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

1st MBBS 2019 Batch

CONTENTS

- ❖ **PHASE 1 TEACHING SCHEDULE
AND SLOs
(THEORY & PRACTICAL)**

- ❖ **Month of December -2019**

Aditya

Dr. Aditya Krishna Das

Curriculum co-ordinator - 1st MBBS

30.11.2019

Phase 1 Monthly Time Table - December 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
	01-Dec	Sunday								
	02-Dec	Mon	Iron (Lectures) BI 6.9, 6.10	Introducti on to cardiac muscle(Le cture) PY 3.7, 5.2	Respiratory System AN 25.1 DOAP			Pleura AN 24.1 Lecture TJ	Mediastinum AN 21.11,23.1-7 DOAP	
Normal cardiogram, Effect of temperature, Stannius ligature PY 3.18										
Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1										
	03-Dec	Tue	Cardiac cycle (Lectures) PY 5.3	Carbohyd rate Metabolis m (Lectures) BI 3.4.	Respiratory System AN 25.1 DOAP		Lung AN 24.2-6 Lecture AP	Pleura and Lung AN 24.1-4 DOAP		
Normal cardiogram, Effect of temperature, Stannius ligature PY 3.18										

Week 12				3.5	Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1			
	04-Dec	Wed	CVS Embryology AN 25.2-25.6 Lecture	Cardiac cycle (Lectures) PY 5.3	Respiratory System AN 25.1 DOAP Vagal stimulation, Refractory period PY 3.18 Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1	LUNCH BREAK	Pericardium AN 22.1 Lecture SV	Pleura and Lung AN 24.1-4 DOAP
	05-Dec	Thu	Introduction to respiration (Lecture) PY 6.1	Heme Metabolism (Lectures) BI 6.11	Vagal stimulation, Refractory period PY 3.18		Describe the diseases in the context of the associated disabilities and discuss measures to prevent them. Describe the government run programs, schemes, legislations and legal services available for patients/persons with disabilities. Show respect for the autonomy of patients with disabilities, or to their caregivers. Demonstrate a non-discriminatory attitude towards patients or caregivers with disabilities and a commitment to provide to them	

				Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1		Commitment to provide to them care of same quality as to others.
06-Dec	Fri	Nucleotide Metabolism (Lectures) BI 6.3	CVS Embryology AN 25.2-25.6 Lecture	Introduction to respiration (Lecture) PY 6.1	Mechanism of respiration (Lecture) PY 6.2	Pleura and Lung AN 24.1-4 DOAP
07-Dec	Sat	CVS Embryology AN 25.2-25.6 Lecture	Mechanism of respiration (Lecture) PY 6.2	Thoracic Vertebrae AN 22.1,2,8 SGD	Heart AN 22.1-7 DOAP	Heart 1 AN 22.1-7 Lecture TJ
08-Dec	Sunday					
09-Dec	Mon	Iron (Lectures) BI 6.9, 6.10	Cardiac cycle (Lecture) PY 5.3	Histology Revision GI Hormones PY 4.5, Gastric function test PY 4.8 (SGD) Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva		Heart 2 AN 22.1-7 Lecture AP Heart AN 22.1-7 DOAP
10-Dec	Tue	Cardiac muscle (Lecture) PY 3.8, 5.2, 5.4	Hemoglobin (Lectures) BI 6.12	Histology Revision GI Hormones PY 4.5, Gastric function test PY 4.8 (SGD) Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva		Posterior Mediastinum 1 AN 23.1-7 KJ Heart AN 22.1-7 DOAP

Week 13	11-Dec	Wed	CVS Embryology AN 25.2-25.6 Lecture	Surfactant (Lecture) PY 6.2	Histology Revision		LUNCH BREAK	Posterior Mediastinum 2 AN 23.1-7 SV	Posterior Mediastinum AN 23.1-7 DOAP
					Revision				
					Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva				
	12-Dec	Thu	Functional Anatomy of heart PY5.1	Nucleotide Metabolism (Lectures) BI 6.3	Histology Revision		Describe and discuss the importance and methods of food fortification and effects of additives and adulteration (CM5.8) Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)		
					Revision				
					Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva				
	13-Dec	Fri	Carbohydrate Metabolism (Lectures) BI 3.4, 3.5	CVS Embryology AN 25.2-25.6 Lecture	Lung volume and capacities (Lecture) PY 6.2	Cardiovascular regulation (Lecture) PY 5.8		Radiology Surface Marking of Thorax AN 25.7-9 DOAP	
	14-Dec	Second Saturday							
	15-Dec	Sunday							
	16-Dec	Mon	First Internal Assessment -Anatomy						
	17-Dec	Tue	First Internal Assessment - Physiology						

Week 14	18-Dec	Wed	First Internal Assessment -Biochemistry				
	19-Dec	Thu	First Internal Assessment (Practical)-Anatomy / Physiology / Biochemistry				
	20-Dec	Fri					
	21-Dec	Sat					
	22-Dec	Sunday					
Week 15	23-Dec	Mon	First Internal Assessment (Practical)-Anatomy / Physiology / Biochemistry				
	24-Dec	Tue	Compliance (Lecture). PY 6.2	Heme Metabolism (Lectures) BI 6.11		LUNCH BREAK	SDL
					Revision		
					Estimation of Urea (DOAP) BI 11.21		
	25-Dec	Wed	Christmas				
	26-Dec	Thu	Conduction system PY 5.1,5.4	Phosphorus, Sulphur, Iodine (SDL) BI 6.9, 6.10			Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)
		Revision					
		Estimation of Urea (DOAP) BI 11.21					

	27-Dec	Fri	Carbohydrate Metabolism (Lectures) BI 3.4, 3.5	Histology Of GIT 1 AN 52.1 Lecture	Surfactant (Lecture) PY 6.2	ECG(Lecture)PY5.5	LUNCH BREAK		Structural organization of nervous system DOAP
	28-Dec	Sat	Scalp AN 27.1-2 Lecture	Cardiovascular regulation (Lecture)PY 5.8	Early Clinical Exposure Vitamins, Minerals (SGD)				Introduction to Head and Neck and Scalp 27.1-2 DOAP
	29-Dec	Sunday							
Week 16	30-Dec	Mon	Hemoglobin(Lectures) BI 6.12	Cardiac output(Lecture) PY 5.9	Histology Of GIT 1 AN 52.1 DOAP	General examination	LUNCH BREAK	Norma Verticalis & Frontalis AN 26.2 SGD	Face AN 28.1-3,6 DOAP
	31-Dec	Tue	Ventilation, V/P ratio, diffusion capacity of lungs. (Lecture) PY 6.2	Nucleotide Metabolism (Lectures) BI 6.3	Histology Of GIT 1 AN 52.1 DOAP	General examination		Norma Lateralis & Occipitalis AN 26.2 SGD	Face AN 28.1-3,6 DOAP
					Estimation of Creatinine (DOAP) BI .Nucleotide Chemistry BI 6.211.21				

