

**Phase 1 - Monthly Timetable – November 2019**

Week	Date	Day	8-9 am	9-10 am	10-11am	11-12 pm	12- 1 pm	1-2 pm	2-3 pm	3-4 pm
Week 7	01-Nov	Fri	Lipid Chemistry (SDL) BI 4.1	Lymphoid Tissue AN 70.2 Lecture KJ	Blood groups and clinical importance of blood grouping. PY2.9 (Lecture)	Action of neuro-muscular blocking agents PY3.5 (Lecture)	LUNCH BREAK		Femur SGD 14.1-3	Front of thigh AN 15.1,15.2,15.4 DOAP
	02-Nov	Sat	Embryology 3rd week	Anemia PY 2.5 (Lecture)	Medial side of thigh AN 15.2,15.5 Lecture	Hip bone AN 14.1,2 SGD		Front of thigh AN 15.1,15.2,15.4 DOAP		
	03-Nov	Sunday								
Week 8	04-Nov	Mon	Carbohydrate Metabolism (Lectures) BI 3.4	Smooth Muscle-Contraction & Properties PY 3.9,3.12 (Lecture)	Lymphoid tissue AN 70.1,2 DOAP	OSPE (DOAP) BI 11.3, 11.4 Cell Biology BI 1.1, Digestion and Absorption of Carbohydrates BI 3.2, BI 3.3(SGD)	LUNCH BREAK	Venous drainage of lower limb AN 15.1,20.3,20.5	Medial side of thigh 15.2,15.5 DOAP	
					Estimate blood groups PY 2.11 (DOAP, SGD)					
	05-Nov	Tue	Blood banking and transfusion. PY2.9 (Lecture)	Protein Chemistry (SDL) BI 5.1	Lymphoid tissue AN 70.1,2 DOAP		Gluteal region AN 16.1-3 Lecture	Medial side of thigh 15.2,15.5 DOAP		

				Estimate blood groups PY 2.11 (DOAP, SGD)
				OSPE (DOAP) BI 11.3, 11.4 Cell Biology BI 1.1, Digestion and Absorption of Carbohydrates BI 3.2, BI 3.3(SGD)
06-Nov	Wed	Hip joint AN 17.1-3 Lecture	Structure and functions of digestive system PY 4.1 (Lecture)	Lymphoid tissue AN 70.1,2 DOAP
				Early clinical exposure
				OSPE (DOAP) BI 11.3, 11.4 Cell Biology BI 1.1, Digestion and Absorption of Carbohydrates BI 3.2, BI 3.3(SGD)
07-Nov	Thu	Pathophysiology of myasthenia gravis PY3.6 (Lecture)	Water Soluble Vitamins (Lectures) BI 6.5	Lymphoid tissue AN 70.1,2 DOAP
				Early clinical exposure
				OSPE (DOAP) BI 11.3, 11.4 Cell Biology BI 1.1, Digestion and Absorption of Carbohydrates BI 3.2, BI 3.3(SGD)

Salivary glands AN 70.1 Lecture KJ		Gluteal region disarticulation 16.1-3 DOAP	
CM5.1) Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions			

	08-Nov	Fri	Calcium (Lectures) BI 6.9	Embryology 4 to 8 weeks Lecture	Fate of RBC & Hemoglobin. Jaundice PY2.5 (Lecture)	Autonomic nervous system PY 4.6, 10.1, 10.5 (Lecture)	Gluteal region 16.1-3 DOAP
	09-Nov	Second Saturday					
	10-Nov	Sunday					
Week 9	11-Nov	Mon	Carbohydrate Metabolism (Lectures) BI 3.4, BI 3.7	Composition, mechanism of secretion, saliva PY4.2 (Lecture)	Salivary glands AN 70.1 DOAP	LUNCH BREAK	Gluteal region disarticulation 16.1-3 DOAP Start back of thigh AN 16.4,5 DOAP
					Preparation of peripheral smear PY 2.11 (DOAP, SGD)		
					Test on Urine Analysis		
	12-Nov	Tue	Functions, and regulation of saliva PY4.2 (Lecture)	Lipid Chemistry (Lectures) BI 4.1	Salivary glands AN 70.1 DOAP	LUNCH BREAK	Early clinical exposure - hip joint/ Orthopedics
					Preparation of peripheral smear PY 2.11 (DOAP, SGD)		
					Test on Urine Analysis		
	13-Nov	Wed	Knee joint AN 18.4-7 Lecture	Stomach PY 4.1, 4.2 (Lecture)	Salivary glands AN 70.1 DOAP	LUNCH BREAK	Popliteal fossa AN 16,6 DOAP
					Differential Leukocyte count PY 2.11 (DOAP, SGD)		
					Test on Urine Analysis		
	14-Nov	Thu	Muscular dystrophies PY 3.13 (Lecture)	Protein Chemistry (Lectures) BI 5.1	Salivary glands AN 70.1 DOAP	LUNCH BREAK	CM5.3) Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management CM5.7) Describe food hygiene
					Differential Leukocyte count PY 2.11 (DOAP, SGD)		
					Test on Urine Analysis		

	15-Nov	Fri	Calcium (Lectures) BI 6.9, BI 6.10	Skin AN 72.1 Lecture KJ	Stomach PY 4.2 (Lecture)	Composition, mechanism of secretion of pancreatic juice. PY 4.2 (Lecture)		Popliteal fossa AN 16,6 DOAP	Knee joint dissection AN 18.4-7 DOAP			
	16-Nov	Sat	Placenta AN 80.1-7 Lecture AD	Deglutition PY 4.3, 4.9 (Lecture)	<b>Short Test 2</b> (NMJ, Muscle Physiology, Hemostasis, Anemia & Jaundice, Saliva)		Tibia /patella AN14.1-3 SGD	Front of leg and dorum of foot AN 18.1 -3 DOAP				
	17-Nov	Sunday										
<b>Week 10</b>	18-Nov	Mon	Carbohydrate Metabolism (Lectures) BI 3.6	Functions and regulation of pancreatic juice. Steatorrhoea. PY 4.2 (Lectures)	Skin AN 72.1 DOAP		Fibula AN 14.1-2 SGD	Front of leg and dorum of foot AN 18.1 -3 DOAP				
					Differential Leukocyte Count PY 2.11 (Revision) (DOAP, SGD)							
			Colorimetry (SGD) BI 11.6, Protein Chemistry BI 5.1 and Calcium BI 6.9, BI 6.10(SGD)	Skin AN 72.1 DOAP		LUNCH BREAK						
	19-Nov	Tue		Structure and functions of liver and gall bladder. PY 4.7 (Lectures)	Lipid Chemistry (Lectures) BI 4.1					Differential Leukocyte Count PY 2.11 (Revision) (DOAP, SGD)		Back of leg AN 19.1-4 DOAP
			Colorimetry (SGD) BI 11.6, Protein Chemistry BI 5.1 and Calcium BI 6.9, BI 6.10(SGD)									
20-Nov	Wed	Sole of foot AN 19.5-7 Lecture	Stomach PY 4.9 (Lectures)	Skin AN 72.1 DOAP		Back of leg AN 19.1-4 DOAP Start sole of foot an 19.5-7 DOAP						
				Simple Muscle Twitch PY 3.18 (DOAP, SGD)								
				Colorimetry (SGD) BI 11.6, Protein Chemistry BI 5.1 and Calcium BI 6.9, BI 6.10(SGD)								
		Thu			Skin AN 72.1 DOAP							

