



OFFICE OF THE PROFESSOR OF ANATOMY DEPT. KEMU LHR.

2nd Year M.B.B.S 2015 - 2016

Detailed Schedule GIT Module

Sr.#	Time	Department	Course Content	Learning Outcome	Recommended Books	Duration / Teaching Methodology
WEEK 1 (DAY 1) 16-11-2015						
	08:00 - 09:00	Physiology	Gastrointestinal hormones neural & hormonal regulation	Student should be able to Describe the regulation of gastrointestinal system	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Histology	General plan of microscopic anatomy of GIT	Student should be able to <ul style="list-style-type: none"> Enumerate the layers of gastro intestinal tract Identify the type of tissues present in these layers Correlate the changes in mucosa with function of various parts 	<ul style="list-style-type: none"> Basic histology by Junqueira 12th ed Histology by Laiq Hussain Histology a Text And Atlas by Michael H. Ross 6th edition	Lecture 1 hr
	10:00 - 10:30	Break				
	10:30 - 12:00	Histology	Lip	Student should be able to draw and identify slide of lip under the light microscope	Difiores Atlas of histology	Practical 1 ½ hrs
	12:00 - 01:00	Anatomy Gross DEMO	Introduction to general topography and divisions of abdomen	Student should be able to <ul style="list-style-type: none"> Mark the planes dividing the abdomen into nine quadrants Identify the parts of GIT Lying in the various quadrants Cutaneous nerve (dermatomes) vessels and lymphatics of GIT Have an understanding of referred pain 	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	1 hour
	01:00 - 02:00		Dissection	Anterior Abdomen wall		1 hour
	Day 2 17-11-2015					
	08:00 - 09:00	Anatomy Gross DEMO	Facia and Muscles of Anterior abdominal wall Hernias of anterior abdominal wall	Student should be able to <ul style="list-style-type: none"> Enumerate facia of antreolaerateral abdominal wall Name the subdivision of subcutaneous tissue of lower abdominal wall Give clinical significance of facia and facial spaces 	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	1 hr
	09:00 - 10:00	Histology	Microscopic anatomy of oral cavity	Student should be able to <ul style="list-style-type: none"> Describe the mucosa of oral cavity Differentiate between mucosa of different parts and correlate them with their function Name, identify histological features and give functions of 	<ul style="list-style-type: none"> Basic histology by Junqueira 12th ed Histology by Laiq Hussain Histology a Text And Atlas by Michael H. Ross 6th edition	1 hr
	10:00 - 10:30	Break				



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	10:30 - 12:00	Histology	Microscopic Anatomy of Tongue	Student should be able to • Identify the various tongue papillae & Correlate their appearance with structure Identify the taste buds and draw them	Difiores Atlas of histology	1 hr
	12:00 - 01:00	Anatomy Dissection	Facia and Muscles of Anterior abdominal wall			1 hr
	01:00 - 02:00	Surgery	Abdominal incisions	Student should be able to • Enumerate advantages and disadvantages of longitudinal, oblique and transverse incisions • Identify high risk incisions Incisional hernias		
Day 3 18-11-2015						
	08:00 - 09:00	Physiology	Composition and PH of saliva Functions of saliva Immunity Starch digestion by salivary amylase lubrication, speech,	Student should be able to • List the constituents of saliva and its functions • Describe the control of salivary gland secretion	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Histology	Microscopic anatomy of salivary glands	Student should be able to • Define exocrine glands • Differentiate between stroma parenchyma and duct system of parotid submandibular and sublingual glands Discuss the electron microscopic features of serous and mucous	• Basic histology by Junqueira 12th ed • Histology by Laiq Hussain Histology a Text And Atlas by Michael H. Ross 6th edition	Lecture 1 hr
	10:00 - 10:30	Break				
	10:30 - 12:00	Histology	Microscopic anatomy of salivary glands	Students should be able to • Identify and draw parotid submandibular and sub lingual glands Identify and draw intercalated striated and interlobular ducts through their epithelial linings and location	Difiores Atlas of histology	Practical 1 ½ hr