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA				
DEPARTMENT OF ANATOMY				
FIRST YEAR MBBS BATCH 2019				
THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF DECEMBER 2019				
Date	Time	Topic	SLOs	Faculty
02-12-2019 to 05-12-2019	10-12am	Respiratory System AN 25.1 DOAP	Identify, draw and label a slide of trachea and lung	ALL
02-12-2019	1-2pm	Pleura AN 24.1 Lecture TJ	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy Describe the plural ligaments and the blood supply, lymphatic drainage and nerve supply of pleura accurately. Anatomical basis of referred pain of the pleura, pleural tap (thoracocentesis) and clinical terminology related to pleura.	TJ
02-12-2019	2-4pm	Mediastinum AN 21.11,23.1 7 DOAP	Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of oesophagus Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins Mention the extent, branches and relations of arch of aorta	ALL

03-12-2019	1-2pm	Lung AN 24.2-6 Lecture AP	Describe the external features and relations of apex, base, borders, and surfaces of lung and side Describe the lobes and fissures of lung.and also can describe root of lung and identify structures in hilum of lung on both sides. Anatomical basis pancoast syndrome and horner's syndrome . Lobes , accessory lobes and fissures Describe, name and enumerate a bronchopulmonary segment, and bronchial tree and its parts. Describe the origin, course, relations, branches and distribution of bronchial arteries and pulmonary arteries. Describe tributaries and relations of Bronchial vains and pulmonary vains and lymphatic vessels and nodes and drainage of lung Describe the location, extent, length, course and relations, of trachea.	
04-12-2019	8-9am	CVS Embryology AN 25.2-25.6 Lecture	Describe fetal circulation and changes occurring at birth Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	ALL
04-12-2019	1-2pm	Pericardium AN 22.1 Lecture SV	Describe the subdivisions of pericardium accurately To name the nerve supply and arterial supply of the pericardium Define and name the pericardial sinuses and enumerate their important boundaries	AD
04-12-2019,06-12-2019	2-4pm	Pleura and Lung AN 24.1-4 DOAP	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy Anatomical basis of referred pain of the pleura, pleural tap (thoracocentesis) and clinical terminology related to pleura. describe the external features and relations of apex, base, borders, and surfaces of lung and side identify and describe the lobes and fissures of lung.and also can describe root of lung and identify structures in hilum of lung on both sides. Describe, name and ennumaret a bronchopulmonary segment, and bronchial tree and its parts.	All

06-12-2019, 07-12-2019,13-12-2019	9-10 am 8-9am	CVS Embryology AN 25.2-25.6 Lecture	Describe fetal circulation and changes occurring at birth Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	
07-12-2019	10-12am	Thoracic Vertebrae AN 22.1,2,8 SGD	Identify and describe the salient features of sternum, typical rib, 1st rib and typical thoracic vertebra Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints	All
07-12-2019 09-12-2019 10-12-2019	02-Apr	Heart AN 22.1-7 DOAP	Describe the subdivisions of pericardium accurately To name the nerve supply and arterial supply of the pericardium Define and name the pericardial sinuses and enumerate their important boundaries Describe the external features, surfaces, borders, apex, base (anatomical vs clinical) of the heart Describe the parts, openings and salient features of interior of right atrium Describe the interior of both ventricles	ALL
09-12-2019	1-2pm	Heart 2 AN 22.1-7 Lecture AP	Describe the origin, course and branches of right and left coronary arteries separately Describe the area of supply of left and right coronary artery Describe the salient features of atherosclerosis Describe the effects of altered blood supply to myocardium	AP

10-12-2019	1-2PM	Posterior Mediastinum 1 AN 23.1-7 KJ	<p>Define Mediastinum,mention the boundaries &contents of each</p> <p>Describe the extent of oesophagus,location, constrictions,relations,blood supply,nerve supply,lymphatic drainage&applied anatomy</p> <p>Mention the extent, branches and relations of arch of aorta & descending thoracic aorta</p> <p>Describe extent,relations,tributaries of Thoracic duct &applied anatomy</p> <p>Describe the origin, extent, course, relations,tributaries of azygos vein & its clinical significance.</p> <p>Describe origin, course, extent,relations,tributaries of superior vena cava.</p> <p>Mention the location &extent of Thoracic sympathetic chain</p>	TJ
11-12-2019	1-2pm	Posterior Mediastinum 1 AN 23.1-7 KJ	<p>Define Mediastinum,mention the boundaries &contents of each</p> <p>Describe the extent of oesophagus,location, constrictions,relations,blood supply,nerve supply,lymphatic drainage&applied anatomy</p> <p>Mention the extent, branches and relations of arch of aorta & descending thoracic aorta</p> <p>Describe extent,relations,tributaries of Thoracic duct &applied anatomy</p> <p>Describe the origin, extent, course, relations,tributaries of azygos vein & its clinical significance.</p> <p>Describe origin, course, extent,relations,tributaries of superior vena cava.</p> <p>Mention the location &extent of Thoracic sympathetic chain</p>	KJ

11-12-2019	2-4pm	Posterior Mediastinum AN 23.1-7 DOAP	Define Mediastinum, mention the boundaries & contents of each identify & Describe the extent of oesophagus, location, constrictions, relations, blood supply, nerve supply, lymphatic drainage & applied anatomy Mention the extent, branches and relations of arch of aorta & descending thoracic aorta identify & Describe extent, relations, tributaries of Thoracic duct & applied anatomy identify & Describe the origin, extent, course, relations, tributaries of azygos vein & its clinical significance. identify & Describe origin, course, extent, relations, tributaries of superior vena cava. Mention the location & extent of Thoracic sympathetic chain	All
13-12-2019	2-4pm	Radiology Surface Marking of Thorax AN 25.7-9 DOAP	Identify structures seen on a plain x-ray chest (PA view) Demonstrate surface marking of lines of pleural reflection, lung borders and fissures, trachea, heart borders, apex beat & surface projection of valves of heart	All
27-12-2019	9-10 am	Histology Of GIT 1 AN 52.1 Lecture	Describe the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland	KJ
30-12-2019 & 31-12-2019	10-12am	Histology Of GIT 1 AN 52.1 DOAP	identify the microanatomical features of Gastro-intestinal system: Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland	All

30-12-2019 & 31-12-2019	1-2pm	Norma Verticalis & Frontalis Lateralis & OccipitalisAN 26.2 SGD	Enumerate the bones forming the norma frontalis, verticalis, occipitalis, lateralis and basalis correctly Enumerate the sutures and bones forming the sutures in the norma frontalis, verticalis, occipitalis, lateralis and basalis correctly Enumerate the bony foramina in all normas correctly Identify the bony foramina in all normas correctly Enumerate the structures passing through the foramina in all normas correctly Describe bregma, pterion, nasion and vertex in the Normas correctly) Enumerate the fontanelles and year of its closure in foetal skull correctly Enumerate the structures attached to the styloid and mastoid processes correctly	All
30-12-2019 & 31-12-2019	2-4pm	Face AN 28.1- 3,6 DOAP ☐	List the muscles of facial expression. Describe the attachments, nerve supply & actions of the muscles facial expression in detail. Identify all the muscles of facial expression and demonstrate their attachments, nerve supply and actions in a cadaver. Describe the sensory innervation of face. Identify the sensory nerves of face in a cadaver and demonstrate their origin and areas of face supplied by them. List the arteries supplying the face. Describe the origin/formation, course, termination and branches/tributaries of facial vessels. Identify the facial vessels and demonstrate their origin, course, termination and branches/tributaries in a cadaver.	All