	21-Nov		Movements of the stomach PY 4.3, 4.9 (Lectures)	Protein Chemistry (Lectures) BI 5.1	Simple Muscle Twitch PY 3.18 (DOAP, SGD)		CM5.7)Describe food hygiene CM9.1)Define and describe the principles of Demography, Demographic cycle, Vital statistics	
	22-Nov	Fri	Copper (Lectures) BI 6.9, BI 6.10	Teratology and pre natal diagnosis AN 79.6,81.1-3 Lecture	Structure and functions of gall bladder. PY 4.7 (Lectures)	Composition, regulation of secretion, functions of intestinal juice and functins of small intestine. PY 4.2 (Lectures)	Articulated foot AN 14.4 SGD Sole of foot AN 19.5-7 DOAP	
	23-Nov	Sat	Arches of foot AN 19.5-7 Lecture	Large intestine PY 4.1, 4.4 (Lectures)	Test - Lipid Chemistry, Protein Chemistry, Water Soluble Vitamins, Calcium, Carbohydrate Metabolism		Respiratory system AN 25.1 Lecture KJ Sole of foot AN 19.5-7 DOAP	
	24-Nov	Sunday						
Week 11	25-Nov	Mon	Carbohydrate Metabolism (Lectures) BI 3.6, BI 3.7	Pancreatic exocrine function tests & liver function tests PY 4.8 (Lectures)	Respiratory system AN 25.1 DOAP	LUNCH BREAK	Joints of foot AN 20.1,2 Lecture Surface and radiological anatomy of limbs AN 13.5,13.6,13.7,20.6-9 Lecture	
					Effect of 2 successive stimuli, Fatigue PY 3.18 (DOAP, SGD)			
	26-Nov	Tue		Lipid Chemistry	Estimation of Glucose (DOAP) BI 11.21 Glycolysis and Vitamin C (SGD) BI 3.4, BI 3.7, BI 6.5		Part Completion Exam - Lower Limb	

		Movements of the small intestine PY 4.3, 4.9 (Lectures)	(Lectures) BI 4.1	Effect of 2 successive stimuli, Fatigue PY 3.18 (DOAP, SGD)	
				Estimation of Glucose (DOAP) BI 11.21 Glycolysis and Vitamin C (SGD) BI 3.4, BI 3.7, BI 6.5	
27-Nov	Wed	Introduction to thorax AN 21.3-7	Movements of the large intestine PY 4.3, 4.9 (Lectures)	Respiratory system AN 25.1 DOAP	
				Tetanus , Afterload & Preload PY 3.18 (DOAP, SGD)	
				Estimation of Glucose (DOAP) BI 11.21 Glycolysis and Vitamin C (SGD) BI 3.4, BI 3.7, BI 6.5	
28-Nov	Thu	Cardiac muscle PY 3.7, 5.2 (Lecture)	Nucleotide Chemistry (Lectures) BI 6.2	Respiratory system AN 25.1 DOAP	
				Tetanus , Afterload & Preload PY 3.18 (DOAP, SGD)	
				Estimation of Glucose (DOAP) BI 11.21 Glycolysis and Vitamin C (SGD) BI 3.4, BI 3.7, BI 6.5	
29-Nov	Fri	Iron (Lectures) BI 6.9	CVS embryo	Cardiac muscle PY 3.8, 5.2, 5.4 (Lecture)	Digestion and absorption PY 4.4
30-Nov	Sat	Posterior mediastinum AN 23.1-7	Functional anatomy of respiratory tract PY 6.1 (Lectures)	SDL	

Sternum and ribs AN 21.1,2 SGD	Thoracic wall AN 21.3-7 DOAP	
CM12.3) Describe the prevention of health problems of aged population CM12.2) Describe health problems of aged population CM12.1) Define and describe the concept of Geriatric services		
	Mediastinum AN 21.11,23.1-7 Lecture	GIT (Histo) Lecture
Mediastinum AN 21.11,23.1-7 DOAP		

**SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA**

**DEPARTMENT OF ANATOMY**

**FIRST YEAR MBBS BATCH 2019**

**THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF NOVEMBER 2019**

Date	Time	Topic	SLOs
01-11-2019	9 -10 am	LYMPHOID TISSUE AN 70.2 LECTURE KJ	List the primary and secondary lymphoid organs and differentiate between them Describe the histological features of lymph node, spleen, thymus and tonsil .Correlate the Histological structure of lymph node, spleen, thymus Distinguish between open and closed circulation of spleen. Identify the importance of Mucosa associated lymphatic tissue (MALT) in the immune function of the body.
01-11-2019	1-2pm	FEMUR SGD 14.1-3	Identify the given bone, its side, important features & keep it in anatomical position Identify & describe joints formed by the given bone Describe the importance of ossification of lower end of femur & upper end of tibia Identify and name various bones in the articulated foot with individual muscle attachment
01-11-2019 AND 2-10-2019	3-4 Pm 1-4PM	FRONT OF THIGH AN 15.1,15.2,15.4 DOAP	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh Describe and demonstrate major muscles with their attachment, nerve supply and actions Explain anatomical basis of Psoas abscess & Femoral hernia
02-10-2019	8-9 AM	EMBRYOLOGY AN 79.1-4 LECTURE	Describe the formation & fate of the primitive streak Describe formation & fate of notochord Describe the process of neurulation Describe the development of somites and intra-embryonic coelom
02-11-2019	10-11 AM	MEDIAL SIDE OF THIGH AN 15.2,15.5 LECTURE	Describe and demonstrate major muscles with their attachment, nerve supply and actions Describe and demonstrate adductor canal with its content
02-11-2019	11-12 AM	HIP BONE AN 14.1,2 SGD	Identify the given bone, its side, important features & keep it in anatomical position Identify & describe joints formed by the given bone