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	12:00 - 02:00	Biochemistry	Composition of saliva	To determine the organic & inorganic constituents of saliva		2 hr
	Day 4 19-11-15					
	08:00 - 09:00	Anatomy Gross Demo	Inguinal canal its location ,boundaries and contents	Students should be able to demonstrate on dissection <ul style="list-style-type: none"> • Superficial and deep inguinal rings • Structures forming boundaries of the inguinal canal • Contents of inguinal canal and coverings of spermatic cord Define hydrocele of cord	Cunnighams manual of practical anatomy	1 hr
	09:00 - 10:00	Histology	Microscopic Anatomy of esophagus & stomach (I)	Student should be able to <ul style="list-style-type: none"> • Describe the microscopic anatomy of esophagus & correlate it with function • Differentiate between upper middle & lower third of esophagus 	<ul style="list-style-type: none"> • Basic histology by Junqueira 12th ed • Histology by Laiq Hussain Histology a Text And Atlas by Michael H. Ross 6th edition	Lecture 1 hr
	10:00 - 10:30	Break				
	10:30 - 11:30	Physiology	Deglutition reflex	Describe the oral pharyngeal and esophageal phases of deglutition reflex	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr



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	11:30 - 12:30	Physiology	Factors contributing to lower esophageal competence Factors that prevent gastro esophageal reflux List the causes of dysphgia	<ul style="list-style-type: none"> Describe the competence of lower esophageal junction Define dysphagia and explain its pathophysiology	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	1 hr
	12:30 - 01:15	Anatomy Gross Demo	Testes, Epidydmis			45 Min
	01:15 - 02:00	Medicine	Dysphagia	Enumerate possible diseases leding to dysphagia Discriminate among clinical presentation of these disease Understand possible mechanism of developing dysphagia ☐		45 Min
	Day 5 20-11-2015					
	8:00 - 10:00	Dissecton DH	Inguinal canal its location ,boundaries and contents		Cunnighams manual of practical anatomy	1 hr
	10:00 - 11:00	Embryology	Development of intraembryonic celomic and peritoneal cavity.	Student should be able to <ul style="list-style-type: none"> Describe the formation of peritoneal cavity Formation of greater and lesser sacs Define intraperitoneal and retro peritoneal structures Define and give extent of dorsal and ventral mesogstrium and	Developing human by Moore & Persaud Langmans medical embryology	1 hr



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	11:00 - 12:00	Surgery	Direct & indirect inguinal hernias	Students should be able to Apply his knowledge of anatomy to understand the <ul style="list-style-type: none"> • Causes of inguinal hernias • Differentiate between direct and indirect inguinal hernias Complications associated with hernias		Lecture 1 hr
	Day 6 21-11-2015					
	08:00 - 09:00	Gross Anatomy	Peritoneum 1	Student should be able to <ul style="list-style-type: none"> • Define visceral and parietal layers of peritoneum and peritoneal cavity • Draw Vertical disposition of abdominal and pelvic peritoneum • Define omentum and give formation Greater and lesser sacs 	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	Seminar 1 hr
	09:00 - 10:00	Embryology	Formation of gut tube	Student should be able to <ul style="list-style-type: none"> • Recall Types and mechanism of folding • Formation of foregut mid gut and hind gut and their derivatives as a result of folding • Blood supply of primitive gut from dorsal aorta 	Developing human by Moore & Persaud Langmans medical embryology	Lecture 1 hr
	10:00 - 10:30	Break				
	10:30 - 11:30	Histology	Microscopic anatomy of stomach II Gland & Cells			Lecture 1 hr



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	11:30 - 01:00	Histology	Microscopic anatomy of esophagus	Identify, draw and label the light microscopic structure of esophagus	Difiores Atlas of histology	1 hr 30 min
	01:00 - 02:00	Dissecton DH	Opening of abdominal cavity		Cunnighams manual of practical anatomy	1 hr
	Week 2 Day 1 23-11-2015					
	08:00 - 09:00	Gross Anatomy	Peritoneum 2	Student should be able to <ul style="list-style-type: none"> • Draw horizontal disposition of peritoneum • Division of abdominal cavity into supracolic and infracolic compartments • Formation of linorenal and gastro splenic ligaments 	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	1 hr
	09:00 - 10:00	Embryology	Development of stomach	Student should be able to <ul style="list-style-type: none"> • Correlate the development of stomach from foregut with its blood supply • Rotations of stomach and their effect on nerve supply and peritoneal attachments 	Developing human by Moore & Persaud Langmans medical embryology	1 hr
	10:00 - 10:30	Break				