SreeNarayana Institute of Medical Sciences, Chalakka

Department of Physiology

2019 Reg. Batch

Theory & Practical Classes Schedule for the month of December-2019

WEEK 12				
Date	Time	Topic	SLO (The student should be able to)	Faculty
02/12/19 Monday	9-10am	Introduction to cardiac muscle PY 3.7, 5.2	<ol style="list-style-type: none"> 1. Structure of cardiac muscle 2. Excitation, contraction, coupling in cardiac muscle 3. Properties of cardiac muscle 	Dr Arun K Prakash
	10-12Noon	<ol style="list-style-type: none"> 1. Normal cardiogram, 2. Effect of temperature, 3. Stannius ligature PY3.18	<ol style="list-style-type: none"> 1. Draw and interpret amphibian cardiac experiments 	Dr Nithi Varghese Dr Jincy Joseph Dr Arun K Prakash
03/12/19 Tuesday	8-9M	Cardiac cycle PY5.3	<ol style="list-style-type: none"> 1. Define cardiac cycle with duration and list the phases of cardiac cycle. 	Dr Nithi Varghese
	10-12Noon	<ol style="list-style-type: none"> 1. Normal cardiogram, 2. Effect of temperature, 3. Stannius ligature PY3.18	<ol style="list-style-type: none"> 1. Draw and interpret amphibian cardiac experiments 	Dr Nithi Varghese Dr Jincy Joseph Dr Arun K Prakash
04/12/19 Wednesday	9-10am	Cardiac cycle PY5.3	<ol style="list-style-type: none"> 1. Describe the pressure and volume changes in the left and right ventricles, atria, aorta and pulmonary artery. 	Dr Nithi Varghese

	10-12Noon	1.Vagal stimulation, 2.Refractory period PY3.18	1. Draw and interpret amphibian cardiac experiments	Dr Ahana Salam Dr Arun K Prakash
05/12/19 Thursday	8-9M	Introduction to respiration PY6.1	1. Describe structural and functional divisions of respiratory tract and lungs 2. Describe external and internal respiration 3. List of layers of pleura and its clinical significance.	Dr Indira Kumari K R
	10-12Noon	1.Vagal stimulation, 2.Refractory period PY3.18	1. Draw and interpret amphibian cardiac experiments	Dr Ahana Salam Dr Arun K Prakash
06/12/19 Friday	10-11am	Introduction to respiration PY6.1	3. Describe functions of upper respiratory tract 4. Describe the non respiratory function of lungs.	Dr Indira Kumari K R
	11-12noon	Mechanics of respiration. PY 6.2	1. Describe type of expansion of thoracic cage during respiration 2. Describe the role of inspiratory and expiratory muscles during quiet respiration and forceful respiration.	Dr Reena Alexander
07/12/2019	9-10am	Mechanics of respiration. PY 6.2	1. Describe physiological basis for negative intrapleural pressure, its importance and its variations during different phases of respiration	Dr Reena Alexander

WEEK 13

Date	Time	Topic	SLO (The student should be able to)	Faculty
09/12/19 Monday	9-10am	Cardiac cycle PY5.3	1. Describe the heart sounds – causes, character and abnormalities.	Dr Nithi Varghese
	10-12Noon	G I Hormones PY 4.5, Gastric function test PY 4.8	1. The source of GI hormones, their regulation and functions 2. Explain the gastric function tests	SGD/SDL
10/12/19 Tuesday	8-9M	Cardiac muscle PY 3.8, 5.2, 5.4	4. Describe action potential in cardiac muscle 5. Describe pacemaker potential	Dr Arun K Prakash
	10-12Noon	G I Hormones PY 4.5, Gastric function test PY 4.8	3. The source of GI hormones, their regulation and functions 4. Explain the gastric function tests	SGD/SDL
11/12/19 Wednesday	9-10am	Surfactant PY 6.2	1. Significance, composition and functions of surfactant	Dr Indira Kumari K R
	10-12Noon	Revision	Hematology and experimental Physiology	
12/12/19 Thursday	8-9M	Functional Anatomy of heart PY5.1	1. Describe the location of the heart, the chambers and vessels opening into and leaving it, septa, valves, layers and covering of the heart. 2. Describe the nerve supply of the heart	Dr Arun K Prakash
	10-12Noon	Revision	Hematology and experimental Physiology	
13/12/19 Friday	10-11am	Lung volumes and capacities. PY 6.2	1. Describe the various standard lung volumes and capacities giving normal values 2. Describe anatomical and physiological dead space and mention the method of measurement of dead space	Dr Reena Alexander

	11-12noon	Cardiovascular regulation PY5.8	1. Describe the local cardiovascular regulatory mechanisms	Dr Nithi Varghese
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WEEK 15				
Date	Time	Topic	SLO (The student should be able to)	Faculty
24/12/19 Tuesday	8-9M	Compliance .PY 6.2	1. Describe static and dynamic lung compliance	Dr Reena Alexander
	10-12Noon	Revision	Question paper discussion	
26/12/19 Thursday	8-9M	Conduction system PY 5.1,5.4	<ol style="list-style-type: none"> 1. Describe the pace maker tissue -SA node, AV node (location and functions) and what is ectopic pacemaker. 2. Describe the parts of the conducting system of the heart 3. Explain how the cardiac impulse is generated in the SA node and why SA node is the pacemaker of the heart. 4. Describe the spread of cardiac impulse from SA node to the ventricles, A-V nodal delay and conduction blocks. 	Dr Arun K Prakash
	10-12Noon	Revision	Question paper discussion	
27/12/19 Friday	10-11am	Surfactant	<ol style="list-style-type: none"> 2. Describe factors influencing pulmonary surface tension 3. List applications of Law of Laplace 4. Describe infant respiratory distress syndrome 	Dr Indira Kumari K R
	11-	ECG(Lecture) PY5.5	1. Describe the various leads used to record ECG.	Dr Arun K Prakash

	12noon		2. Describe the cardiac vector	
28/12/19 Saturday	9-10am	Cardiovascular regulation PY5.8	1. Describe the systemic cardiovascular regulatory mechanisms	Dr Nithi Varghese

WEEK 16				
Date	Time	Topic	SLO (The student should be able to)	Faculty
30/12/19 Monday	9-10am	Cardiac output PY 5.9	1. Describe the regulation of cardiac output including heterometric and homometric regulation	Dr Nithi Varghese
	10-12Noon	General Examination PY 11.13	1. Perform General examination of a subject	Dr Reena Alexander
31/12/19 Tuesday	8-9M	Ventilation, V/P ratio, diffusion capacity of lungs. PY 6.2	1. Give the normal ventilation / perfusion ratio of the lungs and conditions in which it varies 2. Describe the changes in ventilation / perfusion ratio at various level of lungs in upright position	Dr Reena Alexander
	10-12Noon	General Examination PY 11.13	1. Perform General examination of a subject	Dr Reena Alexander

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

DEPARTMENT OF BIOCHEMISTRY

1st YEAR MBBS BATCH 2019

THEORY TEACHING SCHEDULE FOR DECEMBER 2019

DATE	TIME	TOPIC	SLO	FACULTY
02.12.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe the sources, RDA, absorption and transportation of Iron.	Dr.Desigamani
		Enumerate and describe the disorders associated with mineral metabolism BI 6.10	Describe the systemic and cellular Iron homeostasis.	

