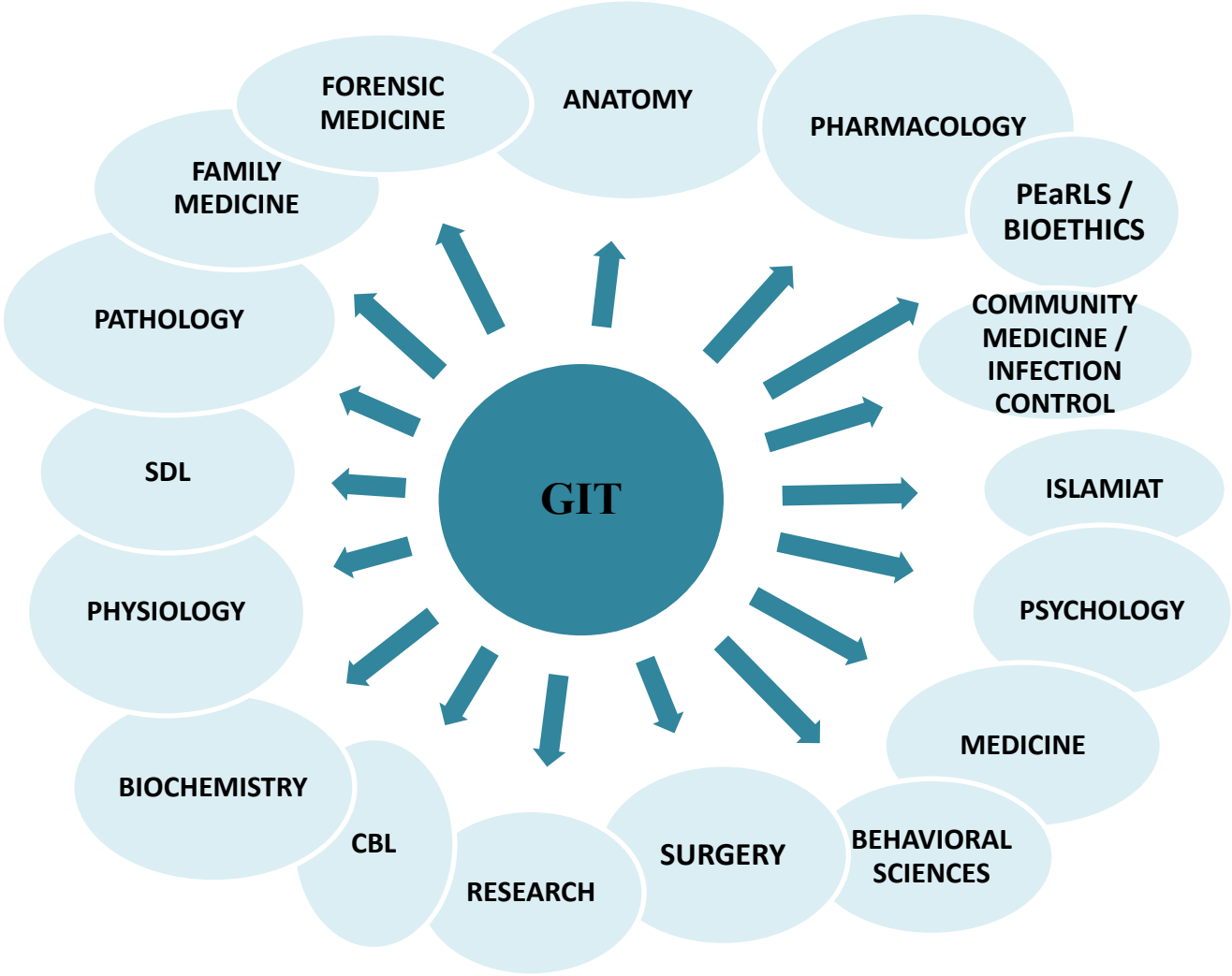
DURATION OF GIT MODULE:
9 weeks

DATE:
25.10 . 22 – 22.12 . 2022

END OF MODULE ASSESSMENT (EOA):

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022



BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022
INTEGRATED TEACHING

DEPARTMENT OF PHYSIOLOGY By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
GUT WALL 1 • 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	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs
GUT WALL 2 • Layers of GI wall • Basic electrical rhythm, slow wave & spike potential • Cells responsible for pacemaker activity in GIT & their location in small & large intestine • Difference between action potential of GI smooth muscles & other muscles • Factors increasing or decreasing frequency of spike potential & Phenomenon of tone, a property of GI muscles.	Lecture	Lecture hall 1	Dr. M. Ali	SEQs, BCQs
ENTERIC NERVOUS SYSTEM 1 • Define Enteric Nervous System	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs

• List the Divisions of Enteric Nervous System • Mention Location of Meissner's & Myenteric Nerve Plexus in the Gut Wall • Describe the Role of Enteric System in Control of G.I Functions.				
ENTERIC NERVOUS SYSTEM 2 • 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	Lecture hall 1	Dr. Saba Leeza	SEQs, BCQs
AUTONOMIC CONTROL OF GIT 1 • 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	Lecture hall 1	Dr. Adnan Ahmed	BCQs
AUTONOMIC CONTROL OF GIT 2 • To make students more focused on the topic which is covered in lecture. For practice of BCQs and SEQs	Activity	Lecture hall 1	Dr. Saba Leeza	SEQs, LEQs, BCQs
G.I REFLEXES 1 • Define "Reflex" & "Reflex Arc" • List the Gastrointestinal Reflexes • Categorize G.I Reflexes according to the Level of their Integration.	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

ABDOMINAL EXAMINATION 1 • Follow the ethical rules to greet the patient. • Inspect the abdomen properly. • Look for shape, symmetry, equal movement of abdomen with respiration. • Look for any mass, swelling, scar, pigmentation, strias. • Look for position of umbilicus. • Look groins for any abnormality.	Skill lab	Physiology laboratory	Dr. Saba Leeza & Dr. Fizza	OSPE
ABDOMINAL EXAMINATION 2 ▪ Follow the ethical rules to greet the patient. ▪ Superficially palpate the abdomen for temp and tenderness. ▪ Deeply palpatethe abdomen for any painful mass identification ▪ Palpate all the viscera's ▪ Palpate liver with liver span measurement and palpate spleen and kidneys.	Skill lab	Physiology laboratory	Dr. Fizza & Dr. Sobia Khan	OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