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	10:30 - 12:00	Dissecton DH	Opening of abdominal cavity		Cunnighams manual of practical anatomy	1 hr
	12:00 - 02:00	Physiology	Secretion endocrines Outline the consequences of gastrectomy in relation to the functions of stomach Early and late dumping syndromes	List the main functions of stomach and describe the complications of gastrectomy		Tutorial 2 hr
	Day 2 24-11-15					
	08:00 - 09:00	Gross Anatomy	Stomach position, parts and relations Blood and nerve supply and lymphatic drainage	Student should be able to parts of esophagus blood supply, nerve supply and constriction • Mark surface anatomy, locate position and name parts of stomach	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	Small group demonstration 1 hr
	09:00 - 10:00	Histology	Gastro esophagal Junction Small intestine			1 hr
	10:00 - 10:30	Break				



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	10:30 - 11:30	Physiology	Constituents of gastric juice HCL, Intrinsic factor, mucous, Cell type, the mechanism regulation of gastric acid secretion Factors that affect gastric acid	list the constituents of gastric juice describe the mechanism of secretion of HCL	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	11:30 - 12:30	Physiology	Events that occur following entry of bolus of food into the stomach Receptive relaxation Peristalsis Mechanism of gastric emptying	Describe gastric motility, emptying and its regulation	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	1 HR
	12:30 - 02:00	Physiology	Factors that maintain the barrier and disrupt the barrier leading to peptic ulcer. The role of helicobacter pylori and non steroidal anti-inflammatory drugs in	List the constituents of gastric juice and function Describe the mechanism of secretion of HCL	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Tutorial 1 hr
	Day 3 25-11-15					
	08:00 - 09:00	Medicine	Clinical presentation of acid peptic disease	Develop differential diagnosis of epigastric pain Understand basic approach to patient with epigastric pain Identify endoscopic images of common disease leading to epigastric pain		1 hr
	09:00 - 10:00	Embryology	Development of spleen	Student should be able to Describe • formation of spleen in dorsal mesogastrium • Histogenesis of spleen formation of linorenal and gastrosplenic ligaments and apply this knowledge to understand the contents of these ligaments ☐		



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	10:00 - 10:30	Break				
	10:30 - 11:00	Surgery	Gastric function test			Movie 30 min
	11:00 - 12:00	Physiology	Causes of vomiting neural chemical and psychic factors Mechanism and consequences of vomiting Fluid and electrolyte imbalance	Define vomiting list its causes Explain the mechanism and consequences of vomiting	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1hr
	12:00 - 12:30	Pharmacology	Drugs used in the treatment of acid peptic disease	Student should be able to enlist drugs used for acid peptic diseases and understand their mechanism of action	Basic & clinical pharmacology Pharmacology, Lippincott illustrated review	Lecture 30 min
	12:30 - 02:00	Dissection DH				
	Day 4 26-11-2015					



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	08:00 - 09:00	Physiology	List the constituents of pancreatic juice Enzymes HCO ₃ , Pancreatic enzymes Trypsin Chymo trypsin	List the functions of exocrine pancreas Outline the regulation of pancreatic secretion ☐	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Embryology	derivatives of mid gut	Student should be able to <ul style="list-style-type: none"> • Give extent and name derivatives of midgut • Give development of duodenum and describe how it becomes a retro peritoneal organ • Explain the blood and nerve supply of duodenum on the basis 	Developing human by Moore & persaud Langmans medical embryology	1 hr
	10:00 - 10:30	Break				
	10:30 - 12:00	Anatomy	Parts of small intestine Parts of duodenum & their Relations Location, Parts and relations of pancreas	Enblock dissection of duodenum pancreas and spleen. On the dissected specimen student should be able to demonstrate <ul style="list-style-type: none"> • Parts of duodenum • Head of pancreas in duodenal curve and its posterior relations including the formation of portal vein 	Cunnighams manual of practical anatomy	
	12:00 - 12:30	Pharmacology	Emetic and antemetic drugs	Student should be able to Apply their knowledge of physiology to understand the action of drugs that affect gastrointestinal motility ☐	Basic & clinical pharmacology Pharmacology, Lippincott illustrated review	30 min
	12:30 - 02:00	Histology	Microscopic study of stomach	Student should be able to the light microscopic structure of stomach, differentiate between mucosa of cardiac, fundas, and pyloric end of stomach name surface cells & differentiate them from other mucous	<ul style="list-style-type: none"> • Basic histology by Junqueira 12th ed • Medical Histology by Laiq Hussain Histology a Text And Atlas by	Lecture 1 hr