03.12.2019	9.00-10.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Discuss the significance of gluconeogenesis	Dr.Anju
		Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	Discuss the regulation of gluconeogenesis	

05.12.2019	9.00-10.00 am	Describe the functions of Haem in the body and describe the processes involved in its metabolism and describe the porphyrin metabolism BI 6.11	Discuss about Heme structure and its biomedical importance.	Dr.Sneha
			Describe the Synthesis and regulation of heme.	
			Discuss about porphyrias	
06.12.2019	8.00-9.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	Describe Purine salvage pathway	Dr.Asha
			Describe Significance of purine salvage pathway	
			Describe Inhibitors of purine synthesis	
			Describe Catabolism of purine	

09.12.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe, how imbalances in iron homeostasis contribute various diseases.	Dr.Desigamani
10.12.2019	9.00-10.00 am	Describe the different types of haemoglobin and its derivatives found in the body and their physiological/pathological relevance BI 6.12	Narrate the importance of structure of Haemoglobin	Dr.Prabhakaran
			Classify various types of haemoglobin and their significance.	
			Delineate the binding mechanism of oxygen to haemoglobin	

12.12.2019	9.00-10.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	<p>Discuss the normal level of Uric Acid and its clinical significance</p> <hr/> <p>Describe Gout - Classifications, Clinical Features and Treatment</p>	Dr.Asha
13.12.2019	8.00-9.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Describe glycogenesis	Dr.Anju

		Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	Describe the significance of glycogenesis	
16.12.2019 To 23.12.2019	First Internal Examination			
24.12.2019	9.00-10.00 am	Describe the functions of Haem in the body and describe the processes involved in its metabolism and describe the porphyrin metabolism BI 6.11	Describe types of Porphyrrias and enzyme defects. Discuss the manifestations and investigations in porphyrias	Dr.Sneha

26.12.2019	9.00-10.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe the homeostasis and biochemical functions of trace elements sulphur and iodine.	Dr.Desigamani
		Enumerate and describe the disorders associated with mineral metabolism BI 6.10	Describe the homeostasis and biochemical functions of phosphorous and associated disorders.	
27.12.2019	8.00-9.00	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Describe glycogenolysis Describe the significance of glycogenolysis	Dr. Anju

27.12.2019	am	Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	<p>Discuss the regulation of glycogenesis and glycogenolysis</p> <p>Discuss the disorder of glycogenesis</p>	Dr. Anju
28.12.2019	10.00-12.00 am	Early Clinical Exposure Vitamins, Minerals (SGD) deficiency		Dr. Asha, Dr. Sneha, Dr. Anju
30.12.2019	8.00-9.00 am	Describe the different types of haemoglobin and its derivatives found in the body and their physiological/pathological relevance BI	Explain the transport mechanism of haemoglobin and factors affecting the transport of hemoglobin	Dr. Prabhakaran

		6.12	Categorize the different types of hemoglobinopathies and thalessemia.	
31.12.2019	9.00-10.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	Discuss about Lesch Nyhan syndrome, Its biochemical basis and Clinical Features. Discuss about ADA deficiency, Purine nucleosides, phosphorylase deficiency, Xanthomas	Dr.Asha

Dr.Asha Augusthy

Professor & HOD

Department of Biochemistry

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

Date. 0	Time	Topic/Competency	SLO	Faculty
	1-1:30pm	Describe the diseases in the context of the associated disabilities and discuss measures to prevent them Describe the government run programs, schemes, legislations and legal services available for patients/persons with disabilities	<ol style="list-style-type: none"> 1. Define disability 2. Differentiate between Impairment, Disability and Handicap 3. Enlist the types of disability 4. List the preventive measures and measures taken by the government for disability limitation 	KK

05-12-2019	1:30-2pm	Show respect for the autonomy of patients with disabilities, or to their caregivers	<ol style="list-style-type: none"> 1. Enlist the various problems faced by the persons with intellectual disability 2. Discuss the various methods adopted for disability limitation 	Faculty-Snehade epam BUDS school
	2-4pm	Demonstrate a non-discriminatory attitude towards patients or caregivers with disabilities and a commitment to provide to them care of same quality as to others	Extempore on the theme-The future is accessible (International day of Persons with disability	ATS

12-12-2019	1-2pm		<ol style="list-style-type: none"> 1. Define and discuss the effects of food additives 2. Define and describe the methods of food fortification 	VC
	2-3pm	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration (CM5.8)	<ol style="list-style-type: none"> 1. Define food adulteration 2. Enlist the common food adulterants 3. List the public health acts related to prevention of food adulteration 	KN

	3-4pm	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)	Discuss the performance related to clinico socio-cultural and demographic assessment of the individual, family and community	AR
19-12-2019	1-4pm	First Internal Assessment (Practical)- Anatomy / Physiology / Biochemistry		

26-12-2019	1-4pm	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)	Demonstrate the clinico socio-cultural and demographic assessment of the individual, family and community (Field visit)	ATS/NG /Interns
Prof. Dr. Alexander John				
: of Community Medicine				

Phase 1 Monthly Time Table - December 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
	01-Dec	Sunday								
	02-Dec	Mon	Iron (Lectures) BI 6.9, 6.10	Introducti on to cardiac muscle(Le cture) PY 3.7, 5.2	Respiratory System AN 25.1 DOAP			Pleura AN 24.1 Lecture TJ	Mediastinum AN 21.11,23.1-7 DOAP	
		Normal cardiogram, Effect of temperature, Stannius ligature PY 3.18								
		Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1								
	03-Dec	Tue	Cardiac cycle (Lectures) PY 5.3	Carbohyd rate Metabolis m (Lectures) BI 3.4	Respiratory System AN 25.1 DOAP			Lung AN 24.2-6 Lecture AP	Pleura and Lung AN 24.1-4 DOAP	
		Normal cardiogram, Effect of temperature, Stannius ligature PY 3.18								

