Phase 1 Monthly Time Table - February 2020										
Week	**Day**	**Date**	8-9am	9-10am	10-11am	11-12pm	12-1pm	1-2pm	2-3pm	3-4pm
Week20	**01-02-2020**	Saturday	Embryology Tongue Palate AN 43.4 Lecture	General Endocrinology PY8.6 (Lectures)	SDL		Lunch	Early Clinical exposure Thyroid - Dept of Surgery		
	02-02-2020	**Sunday**								
	03-02-2020	Monday	Metabolism in well fed and fasting state (Lectures) BI 6.1	Introduction - Thyroid hormones and biosynthesis PY 8.2 (Lectures)	Eye AN 43.2,3 DOAP			Thyroid Lecture AP AN 35.2,8	Histology - Thyroid Lecture KJ AN 52.1, 43.2	Orbit AN 31.1-5 DOAP
					ECG PY5.13					
					Estimation of Phosphorus (Demonstration) BI 11.11. Replication, Telomere, Mismatch, Base excision DNA repair- Seminar					

Week 21	**04-02-2020**	Tuesday	Regulation and actions of thyroid hormones PY 8.2 (Lectures)	DNA repair mechanism, Structure of RNA (Lectures) BI 7.2, 7.1	Eye AN 43.2,3 DOAP	Lunch	Parotid AN 28.9,10 DOAP	
					ECG PY5.13			
	05-02-2020	Wednesday	Parotid AN 28.9,10 Lecture AP	Actions of thyroid hormones PY8.2 (Lectures)	Eye AN 43.2,3 DOAP		Parotid AN 28.9,10 DOAP	
					Arterial Pulse PY5.15			
					Estimation of Phosphorus (Demonstration) BI 11.11. Replication, Telomere, Mismatch, Base excision DNA repair- Seminar			
	06-02-2020	Thursday	Disorders of thyroid	BMR, SDA (Lectures) BI	Eye AN 43.2,3 DOAP		Describe manmade disasters in the	End-Semester Summative Assessment and Feedback
					Arterial Pulse PY5.15			

	06-02-2020	Thursday	hormones PY 8.2 (Lectures)	(Lectures) BI 8.1, 8.5	Estimation of Phosphorus (Demonstration) BI 11.11. Replication, Telomere, Mismatch, Base excision DNA repair- Seminar			in the world and in India (CM 13.3)	
	07-02-2020	Friday	TFT (Lectures) BI 6.13, 6.14	Histology CNS AN 64.1 Lecture KJ	Describe and discuss the physiology of high altitude PY6.4 (Lectures)	Clinical aspects of thyroid disorders	Lunch		Submandibular region AN 34.1,2 DOAP
	08-02-2020	Second Saturday							
	09-02-2020	Sunday							
	10-02-2020	Monday	Cerebral circulation PY 5.10 (Lectures)	Nutritional Importance of Carbohydrates (SDL) BI 8.5	Submandibular region AN 34.1,2 DOAP				CNS AN 64.1 DOAP Examination of Abdomen PY 4.10

			(Lectures)	(SDL) BI 6.5			Estimation of Serum Bilirubin (Demonstration) BI 11.12. aundice Minor pathway of Carbohydrate (SGD)
	11-02-2020	Tuesday	Coronary circulation PY5.10 (Lectrues)	Infra temporal fossa AN 33.1-5 Lecture EM	Infratemporal fossa AN 33.1-5 DOAP		CNS AN 64.1 DOAP Examination of Abdomen PY 4.10 Estimation of Serum Bilirubin (Demonstration) BI 11.12. aundice Minor pathway of Carbohydrate (SGD)
	12-02-2020	Wednesday	Immunoglobulin structure, type, functions, disorders	Introduction to CNS PY 10.1	Infratemporal fossa AN 33.1-5 DOAP	Lunch	CNS AN 64.1 DOAP Examination of Abdomen PY 4.10

Week 22			(Lectures) BI 10.3					Estimation of Serum Bilirubin (Demonstration) BI 11.12. aundice Minor pathway of Carbohydrate (SGD)	
	13-02-2020	Thursday	Splanchnic &Cutaneous circulation PY 5.10 (Lectures)	Transcription (Lectures) BI 7.2	AETCOM MODULE 1.3			CNS AN 64.1 DOAP Examination of Abdomen PY 4.10 Estimation of Serum Bilirubin (Demonstration) BI 11.12. aundice Minor pathway of Carbohydrate (SGD)	
	14-02-2020	Friday	Tongue and Palate AN 39.1,2. 36.1 Lecture TJ	Nutritional Value of Lipids, Proteins (Lectures) BI 8.5	Tongue and Palate AN 39.1,2. 36.1 DOAP	Lunch		Histology Renal AN 52.2 Lecture KJ	Endocrine PY8.6 (Lectures)