G.I REFLEXES 2 ▪ Reflexes that occur entirely via enteric nervous system, ▪ Reflexes that are mediated via sympathetic ganglia, ▪ Reflexes that occur via spinal cord or brain stem, ▪ Effects & causative factors of entero-gastric reflex ▪ Role of gastrocolic&duodenocolic reflexes in movements of colon, ▪ Colonoileal reflex & ▪ Other reflexes i.e. peritoneo-intestinal, reno&vesico-intestinal reflexes.	Lecture	Lecture hall 1	Dr. M. Ali	OPSE, BCQs
DEGLUTITION 1 • Define deglutition. • List the phases of deglutition. • Locate the deglutition center in the brain.	Lecture	Lecture hall 1	Dr. Ruqaya Nangrejo	OPSE, BCQs
DEGLUTITION 2 • Summarize the process of deglutition & the deglutition reflex • BCQ activity on deglutination	Lecture	Lecture hall 1	Dr. Saba Leeza	OPSE, BCQs, SEQs
MOTOR FUNCTIONS OF STOMACH 1 • List & Define the Physiologic Division of Stomach. • Explain the Arrangement of Smooth Muscles in Stomach. • List & Explain the Motor Functions of the Stomach. • Describe Hunger Contractions & the Vomiting.	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs

MOTOR FUNCTIONS OF STOMACH 2 • 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	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs
MOVEMENTS OF SMALL INTESTINE 1 • 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	Lecture hall 1	Dr. M. Ali	SEQs, BCQs
MOVEMENTS OF SMALL INTESTINE 2 ▪ Role of CGRP (calcitonin gene receptor peptide) in movements & its significance, ▪ Hormonal control of propulsive movements of small intestine i.e. hormones that stimulate & that inhibit movements ▪ Movements of villi.	Lecture	Lecture hall 1	Dr. M. Ali	SEQs, BCQs
MOVEMENTS OF COLON 1 • Define Colon (Large Intestine).	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs

• 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				
MOVEMENTS OF COLON 2 • Assessment was taken on the topic in the form of Bcq and SEQ	Lecture	Lecture hall 1	Dr. Sobia Khan	SEQs, BCQs
DEFECATION 1 • 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	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs
DEFECATION 2 • Assessment was taken on the topic in the form of Bcq and SEQ	Lecture	Lecture hall 1	Dr. Sobia Khan	SEQs, BCQs
SALIVA AND IT'S FUNCTIONS • Locate the G.I Glands & their secretions • Summarize the types of salivary gland with their secretions	Lecture	Lecture hall 1	Dr. Saba Leeza	OPSE, BCQs, SEQs

• Describe the components & importance of saliva. • Explain the mechanism of salivary secretion. • Discuss the factor regulating salivary secretions				
ASSESSMENT • BCQ/ SEQ activity is conducted related to all previous topics covered in the module.	Formative assessment	Lecture hall 1	Dr. Saba Leeza	BCQs, SEQs
GASTRIC ACID SECRETION 1 • 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	Lecture hall 1	Dr. Sobia Khan	SEQs, BCQs
PANCREATIC SECRETION • 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	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs
SECRETION OF BILE • Define bile • List the components of biliary secretion.	Lecture	Lecture hall 1	Dr. Saba Leeza	BCQs, SEQs

• Discuss the role of liver & the gall bladder in the formation of bile • Explain emptying of gall bladder • List the functions of bile				
ABDOMINAL EXAMINATION (PERCUSSION AND AUSCULTATION) ▪ Follow the ethical rules to greet the patient. ▪ To perform fluid thrill and shifting dullness ▪ Know the values of ascetic fluid in both tests ▪ Know the significance of percussion ▪ To auscultate the gut sounds	Skill lab	Physiology laboratory	Dr. Saba Leeza & Dr. Fatima	OSPE
FUNCTIONS OF BILE SALTS 1 • 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	Lecture hall 1	Dr. Saba Leeza	BCQs, SEQs
FUNCTIONS OF BILE SALTS 2 • Define “Bile”. • Describe Functional Arrangement of Hepatocytes Related to Bile Production. • List Stages of Biliary Secretions.	Lecture	Lecture hall 1	Dr. Adnan Ahmed	SEQs, BCQs

• Explain Formation & Functions of Bile Salts. • Describe Enterohepatic Circulation of Bile Salts with its Importance.				
FUNCTIONS OF COLON • To conduct SEQs on the topic of functions of colon	Activity	Lecture hall 1	Dr. Saba Abrar	SEQs
JOURNAL CHECKING • To check the entire practicals' performed and checked if the results are written in physiology and haematology journal.	Laboratory	Physiology lab	Dr. Fatima Dr. Asma Dr. Fizza	OSPE
MCQs BASED ACTIVITY • To know Chewing, Functions & components of saliva, Motor functions of stomach & Gastric secretion • To understand Pancreatic secretions (exocrine), Bile, Movements of colon & Defecation reflex	Activity	Lecture hall 1	Dr. M. Ali Dr. Saba Leeza	BCQs
OSPE BASED ACTIVITY • To recall the Knowledge Regarding GIT Functions. • To have clear concept about movements & functions of colon. • To integrate the Knowledge with Reference to Figures Shown. • To deal the OSPEs during Final Examination.	Activity	Lecture hall 1	Dr. Saleem & Dr. M.Ali	OSPE
SEQs BASED ACTIVITY • To conduct the SEQs of all previous topics covered in the module	Activity	Lecture hall 1	Dr. Saba Leeza	SEQs

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

FUNCTIONS OF LIVER 1 • List the metabolic functions of liver. • Identify the role of liver in storage of blood. • Discuss the role of liver in plasma protein synthesis. • Summarize the storage functions of liver	Lecture	Lecture hall 1	Dr. Saba Leeza	SEQs, BCQs
FUNCTIONS OF LIVER 2 • List the function of "Liver". • Describe the Role of Liver in; Metabolism, Storage, Synthesis & Degradation of Substances.	Lecture	Lecture hall 1	Dr. Adnan	SEQs, BCQs
ACHALASIA AND MEGA COLON • Enlist 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	Lecture hall 1	Dr. Saleem	SEQs, BCQs
GROUP DISCUSSION • Know how all the lab practicals are performed • How questions can be attempted • How OSPE can be attempted	Activity	Physiology lab	Dr. Saba Leeza Dr. Sobia Khan	OSPE
PEPTIC ULCER • Define "Peptic Ulcer". • Describe Mucosal Barrier Preventing the Digestive Action of Acids & Pepsin.	Lecture	Lecture hall 1	Dr. Adnan	SEQs, BCQs