Week 12

			3.5	Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1
04-Dec	Wed	CVS Embryology AN 25.2-25.6 Lecture	Cardiac cycle (Lectures) PY 5.3	Respiratory System AN 25.1 DOAP Vagal stimulation, Refractory period PY 3.18 Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1
05-Dec	Thu	Introduction to respiration (Lecture) PY 6.1	Heme Metabolism (Lectures) BI 6.11	Vagal stimulation, Refractory period PY 3.18

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Pericardium AN 22.1 Lecture SV	Pleura and Lung AN 24.1-4 DOAP		
<p>Describe the diseases in the context of the associated disabilities and discuss measures to prevent them. Describe the government run programs, schemes, legislations and legal services available for patients/persons with disabilities. Show respect for the autonomy of patients with disabilities, or to their caregivers.</p> <p>Demonstrate a non-discriminatory attitude towards patients or caregivers with disabilities and a commitment to provide to them</p>			

					Estimation of Total Protein (DOAP) BI 11.21. Lipid Chemistry (SGD) BI 4.1		Commitment to provide to them care of same quality as to others.
06-Dec	Fri	Nucleotide Metabolism (Lectures) BI 6.3	CVS Embryology AN 25.2-25.6 Lecture	Introduction to respiration (Lecture) PY 6.1	Mechanism of respiration (Lecture) PY 6.2		Pleura and Lung AN 24.1-4 DOAP
07-Dec	Sat	CVS Embryology AN 25.2-25.6 Lecture	Mechanism of respiration (Lecture) PY 6.2	Thoracic Vertebrae AN 22.1,2,8 SGD	Heart AN 22.1-7 DOAP	Heart 1 AN 22.1-7 Lecture TJ	Heart AN 22.1-7 DOAP
08-Dec	Sunday						
09-Dec	Mon	Iron (Lectures) BI 6.9, 6.10	Cardiac cycle (Lecture) PY 5.3	Histology Revision GI Hormones PY 4.5, Gastric function test PY 4.8 (SGD) Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva		Heart 2 AN 22.1-7 Lecture AP	Heart AN 22.1-7 DOAP
10-Dec	Tue	Cardiac muscle (Lecture) PY 3.8, 5.2, 5.4	Hemoglobin (Lectures) BI 6.12	Histology Revision GI Hormones PY 4.5, Gastric function test PY 4.8 (SGD) Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva		Posterior Mediastinum 1 AN 23.1-7 KJ	Heart AN 22.1-7 DOAP

Week 13	11-Dec	Wed	CVS Embryology AN 25.2-25.6 Lecture	Surfactant (Lecture) PY 6.2	Histology Revision		LUNCH BREAK	Posterior Mediastinum 2 AN 23.1-7 SV	Posterior Mediastinum AN 23.1-7 DOAP
					Revision				
					Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva				
	12-Dec	Thu	Functional Anatomy of heart PY5.1	Nucleotide Metabolism (Lectures) BI 6.3	Histology Revision		Describe and discuss the importance and methods of food fortification and effects of additives and adulteration (CM5.8) Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)		
					Revision				
					Estimation of Albumin (DOAP) BI 11.8 Internal - Theory Viva				
	13-Dec	Fri	Carbohydrate Metabolism (Lectures) BI 3.4, 3.5	CVS Embryology AN 25.2-25.6 Lecture	Lung volume and capacities (Lecture) PY 6.2	Cardiovascular regulation (Lecture) PY 5.8		Radiology Surface Marking of Thorax AN 25.7-9 DOAP	
	14-Dec	Second Saturday							
	15-Dec	Sunday							
	16-Dec	Mon	First Internal Assessment -Anatomy						
	17-Dec	Tue	First Internal Assessment - Physiology						

Week 14	18-Dec	Wed	First Internal Assessment -Biochemistry				
	19-Dec	Thu	First Internal Assessment (Practical)-Anatomy / Physiology / Biochemistry				
	20-Dec	Fri					
	21-Dec	Sat					
	22-Dec	Sunday					
Week 15	23-Dec	Mon	First Internal Assessment (Practical)-Anatomy / Physiology / Biochemistry				
	24-Dec	Tue	Compliance (Lecture). PY 6.2	Heme Metabolism (Lectures) BI 6.11	Revision Estimation of Urea (DOAP) BI 11.21	LUNCH BREAK	SDL
	25-Dec	Wed	Christmas				
	26-Dec	Thu	Conduction system PY 5.1,5.4	Phosphorus, Sulphur, Iodine (SDL) BI 6.9, 6.10	Revision Estimation of Urea (DOAP) BI 11.21		Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)

	27-Dec	Fri	Carbohydrate Metabolism (Lectures) BI 3.4, 3.5	Histology Of GIT 1 AN 52.1 Lecture	Surfactant (Lecture) PY 6.2	ECG(Lecture)PY5.5	LUNCH BREAK		Structural organization of nervous system DOAP
	28-Dec	Sat	Scalp AN 27.1-2 Lecture	Cardiovascular regulation (Lecture)PY 5.8	Early Clinical Exposure Vitamins, Minerals (SGD)				Introduction to Head and Neck and Scalp 27.1-2 DOAP
	29-Dec	Sunday							
Week 16	30-Dec	Mon	Hemoglobin(Lectures) BI 6.12	Cardiac output(Lecture) PY 5.9	Histology Of GIT 1 AN 52.1 DOAP General examination Estimation of Creatinine (DOAP) BI .Nucleotide Chemistry BI 6.211.21		LUNCH BREAK	Norma Verticalis & Frontalis AN 26.2 SGD	Face AN 28.1-3,6 DOAP
	31-Dec	Tue	Ventilation, V/P ratio, diffusion capacity of lungs. (Lecture) PY 6.2	Nucleotide Metabolism (Lectures) BI 6.3	Histology Of GIT 1 AN 52.1 DOAP General examination Estimation of Creatinine (DOAP) BI .Nucleotide Chemistry BI 6.211.21			Norma Lateralis & Occipitalis AN 26.2 SGD	Face AN 28.1-3,6 DOAP

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA				
DEPARTMENT OF ANATOMY				
FIRST YEAR MBBS BATCH 2019				
THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF DECEMBER 2019				
Date	Time	Topic	SLOs	Faculty
02-12-2019 to 05-12-2019	10-12am	Respiratory System AN 25.1 DOAP	Identify, draw and label a slide of trachea and lung	ALL
02-12-2019	1-2pm	Pleura AN 24.1 Lecture TJ	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy Describe the plural ligaments and the blood supply, lymphatic drainage and nerve supply of pleura accurately. Anatomical basis of referred pain of the pleura, pleural tap (thoracocentesis) and clinical terminology related to pleura.	TJ
02-12-2019	2-4pm	Mediastinum AN 21.11,23.1 7 DOAP	Mention boundaries and contents of the superior, anterior, middle and posterior mediastinum Describe & demonstrate the extent, relations tributaries of thoracic duct and enumerate its applied anatomy Describe & demonstrate the external appearance, relations, blood supply, nerve supply, lymphatic drainage and applied anatomy of oesophagus Describe & demonstrate origin, course, relations, tributaries and termination of superior venacava, azygos, hemiazygos and accessory hemiazygos veins Mention the extent, branches and relations of arch of aorta	ALL