	15-02-2020		Describe Antigen and concepts involved in vaccine development (Lectures) BI 10.5	Pharynx AN 36.3,4,5 Lecture AP	CNS-Synapse PY 10.2	Artificial respiration, oxygen therapy PY6.5		AETCOM MODULE 1.2	
	16-02-2020								
	17-02-2020	Monday	CNS-Synapse PY 10.2 (Lectures)	Post Transcriptional modification, Inhibitors of transcription (Lectures) BI 7.2	Histology Male reproductive AN 52.2 Lecture KJ	SDL		Renal system AN 52.2 DOAP Small Group Discussion Chromatography (Demonstration) BI 11.16. Transcription (SGD)	

Week 23	**18-02-2020**	Tuesday	Describe and discuss the pathophysiology of hypoxia dyspnoea, , asphyxia; drowning, periodic breathing PY6.6 (Lectures)	Formative Assessment	Genetics AN 75.1-5 Lecture TJ	Lunch	Renal system AN 52.2 DOAP Small Group Discussion Chromatography (Demonstration) BI 11.16. Transcription (SGD)
	19-02-2020	Wednesday	PEM, dietary advices for Diabetes mellitus & cardiovascular diseases (Lectures) BI 8.3	Capillary circulation PY 5.10 (Lectures)	SDL		Renal system AN 52.2 DOAP Small Group Discussion

									Chromatography (Demonstration) BI 11.16. Transcription (SGD)
	20-02-2020	Thursday	Describe respiratory and metabolic changes during PY11.4(Lectures)	Genetic code, Translation (Lectures) BI 7.2	AETCOM MODULE 1.3				Renal system AN 52.2 DOAP
									Small Group Discussion
									Chromatography (Demonstration) BI 11.16. Transcription (SGD)
	21-02-2020	Friday - Shivarathri							
	22-02-2020	Saturday	LFT (Lectures) BI 6.13, 6.14	Genetics AN 75.1-5 Lecture TJ	Endocrine PY8.2 (Lectures)	Exercise – Effects on CVS PY 11.4 (Lectures)	Lunch	Test on Minor pathways of Carbohydrates, Jaundice, LFT, TFT, Molecular biology, Nutrition, Vit E, Vit K, Immunology	
	23-02-2020	Sunday							
									Male reproductive AN 52.2 DOAP
	24-02-2020	Monday	Space Physiology	ELISA, RIA BI 10.5	Pharynx AN 36.3,4,5 DOAP				Ergography PY3.14

	24-02-2020	Monday	Physiology PY	BI 10.5 (Lectures)	Pharynx AN 36.3,4,5 DOAP		Estimation of AST (Demonstration) BI 11.13. Immunology, Nutrition, Genetic Code (SGD)
	25-02-2020	Tuesday	Endocrine PY8.6	Larynx AN 38.1-3 Lecture EM	Pharynx AN 36.3,4,5 DOAP		Male reproductive AN 52.2 DOAP Ergography PY3.14 Estimation of AST (Demonstration) BI 11.13. Immunology, Nutrition, Genetic Code (SGD)
Week 24	**26-02-2020**	Wednesday	Digestion & Absorption of Lipids (Lectures) BI 4.2	CNS- Sensory receptors PY 10.2	Larynx AN 38.1-3 DOAP	Lunch	Male reproductive AN 52.2 DOAP Ergography PY3.14 Estimation of AST (Demonstration) BI 11.13. Immunology, Nutrition, Genetic Code (SGD)
	27-02-2020	Thursday	Describe respiratory and metabolic changes	Obesity, Metabolic syndrome (Lectures) BI	AETCOM MODULE 1.4		Male reproductive AN 52.2 DOAP Ergography PY3.14

			during PY11.4	(Lectures) BI 8.4			Estimation of AST (Demonstration) BI 11.13. Immunology, Nutrition, Genetic Code (SGD)	
	28-02-2020	Friday	Embryo HNF AN43.4 Lecture AD	Translation (Lectures) BI 7.2	Larynx AN 38.1-3 DOAP	Lunch	Histology Female reproductive AN 52.2 Lecture KJ	Endocrine PY 8.4 (Lectures)
	29-02-2020	Saturday	Digestion & Absorption of Lipids (Lectures) BI 4.2	Middle ear AN 40.2,4,5 Lecture AP		Lunch	AETCOM	