02-11-2019	1-4PM	FRONT OF THIGH AN 15.1,15.2,15.4 DOAP	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh Describe and demonstrate major muscles with their attachment, nerve supply and action Describe and demonstrate boundaries, floor, roof and contents of femoral triangle Explain anatomical basis of Psoas abscess & Femoral hernia
1-2019 to 07-11-2019	10-12 am	LYMPHOID TISSUE AN 70.1,2 DOAP	Describe the histological features of lymph node, spleen, thymus and tonsil .Identify lymph node, spleen, thymus and tonsil under the microscope correctly Draw a neat labelled diagram of. lymph node, spleen, thymus and tonsil .
04-11-2019	1-2 pm	VENOUS DRAINAGE OF LOWER LIMB AN 15.1,20.3,20.5	Describe venous drainage of lower limb Explain the anatomical basis of varicose veins and deep vein thrombosis
03-11-2019 and 05-11-2019	2-4pm 1-4pm	MEDIAL SIDE OF THIGH 15.2,15.5 DOAP	Describe and demonstrate major muscles with their attachment, nerve supply and actions Describe and demonstrate adductor canal with its content
05-11-2019	2-3 PM	GLUTEAL REGION AN 16.1-3 LECTURE	Describe the attachments, nerve supply and actions of muscles in the Gluteal region Describe the origin, course, relations, branches and distribution of the superior & inferior gluteal nerves, sciatic nerve and other branches of the Lumbosacral plexus Describe location of the correct site for giving Intramuscular injections in the gluteus maximus and enumerate the clinical presentation of sciatic nerve injury due to an incorrect injection in a patient correctly Describe the causes, muscle affected and clinical presentation of a +ve Trendelenburg sign in a patient correctly
06-11-2019	8-9AM	HIP JOINT AN 17.1-3 LECTURE	Describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the hip joint Describe anatomical basis of complications of fracture neck of femur Describe dislocation of hip joint and surgical hip replacement



06-11-2019	1-2 PM	SALIVARY GLANDS AN 70.1 LECTURE KJ	Define gland and differentiate between exocrine and endocrine gland.  Classify exocrine glands based on number of cells, number of ducts and shape of secretory end piece, mode of secretion and nature of secretion. Describe the histological features of Serous Acini, Mucous Acini and Mixed acini with example. Distinguish between Serous Acini, Mucous Acini and Mixed acini with examples accurately.
19 08-11-2019 11-4PM	2-4PM	1-4P GLUTEAL REGION AN16.1-3 DOAP	Enumerate and identify all the structures under cover of gluteus maximus. Identify the nerves and vessels in the gluteal region correctly. Describe location of the correct site for giving Intramuscular injections in the gluteus maximus and enumerate the clinical presentation of sciatic nerve injury due to an incorrect injection in a patient correctly.
08-11-2019	9-10AM	EMBRYOLOG Y 4 TO 8 WEEKS AN 79.1-4 LECTURE	Describe the formation & fate of the primitive streak. Describe formation & fate of notochord. Describe the process of neurulation. Describe the development of somites and intra-embryonic coelom.
1-2019 TO 14-11	10-12AM	SALIVARY GLANDS AN 70.1 DOAP	Describe the histological features of Serous Acini, Mucous Acini and Mixed acini with example. Distinguish between Serous Acini, Mucous Acini and Mixed acini with examples accurately. Identify Serous Acini, Mucous Acini and Mixed acini under the microscope correctly. Draw a neat labelled diagram of Serous Acini, Mucous Acini and Mixed acini.
11-11-2019	1-4 PM	BACK OF THIGH AN 16.4,5 DOAP	Describe and demonstrate the hamstrings groups of muscles with their attachment, nerve supply and action. Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh.

13-11-2019	8-9 AM	KNEE JOINT AN 18.4-7 LECTURE	<p>Describe and demonstrate the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint</p> <p>Describe the type, articular surfaces, capsule, synovial membrane, ligaments of the knee joint</p> <p>Describe the relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint</p> <p>Demonstrate the ligaments, blood and nerve supply to the knee joint. Demonstrate the articular surfaces at the lower end of femur and upper end of tibia</p> <p>Explain the anatomical basis of locking and unlocking of the knee joint</p> <p>Describe the locking of the knee joint</p> <p>Describe knee joint injuries with its applied anatomy - Lecture</p>
13-11-2019	1-4PM	POPLITEAL FOSSA AN 16,6 DOAP	<p>Describe and demonstrate the hamstrings groups of muscles with their attachment, nerve supply and action</p> <p>Describe and demonstrate the origin, course, relations, branches (or tributaries), termination of important nerves and vessels on the back of thigh</p> <p>Describe and demonstrate the boundaries, roof, floor, contents and relations of popliteal fossa</p>
15-10-2019	9-10AM	SKIN AN 72.1 LECTURE KJ	<p>Differentiate between thick skin and thin skin correctly</p> <p>Describe the layers of the skin correctly</p> <p>List the appendages of integumentary system accurately</p> <p>Correlate the functions of the integumentary system with different layers</p>
15-10-2019	3-4PM	KNEE JOINT DISSECTION AN 18.4-7 DOAP	<p>Demonstrate the ligaments, blood and nerve supply to the knee joint. Demonstrate the articular surfaces at the lower end of femur and upper end of tibia</p> <p>Explain the anatomical basis of locking and unlocking of the knee joint</p> <p>Describe the type, articular surfaces, capsule, synovial membrane, ligaments of the knee joint</p> <p>Describe the relations, movements and muscles involved, blood and nerve supply, bursae around the knee joint</p>