03-12-2019	1-2pm	Lung AN 24.2-6 Lecture AP	Describe the external features and relations of apex, base, borders, and surfaces of lung and side Describe the lobes and fissures of lung and also can describe root of lung and identify structures in hilum of lung on both sides. Anatomical basis pancoast syndrome and horner's syndrome . Lobes , accessory lobes and fissures Describe, name and enumerate a bronchopulmonary segment, and bronchial tree and its parts. Describe the origin, course, relations, branches and distribution of bronchial arteries and pulmonary arteries. Describe tributaries and relations of Bronchial vains and pulmonary vains and lymphatic vessels and nodes and drainage of lung Describe the location, extent, length, course and relations, of trachea.	
04-12-2019	8-9am	CVS Embryology AN 25.2-25.6 Lecture	Describe fetal circulation and changes occurring at birth Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	ALL
04-12-2019	1-2pm	Pericardium AN 22.1 Lecture SV	Describe the subdivisions of pericardium accurately To name the nerve supply and arterial supply of the pericardium Define and name the pericardial sinuses and enumerate their important boundaries	AD
04-12-2019,06-12-2019	2-4pm	Pleura and Lung AN 24.1-4 DOAP	Mention the blood supply, lymphatic drainage and nerve supply of pleura, extent of pleura and describe the pleural recesses and their applied anatomy Anatomical basis of referred pain of the pleura, pleural tap (thoracocentesis) and clinical terminology related to pleura. describe the external features and relations of apex, base, borders, and surfaces of lung and side identify and describe the lobes and fissures of lung and also can describe root of lung and identify structures in hilum of lung on both sides. Describe, name and ennumaret a bronchopulmonary segment, and bronchial tree and its parts.	All

06-12-2019, 07-12-2019, 13-12-2019	9-10 am 8-9am	CVS Embryology AN 25.2-25.6 Lecture	Describe fetal circulation and changes occurring at birth Describe embryological basis of: 1) atrial septal defect, 2) ventricular septal defect, 3) Fallot's tetralogy & 4) tracheo-oesophageal fistula	
07-12-2019	10-12am	Thoracic Vertebrae AN 22.1,2,8 SGD	Identify and describe the salient features of sternum, typical rib, 1st rib and typical thoracic vertebra Identify & describe the features of 2nd, 11th and 12th ribs, 1st, 11th and 12th thoracic vertebrae Describe & demonstrate type, articular surfaces & movements of manubriosternal, costovertebral, costotransverse and xiphisternal joints	All
07-12-2019 09-12-2019 10-12-2019	02-Apr	Heart AN 22.1-7 DOAP	Describe the subdivisions of pericardium accurately To name the nerve supply and arterial supply of the pericardium Define and name the pericardial sinuses and enumerate their important boundaries Describe the external features, surfaces, borders, apex, base (anatomical vs clinical) of the heart Describe the parts, openings and salient features of interior of right atrium Describe the interior of both ventricles	ALL
09-12-2019	1-2pm	Heart 2 AN 22.1-7 Lecture AP	Describe the origin, course and branches of right and left coronary arteries separately Describe the area of supply of left and right coronary artery Describe the salient features of atherosclerosis Describe the effects of altered blood supply to myocardium	AP

10-12-2019	1-2PM	Posterior Mediastinum 1 AN 23.1-7 KJ	<p>Define Mediastinum,mention the boundaries &contents of each</p> <p>Describe the extent of oesophagus,location, constrictions,relations,blood supply,nerve supply,lymphatic drainage&applied anatomy</p> <p>Mention the extent, branches and relations of arch of aorta & descending thoracic aorta</p> <p>Describe extent,relations,tributaries of Thoracic duct &applied anatomy</p> <p>Describe the origin, extent, course, relations,tributaries of azygos vein & its clinical significance.</p> <p>Describe origin, course, extent,relations,tributaries of superior vena cava.</p> <p>Mention the location &extent of Thoracic sympathetic chain</p>	TJ
11-12-2019	1-2pm	Posterior Mediastinum 1 AN 23.1-7 KJ	<p>Define Mediastinum,mention the boundaries &contents of each</p> <p>Describe the extent of oesophagus,location, constrictions,relations,blood supply,nerve supply,lymphatic drainage&applied anatomy</p> <p>Mention the extent, branches and relations of arch of aorta & descending thoracic aorta</p> <p>Describe extent,relations,tributaries of Thoracic duct &applied anatomy</p> <p>Describe the origin, extent, course, relations,tributaries of azygos vein & its clinical significance.</p> <p>Describe origin, course, extent,relations,tributaries of superior vena cava.</p> <p>Mention the location &extent of Thoracic sympathetic chain</p>	KJ

11-12-2019	2-4pm	Posterior Mediastinum AN 23.1-7 DOAP	<p>Define Mediastinum, mention the boundaries & contents of each</p> <p>identify & Describe the extent of oesophagus, location, constrictions, relations, blood supply, nerve supply, lymphatic drainage & applied anatomy</p> <p>Mention the extent, branches and relations of arch of aorta & descending thoracic aorta</p> <p>identify & Describe extent, relations, tributaries of Thoracic duct & applied anatomy</p> <p>identify & Describe the origin, extent, course, relations, tributaries of azygos vein & its clinical significance.</p> <p>identify & Describe origin, course, extent, relations, tributaries of superior vena cava.</p> <p>Mention the location & extent of Thoracic sympathetic chain</p>	All
13-12-2019	2-4pm	Radiology Surface Marking of Thorax AN 25.7-9 DOAP	<p>Identify structures seen on a plain x-ray chest (PA view)</p> <p>Demonstrate surface marking of lines of pleural reflection, lung borders and fissures, trachea, heart borders, apex beat & surface projection of valves of heart</p>	All
27-12-2019	9-10 am	Histology Of GIT 1 AN 52.1 Lecture	<p>Describe the microanatomical features of Gastro-intestinal system:</p> <p>Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland</p>	KJ
30-12-2019 & 31-12-2019	10-12am	Histology Of GIT 1 AN 52.1 DOAP	<p>identify the microanatomical features of Gastro-intestinal system:</p> <p>Oesophagus, Fundus of stomach, Pylorus of stomach, Duodenum, Jejunum, Ileum, Large intestine, Appendix, Liver, Gall bladder, Pancreas & Suprarenal gland</p>	All