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA				
DEPARTMENT OF ANATOMY				
FIRST YEAR MBBS BATCH 2019				
THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF FEBRUARY 2020				
Date	Time	Topic	SLOs	Faculty
01-02-2020	8-9am	Embryology Tongue Palate AN 43.4 Lecture	Describe the formation of pharyngeal arches, clefts, pouches and their derivatives List the derivatives of pharyngeal clefts, pouches Enumerate the components formed from each of these arches Explain the basis of the congenital anomalies	AD
02-12-2019	1-3pm	Thyroid gross and histology Lecture AN 35.2,8, 52.1, 43.2	Describe the location, presenting parts and coverings correctly Describe the surfaces, borders and relations of the thyroid gland correctly Describe the blood supply of thyroid gland and relation of the vessels with other structures correctly Identify the presenting parts, arteries supplying the thyroid gland, veins draining the gland and nerves in relation to the arteries accurately. . Identify, describe and draw the microanatomy of Thyroid	TJ
03-02-2020 -06-2-02-2020	10-12 AM	Eye AN 43.2,3 DOAP	Identify, describe and draw the microanatomy of cornea, retina and optic nerve	ALL
03-02-2020	1-4PM	Orbit AN 31.1-5 DOAP	Describe & identify extra ocular muscles of eyeball Describe & demonstrate nerves and vessels in the orbit Describe anatomical basis of Horner's syndrome Enumerate components of lacrimal apparatus Explain the anatomical basis of oculomotor, trochlear and abducent nerve palsies along with strabismus	ALL
04-02-2020 -05-02-2020	1-4PM	Parotid AN 28.9,10 DOAP	Describe the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance. Explain the anatomical basis of Frey's syndrome.	AP

05-02-2020	8-9AM	Parotid AN 28.9,10 Lecture AP	Describe the parts, borders, surfaces, contents, relations and nerve supply of parotid gland with course of its duct and surgical importance. Explain the anatomical basis of Frey's syndrome.	AD
07-02-2020	9-10am	Histology CNS AN 64.1 Lecture KJ	Describe the microscopic structure of Spinal cord, Cerebellum & Cerebrum	KJ
07-02-2020, 10-02-2020	2-4 am 10-1 PM	Submandibular region AN 34.1,2 DOAP	Describe & demonstrate the morphology, relations and nerve supply of submandibular salivary gland & submandibular ganglion Describe the basis of formation of submandibular stones	ALL
10-02-2020- 13-02-2020	2-4 pm	CNS AN 64.1 DOAP	Describe the microscopic structure and identify the microanatomical features of Spinal cord, Cerebellum & Cerebrum	All
11-02-2020	9-10am	Infra temporal fossa AN 33.1-5 Lecture EM	Describe the extent,boundaries and contents of temporal and infratemporal fossae accurately. Describe the origin,course,parts and branches of maxillary artery. Identify the boundaries of temporal and infratemporal fossae and parts and branches of maxillary artery correctly. Describe the origin,insertion,nerve supply and actions of muscles of mastication accurately. Describe the origin,course and branches of mandibular nerve. Describe the situation, connections, fibres and distribution of otic ganglion Describe the articulating surfaces,type,relations and movements and muscles producing the movements of temporomandibular joint accurately. Demonstrate the articulating surfaces and the movements of the temporomandibular joint. Describe the formation,communications and clinical correlations of pterygoid venous plexus. Describe the signs, symptoms and causes of dislocation of temporomandibular joint.	EM

11-02-2020-12-02-2020	10-1PM	Infratemporal fossa AN 33.1-5 DOAP	Describe the extent,boundaries and contents of temporal and infratemporal fossae accurately. Describe the origin,course,parts and branches of maxillary artery. Identify the boundaries of temporal and infratemporal fossae and parts and branches of maxillary artery correctly. Describe the origin,insertion,nerve supply and actions of muscles of mastication accurately. Describe the origin,course and branches of mandibular nerve. Describe the situation, connections, fibres and distribution of otic ganglion Describe the articulating surfaces,type,relations and movements and muscles producing the movements of temporomandibular joint accurately. Demonstrate the articulating surfaces and the movements of the temporomandibular joint. Describe the formation,communications and clinical correlations of pterygoid venous plexus. Describe the signs, symptoms and causes of dislocation of temporomandibular joint.	ALL
14-02-2020	8-9am	Tongue and Palate AN 39.1,2. 36.1 Lecture TJ	Describe the gross structure of the tongue including the parts, location, macroscopic features, blood supply, lymphatic drainage and clinical importance of lymphatic drainage Describe the origin & insertion of intrinsic & extrinsic muscles of tongue, actions of muscles, development & developmental anomalies, correlate sensory & motor nerve supply with development & explain the anatomical basis of hypoglossal nerve palsy Describe the 1) morphology, relations, blood supply and applied anatomy of palatine tonsil 2) composition of soft palateDescribe the components and functions of Waldeyer's lymphatic ring Describe the boundaries and clinical significance of pyriform fossa Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess Describe the clinical significance of Killian's dehiscence	TJ