16-11-2019	8-9 am	PLACENTA AN 80.1-7	<p>Describe formation of chorion, amnion, yolk sac, allantois and decidua</p> <p>Enumerate the function and fate of chorion, amnion, yolk sac, allantois and decidua.</p> <p>Describe formation of umbilical cord..</p> <p>Enumerate the contents, function and clinical correlations of Umbilical cord.</p> <p>Describe development of placenta and formation of chorionic villi.</p> <p>List out the differences in the composition of primary, secondary and tertiary villus.</p> <p>Describe the structure of a full term placenta.</p> <p>Enumerate the physiological functions of Placenta.</p> <p>Describe the constituents of placental barrier.</p> <p>Describe the foeto placental circulation.</p> <p>Describe the congenital anomalies of Placenta according to its shape and its abnormal attachment to uterus.</p> <p>Name the two types of twinning.</p> <p>Describe the embryologic basis of monozygotic and dizygotic twins.</p>
16-11-2019	1-2 pm	TIBIA /PATELLA AN14.1-3 SGDTIBIA /PATELLA AN14.1-3 SGD	<p>Identify the given bone, its side, important features &amp; keep it in anatomical position</p> <p>Identify the joints formed by the given bone</p> <p>describe joints formed by the given bone</p> <p>Describe the importance of ossification of lower end of femur &amp; upper end of tibia</p>
16-11-2019	2-4 pm	FRONT OF LEG AND DORUM OF FOOT AN 18.1 3 DOAP	<p>List the muscles of the anterior compartment of the leg</p> <p>Describe the attachments, nerve supply and action of the muscles of the anterior compartment</p> <p>Identify and show the attachments of muscles of the anterior compartment of the leg</p> <p>Describe origin course, relations, branches termination of important vessels and nerves of front of leg</p> <p>Demonstrate the origin course, relations, branches termination of important vessels and nerves of front of leg</p> <p>Describe the different kinds of foot drop due to injuries of sciatic / common peroneal / deep peroneal Nerves</p>

18/11/19- 21/11/19	10am-12pm	SKIN AN 72.1 DOAP	Describe the layers of the skin correctly Differentiate between thick skin and thin skin correctly List the appendages of integumentary system accurately Correlate the functions of the integumentary system with different layers Should be able to draw a neat labelled diagram of thick and thin skin
18-11-2019	1-2pm	FIBULA AN 14.1-2 SGD	Identify the given bone, its side, important features & keep it in anatomical position Identify the joints formed by the given bone describe joints formed by the given bone
18-11-2019	2-4pm	FRONT OF LEG AND DORUM OF FOOT AN 18.1 3 DOAP	List the muscles of the anterior compartment of the leg Describe the attachments, nerve supply and action of the muscles of the anterior compartment Identify and show the attachments of muscles of the anterior compartment of the leg *Tibia, fibula and articulated foot to be used as an added tool Describe origin course, relations, branches termination of important vessels and nerves of front of leg Demonstrate the origin course, relations, branches termination of important vessels and nerves of front of leg Describe the different kinds of foot drop due to injuries of sciatic / common peroneal / deep peroneal Nerves
19-11-2019	1-4pm	BACK OF LEG AN 19.1-4 DOAP	List the superficial and deep muscles of the back of leg Describe the superficial and deep muscles of the back of leg-attachments, nerve supply and action Identify the superficial and deep muscles of the back of leg Explain the concept of peripheral heart Explain the anatomical concept of rupture of calcaneal tendon List the important vessels and nerves of back of leg describe origin course, relations, branches termination of important vessels and nerves of back of leg Identify the important vessels and nerves of back of leg
20-11-2019	8-9am	SOLE OF FOOT AN 19.5- 7 LECTURE	List the muscles of the different layers of sole Describe the important muscles of sole-attachments, nerve supply and action List the important vessels and nerves of the sole describe origin course, relations, branches termination of important vessels and nerves of the sole Explain the anatomical basis of metatarsalgia and plantar fasciitis

20-11-2019	1-4pm	BACK OF LEG AN 19.1-4 DOAP START SOLE OF FOOT AN 19.5-7 DOAP	<p>List the superficial and deep muscles of the back of leg</p> <p>Describe the superficial and deep muscles of the back of leg-attachments, nerve supply and action</p> <p>Identify the superficial and deep muscles of the back of leg</p> <p>Explain the concept of peripheral heart</p> <p>Explain the anatomical concept of rupture of calcaneal tendon</p> <p>List the important vessels and nerves of back of leg</p> <p>describe origin course, relations, branches termination of important vessels and nerves of back of leg</p> <p>Identify the important vessels and nerves of back of leg</p> <p>Identify flexor retinaculum and structures beneath</p> <p>Describe the attachment of flexor retinaculum</p> <p>List the structures passing beneath the flexor retinaculum</p> <p>List the muscles of the different layers of sole</p> <p>Describe the important muscles of sole-attachments, nerve supply and action</p> <p>Identify the muscles of the sole</p> <p>List the important vessels and nerves of the sole</p> <p>describe origin course, relations, branches termination of important vessels and nerves of the sole</p> <p>Identify the important vessels and nerves of the sole</p> <p>Explain the anatomical basis of metatarsalgia and plantar fasciitis</p> <p>Identify plantar aponeurosis</p>
22-11-2019	9-10am	TERATOLOGY AND PRENATAL DIAGNOSIS AN79.6, 81.1-3 LECTURE	<p>Describe the diagnosis of pregnancy in first trimester and role of teratogens, alpha-fetoprotein</p> <p>Describe various methods of prenatal diagnosis</p> <p>Describe indications, process and disadvantages of amniocentesis</p> <p>Describe indications, process and disadvantages of chorion villus biopsy</p>
22-11-2019	2-3pm	ARTICULATED FOOT AN 14.4 SGD	<p>Identify and name various bones in the articulated foot with individual muscle attachment</p>
22-11-2019	3-4pm	SOLE OF FOOT AN 19.5-7 DOAP	<p>List the muscles of the different layers of sole</p> <p>Describe the important muscles of sole-attachments, nerve supply and action</p> <p>Identify the muscles of the sole</p> <p>List the important vessels and nerves of the sole</p> <p>describe origin course, relations, branches termination of important vessels and nerves of the sole</p> <p>Identify the important vessels and nerves of the sole</p> <p>Explain the anatomical basis of metatarsalgia and plantar fasciitis</p> <p>Identify plantar aponeurosis</p>

23-11-2019	8-9am	ARCHES OF FOOT AN 19.5-7 LECTURE	List and classify the arches of foot Describe the arches-bones, pillars,ends, Describe the factors maintaining the arches and importance of arches Explain the anatomical basis of club foot and flat foot
23-11-2019	1-2pm	RESPIRATORY SYSTEM AN 25.1 LECTURE	describe the microanatomy of trachea and lung draw and label the histological picture of trachea and lung
23-11-2019	2-4pm	SOLE OF FOOT AN 19.5-7 DOAP	List the muscles of the different layers of sole Describe the important muscles of sole-attachments, nerve supply and action Identify the muscles of the sole List the important vessels and nerves of the sole describe origin course, relations, branches termination of important vessels and nerves of the sole Identify the important vessels and nerves of the sole Explain the anatomical basis of metatarsalgia and plantar fasciitis Identify plantar aponeurosis
25/11/19-8/11/19	10am-12pm	RESPIRATORY SYSTEM AN 25.1 DOAP	Identify the slide of trachea and lung draw and label the histological picture of trachea and lung
25-11-2019	1-2pm	JOINTS OF FOOT AN 20.1,2 LECTURE	List and describe the type, articular surfaces and the ligaments of 3 tibiofibular joints correctly. Describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, blood and nerve supply of ankle joint correctly Demonstrate the the movements of dorsiflexion and plantar flexion and muscles involved in ankle joint accurately List the Subtalar joints and transverse tarsal joints of foot correctly