• List the Factor that Result in Development of Peptic Ulcer. • Mention Treatment to Cure a Person from Peptic Ulcer				
VOMITING AND DIARRHEA • Define the nausea , retching and vomiting • Enlist the causes of vomiting. • Describe the vomiting center. • Describe the vomiting reflex. • Describe the antiperistalsis. • Describe the vomiting act • Define diarrhea • Describe the classification of diarrhea • Describe the enteritis, ulcerative colitis & psychogenic diarrhea	Lecture	Lecture hall 1	Dr. Saleem	SEQs, BCQs

DEPARTMENT OF BIOCHEMISTRY

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
DIGESTION AND ABSORPTION OF CARBOHYDRATES • 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	Lecture hall 1	Dr. Farhan	MCQs SEQs
DIGESTION AND ABSORPTION OF CARBOHYDRATES IN SMALL INTESTINE • 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). • Name the sugars absorbed by facilitated diffusion.	Lecture	Lecture hall 1	Dr. Farhan	MCQs SEQs
DIGESTION OF LIPIDS IN STOMACH	Lecture	Lecture hall 1	Dr. Farhan	MCQs SEQs

• 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.				
DIGESTION AND ABSORPTION OF LIPIDS IN SMALL INTESTINE • Recognize the factors that make small intestine the major site for fat digestion. • Describe the role of the hormones:secretin and cholecystokinin. • Describe the composition of bile. • 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.	Lecture	Lecture hall 1	Dr. Farhan	MCQs SEQs
DIGESTION AND ABSORPTION OF PROTEINS • List the principal proteins present in the foodstuffs which we take in our diet. • List the proteolytic enzymes present in gastric juice.	Lecture	Lecture hall 1	Dr. Farhan	MCQs SEQs

• 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. • 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.				
GASTRIC FUNCTION TESTS-1 • 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 seen commonly in patients with no gastric pathologies. (FTM). • Outline the abnormal response of FTM seen commonly in patients**.**	Lecture	Lecture hall 1	Dr. Farhan	MCQs
GASTRIC FUNCTION TESTS-2 • Define Hypercholrhydria, Hypochlorhydria and achylia gastric. • Discuss about hyperchlorhydria, hypochlorhydria and achylia Gastric.	Lecture	Lecture hall 1	Dr. Farhan	MCQs

• 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.				
GLYCOLYSIS (CARBOHYDRATE METABOLISM) • Define glycolysis. • Differentiate between aerobic and anaerobic glycolysis. • 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**.**	Lecture	Lecture hall 1	Ms. Nazish	MCQs SEQs
KREB CYCLE (CARBOHYDRATE METABOLISM) • 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	Lecture	Lecture hall 1	Dr. Farhan	MCQs SEQs

phosphorylation. • Identify that TCA cycle is "amphibolic" in nature. • Describe the regulation of krebs cycle.				
GLUCONEOGENESIS (CARBOHYDRATE METABOLISM) • 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	Lecture hall 1	Dr. Iffat	MCQs SEQs
GLYCOGENESIS (GLYCOGEN METABOLISM) 1 • Identify that glycogen is the major storage form of glucose in human beings • Describe the reactions of glycogenesis. • Describe the regulation of glycogen synthesis.	Lecture	Lecture hall 1	Dr. Iffat	MCQs SEQs
GLYCOGENESIS (GLYCOGEN METABOLISM) 2 • Identify that glycogen breakdown is not the reversal of glycogenesis. • Describe the reactions of glycogenolysis. • Describe the regulation of glycogenolysis.	Lecture	Lecture hall 1	Dr. Iffat	MCQs SEQs
INTRODUCTION TO NUTRITION • Define caloric value of food. • Define unit of energy-kilocalorie • Define BMR	Lecture	Lecture hall 1	Ms. Nazish	MCQs

• Define balanced diet • Describe the role of proteins in the nutrition • List the factors influencing biological value of proteins • Identify the quantity of proteins required in the diet.				
PROTEIN CALORIE MALNUTRITION • 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	Lecture hall 1	Ms. Nazish	MCQs
LIVER FUNCTION TEST 1 • 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. • 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	Lecture	Lecture hall 1	Dr. Farhan	MCQs
LIVER FUNCTION TEST 2 • 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	Lecture	Lecture hall 1	Dr. Farhan	MCQs

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.				
ESTIMATION OF TOTAL PROTEINS • State the normal range of Total plasma proteins. • Identify that Serum Total Proteins is made up of Serum Albumin and Serum Globulin. • Name the reagents to be used in the experiment. • Read the instructions to prepare the stock standard solutions 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. • Calculate the concentration of stock standard solutions of 'S' test tubes. • Draw the graph to obtain the concentration of total proteins for the sample. • 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	Practical	Biochemistry Laboratory	Dr. Farhan Ms. Nazish	OSPE

hyperproteinemia.				
ESTIMATION OF ALBUMIN : GLOBULIN RATIO • 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. • 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	Biochemistry Laboratory	Dr. Farhan Ms. Nazish	OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

DEPARTMENT OF ANATOMY By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
ANTEROLATERAL ABDOMINAL WALL • What is 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Shahid Dr. Fatima	BCQs, SEQs OSPE
RECTUS SHEET, INGUINAL CANAL AND HERNIAS I • Define the rectus sheet? • Describe the composition and contents of rectus sheet? • What is inguinal canal?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Hina Dr. Fatima	BCQs, SEQs OSPE
RECTUS SHEET, INGUINAL CANAL AND HERNIAS II • Describe the boundaries and contents of inguinal canal? • Define inguinal hernia? • What is the classification of inguinal hernias?	Lecture	Lecture hall 1	Dr. Aneela	BCQs, SEQs