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	Day 5 27-11-2015					
	08:00 - 09:00	Gross Anatomy	large Insustine	Student should be able to <ul style="list-style-type: none"> • Name Parts of large intestine • Describe relations of ceacum • Transverse mesocolon and its attachment and • Junction of mid gut and hind gut 		
	09:00 - 10:00	Histology	Small Insustine	Student should be able to describe changes in mucousa in small intestine name cells present in crypts with their functions describe structure of peyer patch their location & cells presents in the over lime epithelium		
	10:00 - 12:00	Dissecton DH	Insustine (Small & large)			
	Day 6 28-11-2015					
	8:00 - 09:00	Physiology	Liver synthetic functions plasma proteins clotting factors Vit. B12, Storage, detoxification. Fate of constituents of chylomicrons in the hepatocyte HDL, LDL	List the main functions of liver & outline the consequences of derangement of liver	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Histology	Microscopic anatomy of gall bladder	Student should be to identify and draw slide of gall bladder under the light microscope	Difiores Atlas of histology	Lecture 1hr



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	10:00 - 10:30	Break				
	10:30 - 11:30	Physiology	Constituents of bile Formation and mechanism of secretion of bile in hepatocytes	Describe the formation & secretion of bile	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	11:30 - 12:00	Surgery	Gall stones infections of hepatobiliary apparatus			
	12:00 - 12:30	Pharmacology	Hepatotoxic drugs Function of cytochrome P ₄₅₀	Student should be able to Enumerate hepatotoxic drugs Understand the mechanism of toxicity and relation to cytochrome p 450 system	Basic and clinical pharmacology (Betram G. Katzun) Pharmacology, Lippincots illustrated review.	Lecture 30 min
	12:30 - 02:00	Dissecton DH	Extrahepatic biliary apparatus	Parts and relations of gall bladder Formation of common hepatic cystic and common bile ducts		
	Week 3 Day 1 30-11-15					



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	08:00 - 09:00	Physiology	Transport and storage of bile in the duct system mechanism of gall stone formation Super saturation of bile excess bile pigments ☐	Transport of bile disorders of bile formation and secretion	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Histology	Rectum, Anal Cannal			
	10:00 - 10:30	Break				
	10:30 - 11:30	Embryology	Development of liver gall bladder	Student should be able to identify <ul style="list-style-type: none"> • Hepatic diverticulum arisig from the duodenum • Division into two parts Role of septum transversum	Developing human by Moore & persaud Langmans medical embryology	Lecture 1 hr
	11:30 - 01:00	SubStage I				
	01:00 - 02:00	Medicine	Jaundice	Identify jaundice on clinical examination Understand different mechanism of developing jaundice Enumerate common disease leading to jaundice ☐		PBL 1 hr



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	Day 2 01-12-2015					
	08:00 - 09:00	Biochemistry	Digestion and absorption of carbohydrates	Student should be able to describe the concerned enzyme and their mechanism of absorption	Essentials of medical biochemistry vol 1 8th edition	1 hr
	09:00 - 10:00	Histology				
	10:00 - 10:30	Break				
	10:30 - 12:00	Histology	Small intestine	DUODENUM / jejunm		Practical 1 ½ hr
	12:00 - 01:00	Physiology	Movements of small intestine	Describe the mechanism of peristalsis, anti peristalsis and segmentation	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr



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	01:00 - 02:00	Biochemistry	Digestion and absorption of carbohydrates	Student should be able to describe the concerned enzyme and their mechanism of absorption	Essentials of medical biochemistry vol 1 8th edition	Lecture 1 hr
	Day 3 02-12-15					
	08:00 - 09:00	Biochemistry	Digestion and absorption of fats	Student should be able to describe the concerned enzyme and their mechanism of absorption	Essentials of medical biochemistry vol 1 8th edition	Lecture 1 hr
	09:00 - 10:00	Embryology	Development of small intestine	Formation of midgut loop Physiological herniation Rotation and return of loop	Developing human by Moore & persaud Langmans medical embryology	Lecture 1 hr
	10:00 - 10:30	Break				
	10:30 - 11:00	Biochemistry	Digestion and absorption of proteins	Student should be able to describe the concerned enzyme and their mechanism of absorption	Essentials of medical biochemistry vol 1 8th edition	Lecture 1 hr