25-11-2019	3-4pm	SURFACE AND RADIOLOGICAL ANATOMY OF LIMBS AND ANKLE 13.5,13.6,13.7,20.6-9 LECTURE	<p>Identify the bones and joints of lower limb seen in anteroposterior and lateral view radiographs of various regions of lower limb</p> <p>Identify the view, side and bones forming the hip joint in (acetabulum of hip, head, neck and trochanters of upper end of femur)normal plain AP &amp; lateral radiographs accurately</p> <p>Identify the view, side and bones forming the knee joint( condyles of femur, condyles of tibia, patella, head of fibula)in normal plain AP &amp; Lateral radiographs of knee joint accurately</p> <p>Identify the view , side and bones forming the ankle joint (lower ends of tibia &amp; fibula, medial and lateral malleoli, talus &amp; calcaneum) in normal plain AP &amp; Lateral view of ankle joint accurately</p> <p>Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand Identify &amp; demonstrate important bony landmarks of upper limb: Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula Identify &amp; demonstrate surface projection of: Cephalic and basilic vein</p>
27-11-2019	8-9am	INTRODUCTION TO THORAX AND RIBS 21.3-10 LECTURE	<p>Describe &amp; demonstrate the boundaries of thoracic inlet, cavity and outlet Describe &amp; demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles Describe &amp; demonstrate origin, course, relations and branches of a typical intercostal nerve Mention origin, course and branches/ tributaries of:</p> <ol style="list-style-type: none"> <li>1) anterior &amp; posterior intercostal vessels</li> <li>2) internal thoracic vessels</li> </ol> <p>Mention the origin, course, relations and branches of</p> <ol style="list-style-type: none"> <li>1) atypical intercostal nerve</li> <li>2) superior intercostal artery, subcostal artery</li> </ol> <p>Describe &amp; demonstrate type, articular surfaces &amp; movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints Describe &amp; demonstrate mechanics and types of respiration Describe costochondral and interchondral joints</p>

27-11-2019	1-2pm	STERNUM AND RIBS AN 21.1,2,8,10 SGD	Identify the salient features of sternum, typical rib, Ist rib describe the salient features of sternum, typical rib, Ist rib Identify the features of 2nd, 11th and 12th ribs describe the features of 2nd, 11th and 12th ribs Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints Describe costochondral and interchondral joints
27-11-2019	2-3pm	THORACIC WALL AN 21.3-7 DOAP	Describe & demonstrate the boundaries of thoracic inlet, cavity and outlet Describe & demonstrate extent, attachments, direction of fibres, nerve supply and actions of intercostal muscles Describe & demonstrate origin, course, relations and branches of a typical intercostal nerve Mention origin, course and branches/ tributaries of: 1) anterior & posterior intercostal vessels 2) internal thoracic vessels Mention the origin, course, relations and branches of 1) atypical intercostal nerve 2) superior intercostal artery, subcostal artery Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints Describe & demonstrate mechanics and types of respiration Describe costochondral and interchondral joints
29-11-2019	9-10am	CVS embryology I AN 25.2 LECTURE	Describe development of pleura Describe the development of the lung Describe the deveopment of the heart
29-11-2019	2-3pm	MEDIASTINUM AN 21.11,23.1-7 LECTURE	Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum Describe origin, course, extent, relations and branches of arch of aorta. Describe origin, course, extent, relations, tributaries of superior vena cava.
29-11-2019	3-4pm	HISTOLOGY OF GIT I AN 52.1 LECTURE	Describe the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach identify the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach



30-11-2019	8-9am	POSTERIOR MEDIASTINU M AN 23.1-7 LECTURE	<p>Describe the extent of oesophagus,location, constrictions,relations,blood supply,nerve supply,lymphatic drainage&amp;applied anatomy Describe extent,relations,tributaries of Thoracic duct &amp;applied anatomy Describe extent,relations,tributaries of Lymphatic duct &amp;applied anatomy Describe the origin, extent, course, relations,tributaries of azygos vein &amp; its clinical significance.</p> <p>Describe the course,extent ,relations of Descending Thoracic aorta and its branches</p> <p>Mention the location &amp;extent of Thoracic sympathetic chain</p> <p>Describe the formation of greater,lesser,least splachnic nerve</p>
30-11-2019	1-4pm	MEDIASTINU M AN 21.11,23.1-7 DOAP	<p>Demonstrate the Relations of oesophagus Demonstrate the relations of Thoracic duct Identify the superior vena cava in a human cadaver correctly. Identify the arch of aorta in a human cadaver correctly. Identify the Descending thoracic aorta &amp;in a human cadaver correctly. Identify the Thoracic sympathetic chain in Human cadaver</p>

**SreeNarayana Institute of Medical Sciences, Chalakka**

**Department of Physiology**

**2019 Reg. Batch**

**Theory & Practical Classes Schedule for the month of November-2019**

<b>WEEK 7</b>				
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>SLO (The student should be able to)</b>	<b>Faculty</b>
01/11/19 Friday	10-11am	Blood groups and clinical importance of blood grouping. PY2.9	Describe the following: 1. Blood group system 2. Inheritance of blood group 3. Landsteiners laws 4. Significance of blood grouping 5.Hemolytic disease of new born	Dr Reena Alexander
	11-12noon	Action of neuro-muscular blocking agents PY3.5	1. Classify the drugs acting on neuromuscular junction 2. Explain their mechanism of action	Dr. Nithi Varghese
02/11/19 Saturday	9-10am	Anemia PY 2.5	1. Define anemia 2. Classification of anemia 3. Describe iron deficiency anemia 4. Describe megaloblastic anemia 5. Describe hemolytic anemia 6. Describe polycythemia	Dr Indira Kumari K R

<b>WEEK 8</b>				
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>SLO (The student should be able to)</b>	<b>Faculty</b>
04/11/19 Monday	9-10am	Smooth Muscle- Contraction & Properties PY 3.9,3.12	1. Explain the mechanism of muscle contraction in a smooth muscle 2. Describe the properties of Smooth muscle. 3. Explain the effect of neural and hormonal influence on smooth muscle	Dr Arun K Prakash
	10-12Noon	Estimate Blood groups Estimate BT/CT	1. Determine blood groups by using commercially available antisera 2. List the clinical importance of doing BT/CT	Dr. Ahana