• Differentiate the direct and indirect inguinal hernias in detail?	Practical	Anatomy LRC	Dr. Fatima	OSPE
ORAL CAVITY AND ESOPHAGUS • What are the boundaries of oral cavity? • Describe the oral mucosa and tongue? • Describe the extent of esophagus?	Lecture	Lecture hall 1	Dr. Farhan	BCQs, SEQs
• What are the constrictions of esophagus? • Describe the lower esophageal sphincter? • Describe the blood supply, innervation and lymphatic drainage of esophagus? • What is gastro esophageal reflux disease (GERD)?	Practical	Anatomy LRC	Dr. Fatima	OSPE
STOMACH • What are the parts of stomach? • Describe the attachments of stomach?	Lecture	Lecture hall 1	Dr. Shahid	BCQs, SEQs
• Describe the blood supply, innervation and lymphatic drainage of stomach? • What is pyloric stenosis?	Practical	Anatomy LRC	Dr. Fatima	OSPE
PERITONEUM I • Define peritoneum? • What is parietal and visceral peritoneum?	Lecture	Lecture hall 1	Dr. Hina	BCQs, SEQs
• 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?	Practical	Anatomy LRC	Dr. Fatima	OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

PERITONEUM II • 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Farhan Dr. Fatima	BCQs, SEQs OSPE
DIAPHRAGM • Define diaphragm? • What are the attachments of diaphragm? • Describe the openings of diaphragm with their contents? • Describe the blood supply, innervation and lymphatic drainage of diaphragm? • What are diaphragmatic hernias?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Aneela Dr. Fatima	BCQs, SEQs OSPE
POSTERIOR ABDOMINAL WALL • What are 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Shahid Dr. Fatima	BCQs, SEQs OSPE
LARGE BLOOD VESSELS OF GIT • Describe abdominal aorta in detail? • What are branches of abdominal aorta? • What is the level of entrance and its termination in abdomen? • Describe celiac trunk its branches and area of supply? • Describe SMA its branches and area of supply?	Lecture Practical	Lecture hall 1	Dr. Hina Dr. Fatima	BCQs, SEQs OSPE

• Describe IMA its branches and area of supply? • Describe portal vein its formation, course and termination? • What is aortic dissection and aortic aneurysm?		Anatomy LRC		
SMALL INTESTINE I • Describe the parts of small intestine? • What is duodenum? • Describe the parts of duodenum and their important relations? • Describe blood supply, innervation and lymphatic drainage of duodenum? • What is duodenal atresia? • What is duodenal ulcer?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Shahid Dr. Fatima	BCQs, SEQs OSPE
SMALL INTESTINE II • 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Farhan Dr. Fatima	BCQs, SEQs OSPE
LIVER • 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? • What is the accessory lobe of liver? • What are hepatic segments? • Define hepatic cirrhosis?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Aneela Dr. Fatima	BCQs, SEQs OSPE

• What is CLD?				
EXTRA BILIARY APPARATUS • What is gall bladder? • 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?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Hina Dr. Fatima	BCQs, SEQs OSPE
APPENDIX AND CECUM • What are the parts of large intestine? • Describe cecum and appendix? • Describe the cecal recess? • Describe mesoappandix and blood supply of appendix? • What is appendicitis and appendectomy?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Shahid Dr. Fatima	BCQs, SEQs OSPE
LARGE INTESTINE I • 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Farhan Dr. Fatima	BCQs, SEQs OSPE
LARGE INTESTINE II • Describe the relations of descending colon? • Describe the relations of sigmoid colon? • What are the recesses of sigmoid colon?	Lecture	Lecture hall 1	Dr. Aneela	BCQs, SEQs

• What is sigmoid mesocolon?	Practical	Anatomy LRC	Dr. Fatima	OSPE
LARGE INTESTINE III • What is the blood supply, innervation and lymphatic drainage of large intestine? • What is intussusception and volvulus? • Describe diverticulitis?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Hina Dr. Fatima	BCQs, SEQs OSPE
SPLEEN AND PANCREAS • 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? • What is pancreatitis?	Lecture Practical	Lecture hall 1 Anatomy LRC	Dr. Shahid Dr. Fatima	BCQs, SEQs OSPE
RECTUM • 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 Practical	Lecture hall 1 Anatomy LRC	Dr. Farhan Dr. Fatima	BCQs, SEQs OSPE
ANAL CANAL • What are the peritoneal relations of anal canal?	Lecture	Lecture hall 1	Dr. Aneela	BCQs, SEQs

• 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?	Practical	Anatomy LRC	Dr. Fatima	OSPE
EMBRYOLOGY				
DIVISION OF GUT TUBE • Describe the formation of gut tube? • What are the divisions of the gut tube? • Describe the derivatives of endoderm and visceral mesoderm? • Describe the molecular regulation of gut tube formation?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF FOREGUT; ESOPHAGUS • Describe the derivatives of foregut? • Describe the formation of esophagus in detail? • What is esophageal atresia? • Describe tracheoesphageal fistula (TEF)? • What is congenital hiatal hernia?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF FOREGUT; STOMACH • Describe the formation of stomach? • Describe the rotation of the stomach in embryo? • What is pyloric stenosis?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

DERIVATIVES OF FOREGUT; DUODENUM • Describe the formation of duodenum? • Describe the rotation of duodenum? • What is duodenal atresia?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF FOREGUT; LIVER AND GALL BLADDER • 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 Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF FOREGUT; PANCREAS • Explain the formation of pancreas? • Describe the molecular regulation of pancreas development? • What is annular pancreas? • Describe accessory pancreatic tissue?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF MDGUT I • Describe the derivatives of mid gut? • Describe the physiological herniation? • Explain the rotation of mid gut? • Describe the retraction of mid gut herniation and when it occurs?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
DERIVATIVES OF MIDGUT II • What is omphalocele? • Describe gastroschisis?	Lecture	Lecture hall 1	Dr. Tayyaba	BCQs, SEQs

• What is Meckel's diverticulum? • Describe volvulus? • What is apple peel atresia?	Practical	Dissection Hall	Dr. Fatima	OSPE
DERIVATIVES OF HINDGUT • Describe the derivatives of hindgut? • Describe the formation of urorectal septum? • Describe rectovaginal fistula? • What is rectoanal fistula? • Describe congenital megacolon?	Lecture Practical	Lecture hall 1 Dissection Hall	Dr. Tayyaba Dr. Fatima	BCQs, SEQs OSPE
HISTOLOGY				
ORAL CAVITY • Describe the general structure of digestive tract? • Describe the histology of lip? • Describe the histology of tongue?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE
ESOPHAGUS • Describe the general histology of esophagus? • Explain mucosa, submucosa, muscularis and serosa/ adventitia of esophagus? • Describe the esophageal glands in detail?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