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	11:00 - 12:00	Biochemistry	Digestion and absorption of proteins	Student should be able to describe the concerned enzyme and their mechanism of absorption	Essentials of medical biochemistry vol 1 8th edition	Lecture 1 hr
	12:00 - 01:00	Biochemistry				
	01:00 - 02:00	Medicine	Malabsorption	<ul style="list-style-type: none"> • Comprehend different mechanism of malabsorption Enumerate common disease leading to malabsorption ☐ 		1hr
	Day 4 03-12-15					
	08:00 - 09:00	Gross Demonation	Sigmoid Colon & Rectum			
	09:00 - 10:00	Histology	Microscopic anatomy of Large intestine and appendix	Student should be able to <ul style="list-style-type: none"> • Enumerate changes in the mucosa of large intestine • Define appendices epiploicae, scculations, haustrations and taeniae coli • Identify slide of appendix ☐ 	<ul style="list-style-type: none"> • Basic histology by Junqueira 12th ed • Medical Histology by Laiq Hussain Histology a Text And Atlas by 	Lecture I hr



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	10:00 - 10:30	Break				
	10:30 - 12:00	Histology	Microscopic anatomy of rectum and appendix	Student should be able to Identify the slide of large intestine (rectum) and differentiate it from slides of small intestine and stomach Identify slide of appendix and enumerate its characteristic features	Difiores Atlas of histology	Practical 2 hr
	12:00 - 02:00	Dissecton DH				
	Day 5 04-12-2015					
	08:00 - 09:00	Gross Anatomy	Anal canal gross and applied anatomy	Student should be able to • Enumerate differences between upper 2/3 & lower 1/3 of anal canal • Define anal columns valves and sinuses • Define white line and pectinate line	Clinically oriented Anatomy by KLM Snells anatomy Student Gray	Lecture 1 hr
	09:00 - 10:00	Embroylogy	Derivatives of hind gut	Student should be able to • Define cloaca, proctodeum and urorectal septum • Name the divisions of cloaca • Describe the Formation of anal canal • Name divisions of cloacal membranes	Developing human by Moore & persaud Langmans medical embryology	Lecture 1 hr



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	10:00 - 12:00	Dissecton DH	Liver			2 hrs
	Day 6 05-12-15					
	08:00 - 09:00	Physiology	Storage absorption of water electrolytes motility Nerve supply of internal and external anal sphinctersphysiologic basis of	Describe the function of large intestine and mechanism of defecation	Text book of medical physiology by Guyton & Hall Medical physiology by Ganong BRS Series	Lecture 1 hr
	09:00 - 10:00	Gross Anatomy	Pancreas & Spleen	Describe the function of large intestine and mechanism of defecation		
	10:00 - 10:30	Break				
	10:30 - 11:15	Medicine	Diarrhea	Understand different types of diarrhea Differentiate small and large bowel diarrhea Enumerate common diseases leading to large bowel diarrhea ☐		45 mins



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	11:15 - 12:00	Pathology	Role of microbiotas in health and diseases	Student should be able to understand the role played by microbiotas in normal metabolism, immunity and diseases like obesity diabetes mellitus and irritable bowel syndrome	Robins pathology	1 hr
	12:00 - 12:30	Pharmacology	Purgatives and anti diarrheal			
	12:30 - 01:00	Surgery	Constipation			
	01:00 - 02:00	Community Medicine/ GIT	Prevention of GIT diseases	The students should be able to: Describe levels of preventions in GIT epidemics	Social and Preventive Medicine J.E. Park hr L	Lecture 1 hr
	Week 4 Day 1 07-12-15					
	08:00 - 09:00	Gross Anatomy	Abdominal aorta & IVC			



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	09:00 - 10:00	Behavioral sciences	Sumatiform disorders and irritable bowel syndrome			
	10:00 - 10:30	Break				
	10:30 - 11:30	Radiology	Barium meal and enema Ultrasound examination ☐			
	11:30 - 01:00	Histology	Colon & Rectum			
	01:00 - 02:00	Gross Anatomy	Portosystemic Anstomosis & lymphatices of Abdomen			