		PY2.11	3. Determine BT and CT by the routine laboratory methods.	
05/11/19 Tuesday	8-9M	Blood banking and transfusion. PY2.9	1. Explain Indications and complications of blood transfusion 2. Describe the methods of collection and storage of blood. 3. Explain preservation injuries of stored blood.	Dr Reena Alexander
	10-12Noon	Estimate Blood groups Estimate BT/CT PY2.11	1. Determine blood groups by using commercially available antisera 2. List the clinical importance of doing BT/CT 3. Determine BT and CT by the routine laboratory methods.	Dr. Ahana
06/11/19 Wednesday	9-10am	Structure and functions of digestive system PY 4.1	1. Describe the functional anatomy of GI system & functions of digestive system 2. Describe enteric nervous system, neural regulations of GI functions. 3. Introduction to GI secretion.	Dr Indira Kumari K R
	10-12Noon	Early clinical exposure	1. Functioning of blood bank	Physiology /Pathology
07/11/19 Thursday	8-9M	Pathophysiology of Myasthenia gravis PY3.6	1. List the clinical features of Myasthenia 2. Explain the pathophysiology of Myasthenia gravis 3. Name the drugs used in the treatment of Myasthenia Gravis 4. Explain the physiological basis of each drug	Dr. Nithi Varghese
	10-12Noon	Early clinical exposure	1. Functioning of blood bank	Physiology /Pathology
08/11/19 Friday	10-11am	Fate of RBC & Hemoglobin. Jaundice PY2.5	1. Explain the process of destruction of RBC 2. Describe the fate of hemoglobin 3. Define jaundice 4. Classify jaundice. 5. Differentiate the physiological basis & laboratory findings in different types of jaundice.	Dr Arun K Prakash
	11-12noon	Autonomic Nervous system Py4.6,10.1,10.5	1. Describe the enteric nervous system and autonomic control over the GI	Dr Ahana Salam

<b>WEEK 9</b>				
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>SLO (The student should be able to)</b>	<b>Faculty</b>
11/11/19 Monday	9-10am	Composition, mechanism of secretion, saliva PY4.2	<ol style="list-style-type: none"> <li>1. Explain structure of salivary gland</li> <li>2. Describe mechanism of secretion of saliva</li> <li>3. List the composition of saliva</li> </ol>	Dr. Nithi Varghese
	10-12Noon	Preparation of peripheral smearPY2.11	<ol style="list-style-type: none"> <li>1. Enumerate the components of Leishman's stain</li> <li>2. Explain the function of each</li> <li>3. Prepare satisfactory blood smears, fix and stain them,</li> </ol>	Dr Arun K Prakash
12/11/19 Tuesday	8-9M	Functions, and regulation of saliva PY4.2	<ol style="list-style-type: none"> <li>1. Explain the functions of saliva</li> <li>2. Describe the regulation of secretion of saliva</li> </ol>	Dr. Nithi Varghese
	10-12Noon	Preparation of peripheral smearPY2.11	<ol style="list-style-type: none"> <li>1. Enumerate the components of Leishman's stain</li> <li>2. Explain the function of each</li> <li>3. Prepare satisfactory blood smears, fix and stain them,</li> </ol>	Dr Arun K Prakash
13/11/19 Wednesday	9-10am	Stomach PY 4.1, 4.2	<ol style="list-style-type: none"> <li>1. Describe the functional anatomy of stomach</li> <li>2. Describe the composition of gastric juice</li> <li>3. Describe the mechanism of HCl secretion</li> <li>4. Describe the functions of HCl</li> </ol>	Dr Indira Kumari K R
	10-12Noon	Differential Leukocyte count PY2.11	<ol style="list-style-type: none"> <li>1. Identify different blood cells in a film under the microscope.</li> <li>2. Carry out the differential count and express the results in percentage.</li> </ol>	Dr. Nithi Varghese
14/11/19 Thursday	8-9M	Muscular dystrophies PY3.13	<ol style="list-style-type: none"> <li>1. Define muscular dystrophy</li> <li>2. List different types of muscle dystrophies</li> <li>3. Discuss the clinical features of Duchenne's muscle dystrophy</li> </ol>	Dr Arun K Prakash
	10-12Noon	Differential Leukocyte count PY2.11	<ol style="list-style-type: none"> <li>1. Identify different blood cells in a film under the microscope.</li> <li>2. Carry out the differential count and express the results in percentage.</li> </ol>	Dr. Nithi Varghese

15/11/19 Friday	10-11am	Stomach PY 4.2	<ol style="list-style-type: none"> <li>Describe the regulation of HCl secretion</li> <li>Describe the applied aspects of HCl secretion</li> </ol>	Dr Indira Kumari K R
	11- 12noon	Composition, mechanism of secretion of pancreatic juice. PY 4.2	<ol style="list-style-type: none"> <li>Describe the structure of Exocrine pancreas</li> <li>List the composition of Pancreatic Juice.</li> </ol>	Dr Reena Alexander
16/11/19 Saturday	9-10am	Deglutition PY 4.3,4,9	<ol style="list-style-type: none"> <li>Explain mastication ,functions &amp; regulation</li> <li>Explain phases of deglutition</li> <li>Describe the structure of oesophagus</li> <li>Explain neural regulation of swallowing</li> <li>Describe Achalasia Cardia &amp; Gastrooesophagila reflux disease</li> </ol>	Dr Arun K Prakash
	10- 12Noon	<b>Short Test 2</b> (NMJ, Muscle Physiology, Hemostasis, Anemia & Jaundice, Saliva)		

<b>WEEK 10</b>				
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>SLO (The student should be able to)</b>	<b>Faculty</b>
18/11/19 Monday	9-10am	Functions and regulation of pancreatic juice. Steatorrhoea. PY4.2	<ol style="list-style-type: none"> <li>Explain the regulation and secretion of Pancreatic Juice(neural and humeral)</li> <li>Describe Steatorrhoea and causes</li> </ol>	Dr Reena Alexander
	10- 12Noon	Differential Leukocyte count PY2.11 (Revision)	<ol style="list-style-type: none"> <li>Identify different blood cells in a film under the microscope.</li> <li>Carry out the differential count and express the results in percentage.</li> </ol>	Dr. Nithi Varghese
19/11/19 Tuesday	8-9M	Structure and functions of liver and gall bladder. PY 4.7	<ol style="list-style-type: none"> <li>Describe the structure of liver.</li> <li>Composition and functions of bile.</li> </ol>	Dr Reena Alexander