STOMACH • Describe the general histology of stomach? • Explain mucosa, submucosa, muscularis and serosa of stomach? • Describe the cells of stomach in detail?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE
SMALL INTESTINE • Describe the general histology of small intestine? • Explain mucosa, submucosa, muscularis and serosa of small intestine? • Describe the cells of small intestine? • What are plicacirculares? • Describe villi and microvilli? • Describe the payer's patches?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE
LARGE INTESTINE • Describe the general histology of large intestine? • Explain mucosa, submucosa, muscularis and serosa of large intestine? • Describe the cells of large intestine?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

LIVER • 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 Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE
GALL BLADDER • Describe the general histology of gall bladder? • Explain mucosa, muscularis and serosa of gall bladder?	Lecture Practical	Lecture hall 1 Histology Lab	Dr. Inayat Dr. Fatima	BCQs, SEQs OSPE

DEPARTMENT OF PHARMACOLOGY

By the end of lecture/module, first professional MBBS student will be able to:

TOPIC AND OBJECTIVES	TEACHING STRATEGY	LOCATION	FACILITATOR	ASSESSMENT
OVERVIEW OF PHARMACOLOGY OF EMESIS • Describe the physiology of emesis. • Explain the pathophysiology of emesis. • Discuss and understand the mechanistic pharmacology of emesis.	Lecture	Lecture hall 1	Dr. Hina	BCQs, SEQs
OVERVIEW OF PHARMACOLOGY OF DIARRHEA • Describe the physiology of diarrhea.	Lecture	Lecture hall 1	Dr. Hina	BCQs, SEQs

• Explain the pathophysiology of diarrhea. • Discuss and understand the mechanistic pharmacology of diarrhea.				

DEPARTMENT OF FORENSIC MEDICINE By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
GASTRIC LAVAGE • Apply General Principles of Treatment of Poisoning. • Describe the Procedure of Gastric Lavage / Stomach Wash.	Lecture	Lecture hall 1	Dr. Rafay. A. Siddiqui	BCQs, SEQs
POISONS ACTING ON THE GIT • List the Uses of Heavy Metals (Arsenic, Copper, Zinc, Lead & Mercury) • Describe the Mechanism of Action of all these. • Diagnose the Acute & Chronic Signs & Symptoms of Poisoning by all above. • List the Treatment options for Acute & Chronic Poisoning by all above • Identify Fatal Doses & Fatal Periods of them. • Describe Postmortem Appearances of Poisoning by them. • Give ML importance.	Lecture	Lecture hall 1	Dr. Rafay. A. Siddiqui	BCQs, SEQs

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

DEPARTMENT OF FAMILY MEDICINE By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
GIT MODULE • Discuss common symptoms associated with GI related problems • Role of family physician in the management of GI related problems.	Lecture	Lecture hall 1	Dr. Faisal Ahmed	MCQs

DEPARTMENT OF COMMUNITY MEDICINE By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
FOOD POISONING • Define food poisoning. • Discuss types of food • poisoning. • Difference between cholera & food poisoning.	Lecture	Lecture hall 1	Prof. Dr Nazia Jameel	MCQs, SEQs, OSPE, Viva
INSTESTINAL INFECTIONS: • Define & enlist some common intestinal infections. • Discuss common intestinal infection.	Lecture	Lecture hall 1	Prof. Dr Nazia Jameel	MCQs, SEQs, OSPE, Viva

• Describe the prevention & control of intestinal infection.				
NUTRITION • Define Nutrition, nutrient, food and diet. • Discuss the classification of Nutrients. • Discuss Macro-Nutrients. • Describe the important functions of macronutrients	Lecture	Lecture hall 1	Prof. Dr Nazia Jameel	MCQs, SEQs, OSPE, Viva

DEPARTMENT OF PATHOLOGY

By the end of lecture/module, first professional MBBS student will be able to:

TOPIC AND OBJECTIVES	TEACHING STRATEGY	LOCATION	FACILITATOR	ASSESSMENT
HEPATITIS • Briefly explain the followings; - definition, etiology, pathogenesis, types, clinical features, lab tests and treatment	Lecture	Lecture hall 1	Dr. Sidra Izhar	SEQs, MCQs

DEPARTMENT OF SURGERY

By the end of lecture/module, first professional MBBS student will be able to:

TOPIC AND OBJECTIVES	TEACHING STRATEGY	LOCATION	FACILITATOR	ASSESSMENT
ABDOMINAL WALL HERNIA: • Summarize the basic anatomy of abdominal wall and its natural or acquired	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs

• Weaknesses. • Define hernia • Enlist the causes of abdominal hernia • Classify the various types of abdominal wall hernia • Explain the complications of abdominal hernias as per natural progression of the disease. • Tabulate the difference between obstructed and strangulated hernia.				
CHOLELITHIASIS: • To summarize the basic anatomy and physiology of the gall bladder and bile ducts. • Enlist the disorders of the biliary tree • Classify the various types of gall stones and their causes. • Enlist signs and symptoms of patient with acute and chronic cholycystitis	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs
INTESTINAL OBSTRUCTION: • To summarize the basic anatomy and physiology of small and large intestines • To describe the pathophysiology of intestinal obstruction • To differentiate between dynamic and adynamic intestinal obstruction • Enlist the causes of intestinal obstruction • Classify various types of intestinal obstruction. • Explain the possible complications of intestinal obstruction.	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs
ACUTE ABDOMEN: • Define acute abdomen • Enlist the causes of acute abdomen	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs

• Define the cardinal features on history and examination				
ACUTE PANCREATITIS: • Summarize the surgical anatomy and physiology of pancreas. • Enlist Congenital abnormalities of the pancreas • Define and classify pancreatitis • Enumerate The Causes Of Acute Pancreatitis. • Explain the pathophysiology of acute pancreatitis	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs
DYSPHAGIA: • To summarize the basic anatomy and physiology of the oesophagus and their relationship to disease • To enumerate congenital anomalies of oesophagus • Define dysphagia • Enlist the causes of dysphagia • Classify dysphagia • To enlist the clinical features of benign and malignant diseases of oesophagus	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs
ACUTE APPENDICITIS: • To summarize the aetiology and surgical anatomy of acute appendicitis • Explain the basic concept of migratory right iliac fossa pain. • Enumerate the causes of right iliac fossa pain from the commonest to rarest • Define acute appendicitis • Enlist risk factor for acute appendicitis • Enumerate Common conditions encountered preoperatively	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

ANORECTAL DISEASES • 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 • Define and classify haemorrhoids. • Enlist the risk factors for haemorrhoids	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs
PERFORATED PEPTIC ULCER: • 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	Lecture hall 1	Dr. Sidra	MCQs, SEQs
NUTRITION IN SURGICAL PATIENTS: • Explain The causes and consequences of malnutrition in the surgical patient	Lecture	Lecture hall 1	Dr. Sidra	MCQs, SEQs

• Describe the Fluid and electrolyte requirements in the pre- and postoperative patient • Discuss The nutritional requirements of surgical patients • Enlist The different methods of providing nutritional support and their complications.				