14-02-2020	10-12PM	Tongue and Palate AN 39.1,2. 36.1 DOAP	Describe the extent,boundaries and contents of temporal and infratemporal fossae accurately. Describe the origin,course,parts and branches of maxillary artery. Identify the boundaries of temporal and infratemporal fossae and parts and branches of maxillary artery correctly. Describe the origin,insertion,nerve supply and actions of muscles of mastication accurately. Describe the origin,course and branches of mandibular nerve. Describe the situation, connections, fibres and distribution of otic ganglion Describe the articulating surfaces,type,relations and movements and muscles producing the movements of temporomandibular joint accurately. Demonstrate the articulating surfaces and the movements of the temporomandibular joint. Describe the formation,communications and clinical correlations of pterygoid venous plexus. Describe the signs, symptoms and causes of dislocation of temporomandibular joint.	KJ
15.2.2020	9-10 am	Pharynx AN 36.3,4,5 Lecture	Waldeyer's lymphatic ring - components and functions Pyriform fossa - boundaries and clinical significance* Anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess* Clinical significance of Killian's dehiscence	
17.2.2020	10-11am	Histology Male reproductive AN 52.2 lecture	Identify the microanatomical features of male reproductive system: Testis, Epididymis,Vas deferens, Prostate & penis Draw a neat labelled histological diagram of Testis, Epididymis,Vas deferens, Prostate & penis	
17.2.2020 - 20.2.2020	2-4pm	Renal system AN 52.2 DOAP	Identify the microanatomical features of Urinary system: Kidney, Ureter & Urinary bladder Draw a neat labelled histological diagram of Kidney, Ureter & Urinary bladder	

18.2.2020	11am-1pm	Genetics AN 75.1-5 Lecture	Describe the structural and numerical chromosomal aberrations Explain the terms mosaics and chimeras with example Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome Describe genetic basis of variation: polymorphism and mutation Describe the principles of genetic counselling	
22.2.2020	9-10am	Genetics AN 75.1-5 Lecture	Describe the structural and numerical chromosomal aberrations Explain the terms mosaics and chimeras with example Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome Describe genetic basis of variation: polymorphism and mutation Describe the principles of genetic counselling	
24.2.2020-25.2.2020	10am-1pm	Pharynx AN 36.3,4,5 DOAP	Waldeyer's lymphatic ring - components and functions Pyriform fossa - boundaries and clinical significance* Anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess* Clinical significance of Killian's dehiscence	
24.2.2020-27.2.2020	2-4pm	Male reproductive AN 52.2 DOAP	Identify the microanatomical features of male reproductive system: Testis, Epididymis,Vas deferens, Prostate & penis Draw a neat labelled histological diagram of Testis, Epididymis,Vas deferens, Prostate & penis	
25.2.2020	9-10am	Larynx AN 38.1-3 Lecture	Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx Describe the anatomical aspects of laryngitis Describe anatomical basis of recurrent laryngeal nerve injury	
26.2.2020-28.2.2020	10am-1pm	Larynx AN 38.1-3 DOAP	Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx Describe the anatomical aspects of laryngitis Describe anatomical basis of recurrent laryngeal nerve injury	