	10-12Noon	Differential Leukocyte count PY2.11 (Revision)	<ol style="list-style-type: none"> <li>Identify different blood cells in a film under the microscope.</li> <li>Carry out the differential count and express the results in percentage.</li> </ol>	Dr. Nithi Varghese
20/11/19 Wednesday	9-10am	Stomach PY 4.9	<ol style="list-style-type: none"> <li>Discuss the physiological aspect of peptic ulcer</li> <li>Describe the protective mechanism of the mucosal barrier</li> </ol>	Dr Indira Kumari K R
	10-12Noon	Simple muscle twitch PY3.18	<p>Draw and interpret amphibian nerve muscle experiments</p> <ol style="list-style-type: none"> <li>Draw Simple muscle twitch</li> <li>Identify latent period, contraction period and relaxation period</li> </ol>	Dr. Nithi Varghese
21/11/19 Thursday	8-9M	Movements of the stomach PY 4.3,4.9	<ol style="list-style-type: none"> <li>Explain the types of gastric movements in an empty stomach and with relation to a meal</li> <li>Describe gastric emptying and its regulation</li> <li>Explain disorders of gastric motility (GOO &amp; Dumping syndrome)</li> <li>Explain the process and mechanism of vomiting</li> </ol>	Dr Arun K Prakash
	10-12Noon	Simple muscle twitch PY3.18	<p>Draw and interpret amphibian nerve muscle experiments</p> <ol style="list-style-type: none"> <li>Draw Simple muscle twitch</li> <li>Identify latent period, contraction period and relaxation period</li> </ol>	Dr. Nithi Varghese
22/11/19 Friday	10-11am	Structure and functions of gall bladder. PY 4.7	<ol style="list-style-type: none"> <li>Explain the regulation bile and secretion of bile and functions of liver.</li> <li>Difference between Gallbladder bile and liver bile.</li> </ol>	Dr Reena Alexander
	11-12noon	Composition, regulation of secretion, functions of intestinal juice and functions of small intestine PY4.2	<ol style="list-style-type: none"> <li>List the composition of intestinal juice</li> <li>Regulation of secretion of intestinal juice</li> <li>Explain the functions of small intestinal juice</li> <li>Explain the structure and function of small intestine</li> </ol>	Dr. Nithi Varghese
23/11/19 Saturday	9-10am	Large intestine, Dietary Fiber & Microflora	<ol style="list-style-type: none"> <li>Describe functional anatomy of large intestine</li> <li>Describe secretory, motor, absorptive functions of large intestine</li> <li>Describe synthesis of short chain fatty</li> </ol>	Dr Jincy Joseph

		PY 4.1, 4.3,4.4	acids. 4. Explain the importance of dietary fiber in meal 5. Describe the significance of gut bacteria in GI tract	
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<b>WEEK 11</b>				
<b>Date</b>	<b>Time</b>	<b>Topic</b>	<b>SLO (The student should be able to)</b>	
25/11/19 Monday	9-10am	Pancreatic exocrine function tests & liver function tests. PY 4.8	1. List the pancreatic exocrine function tests and liver function tests	Dr Reena Alexander
	10-12Noon	Effect of two successive stimuli, Fatigue PY3.18	Draw and interpret amphibian nerve muscle experiments 1.Effect of two successive stimuli on simple muscle twitch 2. Fatigue on skeletal muscle	Dr. Ahana Dr. Jincy
26/11/19 Tuesday	8-9M	Movements of the small intestine PY 4.3,4.9	1. Explain the movements of the small intestine. 2. Describe Adynamic ileus	Dr Arun K Prakash
	10-12Noon	Effect of two successive stimuli, Fatigue PY3.18	Draw and interpret amphibian nerve muscle experiments 1.Effect of two successive stimuli on simple muscle twitch 2. Fatigue on skeletal muscle	Dr. Ahana Dr. Jincy
27/11/19 Wednesday	9-10am	Movements of the large intestine PY 4.3,4.9	1. Explain the movements of large intestine 2. Describe the abnormalities of LI movement (diarrhea& constipation,) 3. Describe Hirschsprung's disease	Dr Arun K Prakash
	10-12Noon	Tetanus, Afterload and preload PY3.18	Draw and interpret amphibian nerve muscle experiments 1.Tetanus 2. Afterload and preload	Dr Arun K Prakash
28/11/19 Thursday	8-9M	Cardiac Muscle PY 3.7, 5.2	1. Structure of cardiac muscle 2. Excitation, contraction, coupling in cardiac muscle	Dr Arun K Prakash

			3. Properties of cardiac muscle	
	10-12Noon	Tetanus, Afterload and preload PY3.18	Draw and interpret amphibian nerve muscle experiments 1. Tetanus 2. Afterload and preload	Dr Arun K Prakash
29/11/19 Friday	10-11am	Cardiac Muscle PY 3.8, 5.2, 5.4	1. Describe action potential in cardiac muscle 2. Describe pacemaker potential	Dr Arun K Prakash
	11-12noon	Digestion and absorption PY 4.4	1. Explain the digestion and absorption of carbohydrate and proteins 2. Explain the digestion and absorption of fats and vitamins	Dr Ahana Salam
30/11/19 Saturday	9-10am	Functional anatomy of respiratory tract PY 6.1	1. Define respiration 2. Describe functional anatomy of respiratory system 3. Describe functions of different parts of respiratory system 4. Enumerate non respiratory function of lungs	Dr Indira Kumari K R



**SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA**

**DEPARTMENT OF BIOCHEMISTRY**

**IstYEAR MBBS BATCH 2019**

**THEORY TEACHING SCHEDULE FOR THE MONTH OF NOVEMBER 2019**

DATE	TIME	TOPIC		SLO	FACULTY
01.11.2019	9.00-10.00 am	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. BI 4.1	1	Define lipids	Dr.Sneha
			2	Classify lipids correctly.	
			3	Discuss biomedical importance of lipids in human beings.	
			4	Discuss simple lipids.	
04.11.2019	8.00-9.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	1	Define glycolysis	Dr.Anju
			2	Discuss the significance of glycolysis	
			3	Enumerate the reactions of glycolysis	
			4	Give an account of energetics of glycolysis	
05.11.2019	9.00-10.00 am	Describe and discuss structural organisation of proteins BI 5.1	1	Protein Biological importance	Dr.Asha
			2	Classification	
			3	Peptide bond	
			4	Structural organization of protein	
			5	Primary structure	
07.11.2019	8.00-9.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency BI 6.5	1	Enumerate the RDA of vitamin ascorbic acid	Dr.Prabhakaran
			2	Enumerate the Sources of vitamin ascorbic acid	
			3	Describe the Biochemical Role of vitamin ascorbic acid	
			4	Discuss the deficiency manifestations of ascorbic acid	
08.11.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	1	Enumerate the macronutrients	Dr.Prabhakaran
			2	Enumerate the micronutrients	
			3	Enumerate the RDA of the calcium	
			4	Enumerate the sources of calcium	
			5	Describe the biochemical role of calcium	
11.11.2019	8.00-9.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	1	Describe the disorders of glycolysis	Dr.Anju
			2	Give a short note on Rapport Luebering Pathway	
			3	Discuss the Fate of Pyruvate	
			4	Discuss about PDH complex	