DEPARTMENT OF RESEARCH By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
HOW TO REVIEW THE LITERATURE-1 • Define the literature review • Recall the sources of literature review	Lecture	Lecture hall 1	Dr. Ruqaya	Formative
HOW TO REVIEW THE LITERATURE-2 • Describe the steps of literature review • Recall the search engines and techniques of reviewing literature	Lecture	Lecture hall 1	Dr. Ruqaya	Formative
REINFORCEMENT OF THE PREVIOUS LECTURE • Define the literature review • Recall the sources of literature review • Describe the steps of literature review	Lecture	Lecture hall 1	Ms. Maria Rahim	Formative

• Recall the search engines and techniques of reviewing literature				

DEPARTMENT OF ISLAMIAT By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
PERIOD OF KHILAFAT-E-RASHIDA (HAZRAT ABUBAKAR SIDDUI RZ) • Explain the caliphate of Hazrat Abubakar RZ	Lecture	Lecture hall 1	Madam Uzma Waseem	BCQs, SEQs
PERIOD OF KHILAFAT-E-RASHIDA (HAZRAT UMAR FAROOQ RZ) • Explain the caliphate of Hazrat Umar Farooq RZ	Lecture	Lecture hall 1	Madam Uzma Waseem	BCQs, SEQs
PERIOD OF KHILAFAT-E-RASHIDA (HAZRAT USMAN RZ) • Explain the caliphate of Hazrat Usman RZ	Lecture	Lecture hall 1	Madam Uzma Waseem	BCQs, SEQs
PERIOD OF KHILAFAT-E-RASHIDA (HAZRAT ALI RZ) • Explain the caliphate of Hazrat Ali RZ	Lecture	Lecture hall 1	Madam Uzma Waseem	BCQs, SEQs

DEPARTMENT OF MEDICINE

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
PEPTIC ULCER DISEASE I AND II • Describe pathogenesis of peptic ulcer disease • Identify clinical features and diagnostic investigations of the disease • Develop a treatment plan to control the disease **FUNCTIONAL DYSPEPSIA** • Define and diagnose functional dyspepsia on the basis of ROME CRITERIA • Review drugs which can be used to treat the disease **GERD** • Define gastroesophageal reflux disease and describe its risk factors and pathogenesis • Distinguish common clinical signs and symptoms of the disease • Enlist the diagnostic investigations and prescribe treatment of the disease **IRRITABLE BOWEL SYNDROME** • Define and describe irritable bowel syndrome according to ROME criteria • Discuss the pathogenesis and clinical presentation of disease • State regarding diagnostic investigation and treatment **CIRRHOTIC LIVER DISEASE** • Identify etiology and pathogenesis of cirrhotic liver disease	Lecture	Lecture hall 1	Dr. Masooda Fatima	BCQs, SEQs, OSCE

• Restate various clinical presentations of cirrhotic liver disease • Analyze the role of investigations to diagnose the disease • Formulate plan for treatment of signs and symptoms as well as precautious measures to decrease risk of complications **INFLAMMATORY BOWEL DISEASE** • Define and classify inflammatory bowel disease • Discuss its etiology and pathogenesis • Distinguish the clinical features of ulcerative colitis and crohn's disease • Enlighten the investigations done for diagnosis and prescribe treatment of the disease **CONSTIPATION** • Describe etiology and pathogenesis of constipation • Demonstrate diagnostic investigations and treatment of constipation				

DEPARTMENT OF PEARLS By the end of lecture/module, first professional MBBS student will be able to:				
TOPIC AND OBJECTIVES	**TEACHING STRATEGY**	**LOCATION**	**FACILITATOR**	**ASSESSMENT**
LECTURE 1 • Discuss reflective practices. • Develop a reflective portfolio.	Lecture	Lecture hall 1	Dr. Talal	Formative
LECTURE 2:	Lecture	Lecture hall 1	Dr. Saima	Formative

• Feedback session on reflective portfolios				

CASE-BASED LEARNING (CBL)

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

1. JAUNDICE

By the end of lecture/module, first professional MBBS student will be able to:

- Describe the structure of liver. What is portal triad?
- What are hepatic sinusoids? What are the cells present in liver?
- What is jaundice?
- Classification of jaundice?
- What are the types of bilirubin?
- How jaundice is diagnosed?

2.ESOPHAGEAL DISORDER

By the end of lecture/module, first professional MBBS student will be able to:

- What is dysphagia?
- What is achalasia?
- What are the sign and symptoms of achalasia?
- What are the causes of achalasia?
- Define stages of swallowing?
- What is the Role of esophageal peristalsis in normal swallowing
- What is LES and mention its function
- Define innervations of lower esophageal sphincter.
- How many parts does the esophagus have?
- Name the epithelium.
- Name the muscles present in different parts of esophagus?
- What is the blood supply in all 3 parts of esophagus?