28.2.2020	8-9am	Embryo HNF AN43.4 Lecture	Describe the formation of pharyngeal arches, clefts, pouches and their derivatives List the derivatives of pharyngeal clefts, pouches Enumerate the components formed from each of these arches Explain the basis of the congenital anomalies Describe the formation of the facial process List the derivatives of facial processes Correlate the end derivatives and their nerve supply Describe the formation of the palate from these facial process Explain the basis of the congenital anomalies Describe the formation of structures from which the tongue is developed Correlate the end derivatives and their nerve supply Describe the formation of the thyroid gland Explain the basis of the congenital anomalies with special reference to the thyroglossal duct Describe the formation of the Pituitary gland Describe the formation of the Eye	
28.2.2020	2-3pm	Histology Female reproductive AN 52.2 Lecture	Identify the microanatomical features of Female reproductive system: Ovary, Uterus, Uterine tube, Cervix, Draw a neat labelled histological diagram of Ovary, Uterus, Uterine tube, Cervix,	
29.2.2020	9-10am	Middle ear AN 40.2,4,5 Lecture	Explain the walls, contents and clinical importance of Middle ear correctly. Explain the features, joints, muscles and clinical importance of Ear Ossicles correctly. Explain the external features, parts, differences in newborn and muscles of Auditory tube correctly. Explain the Intrapetrous course of Facial nerve correctly. Explain the structure, parts, quadrants, surfaces, blood supply, nerve supply, lymphatic drainage and clinical importance of Tympanic Membrane correctly.	

SreeNarayana Institute of Medical Sciences, Chalakka

Department of Physiology

2019 Reg. Batch

Theory & Practical Classes Schedule for the month of February-2020

WEEK 20				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
01/02/20 Saturday	9-10am	General Endocrinology **PY8.6**	1. Classify hormones on the basis of their mechanism of action 2. Define second messenger and explain with the help of egs	Dr Nithi Varghese

WEEK 21				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
03/02/2020 Monday	9-10am	Introduction - Thyroid hormones and biosynthesis **PY 8.2**	1. List the steps in synthesis and secretion of thyroid hormone 2. Name the transport proteins involved in transporting thyroid hormones in plasma	Dr Indira Kumari K R
	10-12Noon	ECG **PY5.13**	1. Record normal ECG and interpret it	Dr Arun K Prakash
04/02/2020 Tuesday	8-9M	Regulation and actions of thyroid	1. Explain the regulation of secretion of thyroid hormones 2. Enumerate the metabolic actions of thyroid hormones	Dr Reena Alexander

		hormones **PY8.2**		
	10-12Noon	ECG **PY5.13**	1. Record normal ECG and interpret it	Dr Arun K Prakash
05/02/2020 Wednesday	9-10am	Actions of thyroid hormones **PY8.2**	1. Explain actions of thyroid hormones on each system.	Dr Reena Alexander
	10-12Noon	Arterial Pulse **PY5.15**	1. Describe the pulse recording in normal and abnormal conditions.	Dr Arun K Prakash
06/02/2020 Thursday	8-9M	Disorders of thyroid hormones **PY 8.2**	1. List the causes for hyperthyroidism 2. Enumerate the clinical features of hyperthyroidism and their physiological basis 3. Differentiate between cretinism and myxedema	Dr Arun K Prakash
	10-12Noon	Arterial Pulse **PY5.15**	2. Describe the pulse recording in normal and abnormal conditions.	Dr Arun K Prakash
07/02/2020 Friday	10-11am	Describe and discuss the physiology of high altitude **PY6.4**	1. List the changes that occurs on exposure to high altitude 2. Describe the process of acclimatization to high altitude 3. Understand the basis of acute and chronic mountain sickness	Dr Reena Alexander
	11-12noon	Clinical aspects of thyroid disorders	1. Describe the clinical presentation of the various thyroid disorders. 2. Explain the physiological basis of treatment of thyroid abnormalities	General Medicine

WEEK 22				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
10/02/2020 Monday	8-9am	Cerebral circulation **PY 5.10**	1. Special features of cerebral and cutaneous circulation	Dr Arun K Prakash
	2-4pm	Examination of Abdomen **PY 4.10**	1. Demonstrate the examination of the abdomen and report	Dr Arun K Prakash
11/02/2020 Tuesday	8-9M	Coronary circulation **PY5.10**	2. Explain the special features of coronary circulation	Dr Nithi Varghese
	2-4pm	Examination of Abdomen **PY 4.10**	1. Demonstrate the examination of the abdomen and report	Dr Arun K Prakash
12/02/20 Wednesday	9-10am	Introduction to CNS PY **10.1**	1. Describe and discuss the organization of nervous system	Dr Indira Kumari K R
	2-4pm	Examination of Abdomen **PY 4.10**	1. Demonstrate the examination of the abdomen and report	Dr Rosmy David
13/02/2020 Thursday	8-9M	Splanchnic &Cutaneous circulation **PY 5.10**	1. List the special features of Splanchnic circulation 2. List the special features of cutaneous circulation 3. Describe Starling's forces	Dr Arun K Prakash
	2-4pm	Examination of Abdomen **PY 4.10**	1. Demonstrate the examination of the abdomen and report	Dr Rosmy David