		Describe the common poisons that inhibit the crucial enzymes of carbohydrate metabolism (eg fluoride, arsenate)BI 3.7	5	Describe the inhibitors of glycolysis	
12.11.2019	9.00-10.00 am	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. BI 4.1	1	Discuss fatty acids.	Dr.Sneha
			2	Discuss properties of fatty acids.	
			3	Essential fatty acids.	
			4	Define saponification number with its significance.	
			5	Define iodine number with its significance.	
			6	Define acid number with its significance.	
			7	Define Reichert- Meissl number with its significance.	
14.11.2019	9.00-10.00 am	Describe and discuss structural organisation of proteins BI 5.1	1	Describe secondary structure of proteins and collagen	Dr.Asha
15.11.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9 Enumerate and describe the disorders associated with mineral metabolism BI 6.10	1	Describe the homeostasis of calcium	Dr.Prabhakaran
			2	Enumerate the disorders associated with calcium	
			3	Describe the disorders associated with calcium	
18.11.2019	8.00-9.00 am	Describe and discuss the concept of TCA cycle as an amphibolic pathway and its regulation BI 3.6	1	Define citric acid cycle	Dr.Anju
			2	Discuss the significance of citric acid cycle	
			3	Give an account of reactions of citric acid cycle	
19.11.2019	9.00-10.00 am	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. BI 4.1	1	Describe compound lipids with suitable examples.	Dr.Sneha
			2	Differentiate between phospholipids and sphingolipids.	
			3	Discuss biomedical importance of phospholipids with examples.	
			4	Discuss phosphatidyl choline with its significance.	
			5	Discuss cardiolipin.	
21.11.2019	9.00-10.00 am	Describe and discuss structural organisation of proteins BI 5.1	1	Describe tertiary structure of proteins and myoglobin	Dr.Asha
			2	Describe quaternary structure of proteins with examples.	
22.11.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	1	Enumerate the RDA of the copper	Dr.Prabhakaran
			2	Enumerate the sources of copper	
			3	Describe the biochemical role of copper	
		Enumerate and describe the disorders associated with	4	Enumerate the disorders associated with copper	

		mineral metabolism BI 6.10	5	Describe the disorders associated with copper	
23.11.2019	10.00-12.00 am	Test On Lipid Chemistry, Protein Chemistry, Water Soluble Vitamins, Calcium, Carbohydrate Metabolism			
25.11.2019	8.00-9.00 am	Describe and discuss the concept of TCA cycle as an amphibolic pathway and its regulation BI 3.6	1	Describe the regulation of citric acid cycle	Dr.Anju
			2	Discuss the of energetics of citric acid cycle	
			3	Define Anapleurotic reactions	
			4	Enlist the disorders of citric acid cycle	
		5	Describe the inhibitors of citric acid cycle		
		Describe the common poisons that inhibit the crucial enzymes of carbohydrate metabolism (eg fluoride, arsenate) BI 3.7			
26.11.2019	9.00-10.00 am	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. BI 4.1	1	Discuss glycolipids with examples.	Dr.Sneha
28.11.2019	9.00-10.00 am	Describe and Discuss the metabolic processes in which nucleotides are involved. BI 6.2	1	Define Nucleotides	Dr.Asha
			2	Classify nucleotides	
			3	Describe the chemical/structural make-up of nucleotides	
			4	Enumerate the atypical/modified bases	
			5	Describe the uses of synthetic nucleotide analogues	
29.11.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	1	Enumerate the RDA of the iron	Dr.Prabhakaran
			2	Enumerate the sources of iron	
			3	Describe the biochemical role of iron	
Dr.Asha Augusthy					
Professor & HOD					
Department of Biochemistry					

**SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA**  
**DEPARTMENT OF COMMUNITY MEDICINE**  
**THEORY TEACHING SCHEDULE FOR THE MONTH OF NOVEMBER 2019**  
**(2019 MBBS Batch)**

Date	Time	Topic	SLO	Faculty
07-11-2019	1-2pm	CM5.1) Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	1. Enumerate the common sources of carbohydrates, proteins and fats 2. Discuss the special nutrient requirement according to age, sex, activity and physiological conditions	<b>AJ</b>
	2-3pm		1. Enumerate the common sources of vitamins 2. Discuss the special nutrient requirement according to age, sex, activity and physiological conditions	<b>KK</b>
	3-4pm		1. Enumerate the common sources of minerals 2. Discuss the special nutrient requirement according to age, sex, activity and physiological conditions	<b>AR</b>
14/11/2019	1-2pm	CM5.3) Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management	1. Define and describe the micronutrient related health disorder for Iron and Zinc deficiency 2. Discuss its prevention and control measures	<b>AM</b>
	2-3pm		1. Define and describe the micronutrient related health disorder for Iodine and Vitamin A deficiency 2. Discuss its management and control measures	<b>BS</b>
	3-4pm	CM5.7) Describe food hygiene	1. Define food hygiene 2. Enlist the milk borne diseases 3. List the preventive measures for milk borne diseases	<b>JD</b>
21/11/2019	1-2pm	CM5.7) Describe food hygiene	1. List the diseases transmitted by unwholesome meat 2. Discuss the importance of meat inspection 3. Enumerate the minimum standards for a slaughter house	<b>KN</b>
	2-3pm	CM9.1) Define and describe the principles of Demography,	1. Define demography 2. Discuss the stages in demographic cycle	<b>BR</b>

	3-4pm	Demographic cycle, Vital statistics	Describe the demographic profile of India and discuss the demographic indicators	<b>BR</b>
28-11-19	1-2pm	CM12.1) Define and describe the concept of Geriatric services	Define and describe the concept of Geriatric services	<b>VC</b>
	2-3pm	CM12.2) Describe health problems of aged population	Describe health problems of aged population	<b>AJ</b>
	3-4pm	CM12.3) Describe the prevention of health problems of aged population	Describe the prevention of health problems of aged population	<b>KK</b>

**Prof. Dr. Alexander John**  
**HOD, Dept of Community Medicine**