30-12-2019 & 31-12-2019	1-2pm	Norma Verticalis & Frontalis Lateralis & OccipitalisAN 26.2 SGD	Enumerate the bones forming the norma frontalis, verticalis, occipitalis, lateralis and basalis correctly Enumerate the sutures and bones forming the sutures in the norma frontalis, verticalis, occipitalis, lateralis and basalis correctly Enumerate the bony foramina in all normas correctly Identify the bony foramina in all normas correctly Enumerate the structures passing through the foramina in all normas correctly Describe bregma, pterion, nasion and vertex in the Normas correctly) Enumerate the fontanelles and year of its closure in foetal skull correctly Enumerate the structures attached to the styloid and mastoid processes correctly	All
30-12-2019 & 31-12-2019	2-4pm	Face AN 28.1- 3,6 DOAP	List the muscles of facial expression. Describe the attachments, nerve supply & actions of the muscles facial expression in detail. Identify all the muscles of facial expression and demonstrate their attachments, nerve supply and actions in a cadaver. Describe the sensory innervation of face. Identify the sensory nerves of face in a cadaver and demonstrate their origin and areas of face supplied by them. List the arteries supplying the face. Describe the origin/formation, course, termination and branches/tributaries of facial vessels. Identify the facial vessels and demonstrate their origin, course, termination and branches/tributaries in a cadaver.	All

SreeNarayana Institute of Medical Sciences, Chalakka

Department of Physiology

2019 Reg. Batch

Theory & Practical Classes Schedule for the month of December-2019

WEEK 12				
Date	Time	Topic	SLO (The student should be able to)	Faculty
02/12/19 Monday	9-10am	Introduction to cardiac muscle PY 3.7, 5.2	<ol style="list-style-type: none"> 1. Structure of cardiac muscle 2. Excitation, contraction, coupling in cardiac muscle 3. Properties of cardiac muscle 	Dr Arun K Prakash
	10-12Noon	<ol style="list-style-type: none"> 1. Normal cardiogram, 2. Effect of temperature, 3. Stannius ligature PY3.18	<ol style="list-style-type: none"> 1. Draw and interpret amphibian cardiac experiments 	Dr Nithi Varghese Dr Jincy Joseph Dr Arun K Prakash
03/12/19 Tuesday	8-9M	Cardiac cycle PY5.3	<ol style="list-style-type: none"> 1. Define cardiac cycle with duration and list the phases of cardiac cycle. 	Dr Nithi Varghese
	10-12Noon	<ol style="list-style-type: none"> 1. Normal cardiogram, 2. Effect of temperature, 3. Stannius ligature PY3.18	<ol style="list-style-type: none"> 1. Draw and interpret amphibian cardiac experiments 	Dr Nithi Varghese Dr Jincy Joseph Dr Arun K Prakash
04/12/19 Wednesday	9-10am	Cardiac cycle PY5.3	<ol style="list-style-type: none"> 1. Describe the pressure and volume changes in the left and right ventricles, atria, aorta and pulmonary artery. 	Dr Nithi Varghese

	10-12Noon	1.Vagal stimulation, 2.Refractory period PY3.18	1. Draw and interpret amphibian cardiac experiments	Dr Ahana Salam Dr Arun K Prakash
05/12/19 Thursday	8-9M	Introduction to respiration PY6.1	1. Describe structural and functional divisions of respiratory tract and lungs 2. Describe external and internal respiration 3. List of layers of pleura and its clinical significance.	Dr Indira Kumari K R
	10-12Noon	1.Vagal stimulation, 2.Refractory period PY3.18	1. Draw and interpret amphibian cardiac experiments	Dr Ahana Salam Dr Arun K Prakash
06/12/19 Friday	10-11am	Introduction to respiration PY6.1	3. Describe functions of upper respiratory tract 4. Describe the non respiratory function of lungs.	Dr Indira Kumari K R
	11-12noon	Mechanics of respiration. PY 6.2	1. Describe type of expansion of thoracic cage during respiration 2. Describe the role of inspiratory and expiratory muscles during quiet respiration and forceful respiration.	Dr Reena Alexander
07/12/2019	9-10am	Mechanics of respiration. PY 6.2	1. Describe physiological basis for negative intrapleural pressure, its importance and its variations during different phases of respiration	Dr Reena Alexander

WEEK 13				
Date	Time	Topic	SLO (The student should be able to)	Faculty
09/12/19 Monday	9-10am	Cardiac cycle PY5.3	1. Describe the heart sounds – causes, character and abnormalities.	Dr Nithi Varghese
	10-12Noon	G I Hormones PY 4.5, Gastric function test PY 4.8	1. The source of GI hormones, their regulation and functions 2. Explain the gastric function tests	SGD/SDL
10/12/19 Tuesday	8-9M	Cardiac muscle PY 3.8, 5.2, 5.4	4. Describe action potential in cardiac muscle 5. Describe pacemaker potential	Dr Arun K Prakash
	10-12Noon	G I Hormones PY 4.5, Gastric function test PY 4.8	3. The source of GI hormones, their regulation and functions 4. Explain the gastric function tests	SGD/SDL
11/12/19 Wednesday	9-10am	Surfactant PY 6.2	1. Significance, composition and functions of surfactant	Dr Indira Kumari K R
	10-12Noon	Revision	Hematology and experimental Physiology	
12/12/19 Thursday	8-9M	Functional Anatomy of heart PY5.1	1. Describe the location of the heart, the chambers and vessels opening into and leaving it, septa, valves, layers and covering of the heart. 2. Describe the nerve supply of the heart	Dr Arun K Prakash
	10-12Noon	Revision	Hematology and experimental Physiology	
13/12/19 Friday	10-11am	Lung volumes and capacities. PY 6.2	1. Describe the various standard lung volumes and capacities giving normal values 2. Describe anatomical and physiological dead space and mention the method of measurement of dead space	Dr Reena Alexander

	11-12noon	Cardiovascular regulation PY5.8	1. Describe the local cardiovascular regulatory mechanisms	Dr Nithi Varghese
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WEEK 15				
Date	Time	Topic	SLO (The student should be able to)	Faculty
24/12/19 Tuesday	8-9M	Compliance .PY 6.2	1. Describe static and dynamic lung compliance	Dr Reena Alexander
	10-12Noon	Revision	Question paper discussion	
26/12/19 Thursday	8-9M	Conduction system PY 5.1,5.4	<ol style="list-style-type: none"> 1. Describe the pace maker tissue -SA node, AV node (location and functions) and what is ectopic pacemaker. 2. Describe the parts of the conducting system of the heart 3. Explain how the cardiac impulse is generated in the SA node and why SA node is the pacemaker of the heart. 4. Describe the spread of cardiac impulse from SA node to the ventricles, A-V nodal delay and conduction blocks. 	Dr Arun K Prakash
	10-12Noon	Revision	Question paper discussion	
27/12/19 Friday	10-11am	Surfactant	<ol style="list-style-type: none"> 2. Describe factors influencing pulmonary surface tension 3. List applications of Law of Laplace 4. Describe infant respiratory distress syndrome 	Dr Indira Kumari K R
	11-	ECG(Lecture) PY5.5	1. Describe the various leads used to record ECG.	