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

TIME TABLES FOLLOWED IN THE GIT MODULE:

BAQAI MEDICAL COLLEGE

WEEK 1

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
24-10-2022 MONDAY	Blood Module exam			Blood module exam				Blood module exam
25-10-2022 TUESDAY	PHYSIOLOGY Gut Wall-I	ANATOMY Introduction of oral cavity		ANATOMY GROSS of TONGUE	BIOCHEMISTRY Digestion of carbohydrates 1	HISTOLOGY TONGUE		PHYSIOLOGY Gut Wall-II
26-10-2022 WEDNESDAY	EMBRYO Development of TONGUE	PHYSIOLOGY Enteric nervous system-I		ANATOMY GROSS of salivary gland	PHYSIOLOGY Enteric nervous system-II	SDL		EMBRYO Development of salivary gland
27-10-2022 THURSDAY	BIOCHEMISTRY Digestion & absorption of carbohydrate 2	HISTOLOGY salivary glands		PATIENT SAFTEY	PHYSIOLOGY Autonomic control of GIT-I	SDL		PHYSIOLOGY Autonomic control of GIT-II

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

28-10-2022 FRIDAY	**BIOCHEMISTRY** Digestion of lipids	**ANATOMY** LRC		**SDL**	**BIOCHEMISTRY** Absorption of lipids	**ISLAMIAT**		**ANATOMY** Mastication Muscles

WEEK 2

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
31-10-2022 MONDAY	**PHYSIOLOGY** GIT Reflexes-I	**ANATOMY** **ABDOMINAL WALL**		**PRACTICAL:** **PHYSIO** (Abdomen examination) **ANATOMY** (tongue) **BIOCHEM** (Estimation of Protein)		**BIOCHEMISTRY** Digestion and absorption of proteins 1		**ANATOMY** ABDOMINAL QUADRANTS
1-11-2022 TUESDAY	**ANATOMY** PHARYNX	**MEDICINE**		**PRACTICAL:** **PHYSIO** (Abdomen examination) **ANATOMY** (tongue) **BIOCHEM** (Estimation of Protein)		**SDL**		**BIOCHEMISTRY** Digestion and absorption of proteins2
2-11-2022 WEDNESDAY	**HISTOLOGY** OESOPHAGUS AND STOMACH	**PHYSIOLOGY** GIT Reflexes-II		**PRACTICAL:** **PHYSIO** (Abdomen examination)		**SDL**		**ANATOMY** LRC PHARYNX module

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

				ANATOMY (tongue) **BIOCHEM** (Estimation of Protein)				
3-11-2022 **THURSDAY**	**ANATOMY** PERITONEUM	**PHYSIOLOGY** Deglutition-I		**PATHO**	**PHYSIOLOGY** Deglutition-II	**BIOCHEMISTRY** Gp Discussion		**PHYSIOLOGY** Motor functions of stomach-I
4-11-2022 **FRIDAY**	**MEDICINE**	**BIOCHEMISTRY** Gastric function Test 1		**SDL**	**PHARMACOLOGY**	**ISLAMIAT**		**ANATOMY** LRC

WEEK 3

DATE & DAY	**8:30-9:30**	**9:30-10:15**	**10:15-10:30**	**10:30-11:30**	**11:30-12:30**	**12:30-1:15**	**1:15-1:30**	**1:30-3:30**
7-11-2022 **MONDAY**	**ANATOMY** **Esophagus**	**PHYSIOLOGY** Motor functions of stomach-II		PRACTICAL: **PHYSIOLOGY** :SGT **ANATOMY:** salivary glands **BIOCHEM** :clinical interpretations		**ANATOMY** **stomach structure, relations**		**PHYSIOLOGY** Movement of small intestine-I

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

8-11-2022 TUESDAY	**BIOCHEMISTRY** Gastric function Test 2	**Surgery**		PRACTICAL: **PHYSIOLOGY:** SGT **ANATOMY:** salivary glands **BIOCHEM:** clinical interpretation		**SDL**		**PHYSIOLOGY** Movement of small intestine-II
9-11-2022 WEDNESDAY OFF IQBAL DAY	**ANATOMY** **stomach N/S AND B/S**	**SDL**		PRACTICAL: **PHYSIOLOGY;** SGT **ANATOMY:** salivary glands **BIOCHEM**: Clinical interpretation		**COMMUNITY MEDICINE**		**EMBRYOLOGY** **Fore gut**
10-11-2022 THURSDAY	**MEDICINE**	**PHYSIOLOGY** Movements of colon-I		**ANATOMY** **Jejunum & ileum**	**SDL**			**ANATOMY** Colon, Sigmoid colon
11-11-2022 FRIDAY	**ANATOMY** Cecum, appendix	**SURGERY**		**SDL**	**CBL** Based on previous topics			**PHYSIOLOGY** Movements of colon-I

WEEK 4

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
14-11-2022 MONDAY	**PHYSIOLOGY**	**SURGERY**		**Practical** **HISTOLOGY**oesophagus stomach **BIOCHEM:** Estimation of Albumin		**SDL**		**PHYSIOLOGY** Defecation-II

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

	Defecation-I			**PHYSIO**:(Abdomen examination-Inspection)				
15-11-2022 TUESDAY	**BIOCHEMISTRY** Carbohydrates metabolism	**PEARLS**		**Practical** **HISTOLOGY**oesophagus stomach **BIOCHEM:** Estimation of Albumin **PHYSIO**: (Abdomen examination-Inspection)		**PHYSIOLOGY** Saliva & functions		**EMBRYOLOGY** **Development of GUT**
16-11-2022 WEDNESDAY	**MEDICINE**	**BIOCHEMISTRY** Glycolysis 1		**Practical** **HISTOLOGY**oesophagus stomach **BIOCHEM:** Estimation of Albumin **PHYSIO**: (Abdomen examination-Inspection)		**SDL**		**PHYSIOLOGY** FORMATIVE ASSESMENT
17-11-2022 THURSDAY	**BIOCHEMISTRY** Glycolysis 2	**MEDICINE**		**SURGERY**	**SDL**			**ANATOMY** rectum & anal canal
18-11-2022 FRIDAY	**BIOCHEMISTRY** TCA cycle 1	**RESEARCH**		**BIOETHICS**	**EMBRYOLOGY** Development of GUT	**ISLAMIAT**		**PHYSIOLOGY** Secretions of gastric acid-I

WEEK 5

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
21-11-2022 MONDAY	**BIOCHEMISTRY** TCA cycle 2	**PATHO**		**Anatomy Poster/ Model Competition**				**Anatomy Poster/Model Competition**
22-11-2022 TUESDAY	**PHYSIOLOGY** Pancreatic secretion-I	**COMMUNITY MEDICINE**		**Anatomy Poster/Model Competition**				**Anatomy Poster/Model Competition**
23-11-2022 WEDNESDAY	**MEDICINE**	**PEARL**		**Anatomy Poster/Model Competition**				**Anatomy Poster/Model Competition**
24-11-2022 THURSDAY	**PHYSIOLOGY** FORMATIVE ASSESMENT	**PEARL**		**Anatomy Poster/Model Competition**				**Anatomy Poster/Model Competition**
25-11-2022 FRIDAY	**PHYSIOLOGY** Secretion of Bile	**RESEARCH**		**Anatomy Poster/Model Competition**				**Anatomy Poster/Model Competition**