	12noon		2. Describe the cardiac vector	
28/12/19 Saturday	9-10am	Cardiovascular regulation PY5.8	1. Describe the systemic cardiovascular regulatory mechanisms	Dr Nithi Varghese

WEEK 16				
Date	Time	Topic	SLO (The student should be able to)	Faculty
30/12/19 Monday	9-10am	Cardiac output PY 5.9	1. Describe the regulation of cardiac output including heterometric and homometric regulation	Dr Nithi Varghese
	10-12Noon	General Examination PY 11.13	1. Perform General examination of a subject	Dr Reena Alexander
31/12/19 Tuesday	8-9M	Ventilation, V/P ratio, diffusion capacity of lungs. PY 6.2	1. Give the normal ventilation / perfusion ratio of the lungs and conditions in which it varies 2. Describe the changes in ventilation / perfusion ratio at various level of lungs in upright position	Dr Reena Alexander
	10-12Noon	General Examination PY 11.13	1. Perform General examination of a subject	Dr Reena Alexander

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA
DEPARTMENT OF BIOCHEMISTRY
1st YEAR MBBS BATCH 2019

THEORY TEACHING SCHEDULE FOR DECEMBER 2019

DATE	TIME	TOPIC	SLO	FACULTY
02.12.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe the sources, RDA, absorption and transportation of Iron.	Dr.Desigamani
		Enumerate and describe the disorders associated with mineral metabolism BI 6.10	Describe the systemic and cellular Iron homeostasis.	

03.12.2019	9.00-10.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Discuss the significance of gluconeogenesis	Dr.Anju
		Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	Discuss the regulation of gluconeogenesis	

05.12.2019	9.00-10.00 am	Describe the functions of Haem in the body and describe the processes involved in its metabolism and describe the porphyrin metabolism BI 6.11	Discuss about Heme structure and its biomedical importance.	Dr.Sneha
			Describe the Synthesis and regulation of heme.	
			Discuss about porphyrias	
06.12.2019	8.00-9.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	Describe Purine salvage pathway	Dr.Asha
			Describe Significance of purine salvage pathway	
			Describe Inhibitors of purine synthesis	
			Describe Catabolism of purine	

09.12.2019	8.00-9.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe, how imbalances in iron homeostasis contribute various diseases.	Dr.Desigamani
10.12.2019	9.00-10.00 am	Describe the different types of haemoglobin and its derivatives found in the body and their physiological/pathological relevance BI 6.12	<p>Narrate the importance of structure of Haemoglobin</p> <p>Classify various types of haemoglobin and their significance.</p> <p>Delineate the binding mechanism of oxygen to haemoglobin</p>	Dr.Prabhakaran

12.12.2019	9.00-10.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	Discuss the normal level of Uric Acid and its clinical significance	Dr.Asha
			Describe Gout - Classifications, Clinical Features and Treatment	
13.12.2019	8.00-9.00 am	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Describe glycogenesis	Dr.Anju

		Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	Describe the significance of glycogenesis	
16.12.2019 To 23.12.2019	First Internal Examination			
24.12.2019	9.00-10.00 am	Describe the functions of Haem in the body and describe the processes involved in its metabolism and describe the porphyrin metabolism BI 6.11	Describe types of Porphyrrias and enzyme defects.	Dr.Sneha
			Discuss the manifestations and investigations in porphyrias	

26.12.2019	9.00-10.00 am	Describe the functions of various minerals in the body, their metabolism and homeostasis BI 6.9	Describe the homeostasis and biochemical functions of trace elements sulphur and iodine.	Dr.Desigamani
		Enumerate and describe the disorders associated with mineral metabolism BI 6.10	Describe the homeostasis and biochemical functions of phosphorous and associated disorders.	
27.12.2019	8.00-9.00	Define and differentiate the pathways of carbohydrate metabolism (glycolysis, gluconeogenesis, glycogen metabolism, HMP shunt). BI 3.4	Describe glycogenolysis	Dr Anju
			Describe the significance of glycogenolysis	

27.12.2019	am	Describe and discuss the regulation, functions and integration of carbohydrate along with associated diseases/disorders BI 3.5	Discuss the regulation of glycogenesis and glycogenolysis Discuss the disorder of glycogenesis	Dr. Anju
28.12.2019	10.00-12.00 am	Early Clinical Exposure Vitamins, Minerals (SGD) deficiency		Dr. Asha, Dr. Sneha, Dr. Anju
30.12.2019	8.00-9.00 am	Describe the different types of haemoglobin and its derivatives found in the body and their physiological/pathological relevance BI	Explain the transport mechanism of haemoglobin and factors affecting the transport of hemoglobin	Dr. Prabhakaran

		6.12	Categorize the different types of hemoglobinopathies and thalessemia.	
31.12.2019	9.00-10.00 am	Describe the common disorders associated with nucleotide metabolism BI 6.3	Discuss about Lesch Nyhan syndrome, Its biochemical basis and Clinical Features. Discuss about ADA deficiency, Purine nucleosides, phosphorylase deficiency, Xanthomas	Dr.Asha

Dr.Asha Augusthy
Professor & HOD
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SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA
DEPARTMENT OF COMMUNITY MEDICINE
THEORY AND PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF DECEMBER 2019
(2019 MBBS Batch)

Date. 0	Time	Topic/Competency	SLO	Faculty
	1-1:30pm	Describe the diseases in the context of the associated disabilities and discuss measures to prevent them Describe the government run programs, schemes, legislations and legal services available for patients/persons with disabilities	<ol style="list-style-type: none"> 1. Define disability 2. Differentiate between Impairment, Disability and Handicap 3. Enlist the types of disability 4. List the preventive measures and measures taken by the government for disability limitation 	KK

05-12-2019	1:30-2pm	Show respect for the autonomy of patients with disabilities, or to their caregivers	<ol style="list-style-type: none"> 1. Enlist the various problems faced by the persons with intellectual disability 2. Discuss the various methods adopted for disability limitation 	Faculty-Snehadeepam BUDS school
	2-4pm	Demonstrate a non-discriminatory attitude towards patients or caregivers with disabilities and a commitment to provide to them care of same quality as to others	Extempore on the theme-The future is accessible (International day of Persons with disability	ATS

12-12-2019	1-2pm		<ol style="list-style-type: none"> 1. Define and discuss the effects of food additives 2. Define and describe the methods of food fortification 	VC
	2-3pm	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration (CM5.8)	<ol style="list-style-type: none"> 1. Define food adulteration 2. Enlist the common food adulterants 3. List the public health acts related to prevention of food adulteration 	KN

	3-4pm	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)	Discuss the performance related to clinico socio-cultural and demographic assessment of the individual, family and community	AR
19-12-2019	1-4pm	First Internal Assessment (Practical)- Anatomy / Physiology / Biochemistry		

26-12-2019	1-4pm	Describe the steps and perform clinico socio-cultural and demographic assessment of the individual, family and community (CM2.1)	Demonstrate the clinico socio-cultural and demographic assessment of the individual, family and community (Field visit)	ATS/NG /Interns
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Prof. Dr. Alexander John

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