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

WEEK 6

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
28-11-2022 MONDAY	**PATHO**	**BIOCHEMISTRY** gluconeogenesis		**Practical** **HISTO** small intestine **BIOCHEM** :clinical interpretation **PHYSIO**(Abdomen examination-Palpation)		**SDL**		**ANATOMY** **POSTER/MODEL COMPETITION AWARDS DISTRIBUTION**
29-11-2022 TUESDAY	**ANATOMY** Abdominal aorta & branches	**PHARMA**		**Practical** **HISTO** small intestine **BIOCHEM**: clinical interpretation **PHYSIO**(Abdomen examination-Palpation)		**SDL**		**PHYSIOLOGY** Functions of Bile salt-I
30-11-2022 WEDNESDAY	**ANATOMY** **OMENTA**	**PHYSIOLOGY** Functions of Bile salt-II		**Practical** **HISTO** small intestine **BIOCHEM**: clinical interpretation **PHYSIO**(Abdomen examination-Palpation)		**SDL**		**CBL**

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

1-12-2022 THURSDAY	**BIOCHEMISTRY** MCQS DISCUSSION	**SURGERY**		**COMMUNITY MEDICINE**	**SDL**	**FORENSIC MEDICINE**		**ANATOMY** Inferior Vena cava &tributaries
2-12-2022 FRIDAY	**MEDICINE**	**HISTOLOGY** SMALL INTEST		**SDL**		**ISLAMIAT**		**EMBRYOLOGY** **Development of STOMACH**

WEEK 7

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
5-12-2022 MONDAY	**PHYSIOLOGY** Functions of colon	**LIBRARY**		**Practical** **HISTOLOGY** large intestine **BIOCHEM:** graph formation **PHYSIO** (Abdomen examination **Percussion)**		**SDL**		**PHYSIOLOGY** **MCQ- Based Activity-I**
6-12-2022 TUESDAY	**PHYSIOLOGY** Functions of colon II	**MEDICINE**		**Practical** **HISTOLOGY**large intestine **BIOCHEM:** graph formation **PHYSIO** (Abdomen examination **Percussion)**		**SDL**		**EMBRYO** **DEVELOPMENT OF EXTRA BILLARY APPARATUS**

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

7-12-2022 WEDNESDAY	**BIOCHEMISTRY** Glycogen metabolism 1	**BIOETHICS**		**Practical** **HISTOLOGY**large intestine **BIOCHEM:** graph formation **PHYSIO** (Abdomen examination **Percussion)**		**SDL**		**PHYSIOLOGY** **MCQ- Based Activity-II**
8-12-2022 THURSDAY	**SURGERY**	**FORENSIC MEDICINE**		**SDL**	**SDL**			**CBL**
9-12-2022 FRIDAY	**PAEDS**	**MEDICINE**		**PHYSIOLOGY Activity- OSPEs**	**ANATOMY** LRC SPOTTING	**ISLAMIAT**		**BIOCHEMISTRY** Glycogen metabolism 2

WEEK 8

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

12-12-2022 MONDAY	**ANATOMY** SEQ ACTIVITY	**LIBRARY**		**PRACTICAL:** **HISTO**: rectum **BIOCHEM**: group presentation **PHYSIO:** (Abdomen examination Auscultation)		**SDL**		**PHYSIOLOGY** SEQ-Based Activity-I
13-12-2022 TUESDAY	**PHYSIOLOGY** Functions of liver	**SURGERY**		**PRACTICAL:** **HISTO**: rectum **BIOCHEM**: group presentation **PHYSIO:** (Abdomen examination Auscultation)		**MEDICINE**		**BIOCHEMISTRY** Liver function test1
14-12-2022 WEDNESDAY	**ANATOMY** Liver	**COMMUNITY MEDICINE**		**PRACTICAL:** **HISTO**: rectum **BIOCHEM**: group presentation **PHYSIO:** (Abdomen examination Auscultation)		**SDL**		**PHYSIOLOGY** SEQ-Based Activity-II
15-12-2022 THURSDAY	**RESEARCH**	**PHYSIOLOGY** Functions of liver		**SURGERY**	**SDL**			**EMBRYO** DEVELOPMENT OF EXTRA BILLARY APPARATUS
16-12-2022 FRIDAY	**BIOCHEMISTRY** Liver function test2	**MEDICINE**		**ISLAMIAT**	**EMBRYO** DEVELOPMENT of mid gut	**SDL**		**PHYSIOLOGY** Achalasia and megacolon

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

WEEK 9

DATE & DAY	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
19-12-2022 MONDAY	**BIOCHEMISTRY** Nutrition 1	**EMBRYO** DEVELOPMENT of HIND GUT		**PRACTICAL** **HISTO**: anal canal **BIOCHEM**: OSPE practice **PHYSIO:** Group Discussion		**SDL**		**PHYSIOLOGY** Formative Assessment
20-12-2022 TUESDAY	**SURGERY**	**PHYSIOLOGY** Peptic ulcer		**PRACTICAL** **HISTO**: anal canal **BIOCHEM**: OSPE practice **PHYSIO:** Group Discussion		**SDL**		**BIOCHEMISTRY** QUIZ
21-12-2022 WEDNESDAY	**MEDICINE**	**PATHO**		**PRACTICAL** **HISTO**: anal canal **BIOCHEM**: OSPE practice **PHYSIO:** Group Discussion		**SDL**		**PHYSIOLOGY** OSPE Practice-I
22-12-2022 THURSDAY	**BIOCHEMISTRY** Nutrition 2	**ANATOMY** LRC SPOTTING		**PHYSIOLOGY** Vomiting & Diarrhea		**SDL**		**CBL**

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

23-12-2022 FRIDAY	**GIT MODULE EXAM**		**GIT MODULE EXAM**		**GIT MODULE EXAM**

REFERENCE BOOKS AND OTHER READING RESOURCES:

Gross Anatomy	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.
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. **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).

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.

❖ **Best Choice Questions (BCQs)** also known as 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.

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

❖ **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.

BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S.
GASTROINTESTINAL TRACT (GIT) MODULE GUIDE 2022

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