14/02/2020 Friday	3-4pm	General Endocrinology PY8.6	1. Explain the control of secretion of hormones- positive and negative feedback mechanism	Dr Nithi Varghese
15/02/2020 Saturday	10-11am	CNS- Synapse **PY 10.2**	1. Define synapse 2. Describe the structure of a synapse 3. Describe the mechanism of synaptic transmission	Dr Indira Kumari K R
	11-12noon	Artificial respiration, oxygen therapy **PY6.5**	1. Enumerate the methods of artificial ventilation 2. List the indications for cardio pulmonary resuscitation(CPR) 3. Enumerate the methods of oxygen therapy 4. List the indications of oxygen therapy 5. Define hyperbaric oxygen therapy. Describe oxygen toxicity	Dr Reena Alexander
	1-4pm	ATECOM (Module 1.2)	1. Enumerate the professional qualities of a physician 2. Demonstrate empathy in patient encounters	Dr Reena Alexander/ Dr Ahana Salam/ Dr Rosme David

WEEK 23				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
17/02/2020 Monday	8-9am	CNS- Synapse **PY 10.2**	1. Properties of synapse	Dr Indira Kumari K R
	2-4pm	Structure of respiratory membrane **PY 6.1** Factors effecting diffusion of gas **PY 6.2** His Bundle Electrocardiogram **PY5.5** Reticuloendothelial system **PY2.10**	1. Describe the respiratory membrane with a diagram 2. Enumerate the factors effecting diffusion of gases 3. Describe the waves of HBE 4. Describe the reticulo endothelial system	Small Group Discussion
18/02/2020 Tuesday	8-9M	Describe and discuss the pathophysiology of hypoxia dyspnoea, , asphyxia; drowning, periodic breathing **PY6.6**	1. Define hypoxia 2. Classify hypoxia 3. Describe the clinical features, compensatory mechanisms in hypoxia. 4. Define cyanosis,list the major causes, sites . 5. Define asphyxia and list its stages 6. Describe the patterns of periodic breathing and list their causes 7. Describe the pathophysiology of drowning Define dyspnoea and list the causes	Dr Reena Alexander

	2-4pm	Structure of respiratory membrane **PY 6.1** Factors effecting diffusion of gas **PY 6.2** His Bundle Electrocardiogram **PY5.5** Reticuloendothelial system **PY2.10**	1. Describe the respiratory membrane with a diagram 2. Enumerate the factors effecting diffusion of gases 3. Describe the waves of HBE 4. Describe the reticulo endothelial system	Small Group Discussion
19/02/20 Wednesday	9-10am	Capillary circulation **PY 5.10**	1. List the salient features of microcirculation 2. List the special characters of capillary circulation.	Dr Arun K Prakash
	2-4pm	Reticuloendothelial system **PY2.10**	1. List the functions of the reticulo endothelial system	Small Group Discussion
20/02/2020 Thursday	8-9M	Describe respiratory and metabolic changes during **PY11.4.**	1. Enumerate respiratory changes during exercise. 2. Describe is Oxygen debt and VO2 max	Dr Reena Alexander
	2-4pm	Reticuloendothelial system **PY2.10**	2. List the functions of the reticulo endothelial system	Small Group Discussion
22/02/2020 Saturday	10-11am	Endocrinology (HPA) **PY8.2**	3. Name the releasing and inhibiting hormones of hypothalamus 4. Describe the action of these hormone 5. Explain the hypothalamo-pituitary tract & portal system	Dr Nithi Varghese

	11-12noon	Exercise – Effects on CVS **PY 11.4**	1. Describe the effects of exercise on the cardiovascular system	Dr Arun K Prakash
WEEK 24				
Date	**Time**	**Topic**	**SLO (The student should be able to)**	**Faculty**
24/02/2020 Monday	8-9am	High Altitude Physiology **PY6.4**	1. Describe the effects of gravitational forces on cardiovascular system 2. List physiological changes taking place in the human body under the influence of zero gravity	Dr Arun K Prakash
	2-4pm	Ergography **PY3.14**	1. Define ergography 2. Perform Mosso's ergography 3. Calculate work done by the muscle 4. List factors that effect fatigue and work done	Dr Arun K Prakash
25/02/2020 Tuesday	8-9M	Endocrine (Pituitary) **PY8.6**	1. List the hormones of anterior & posterior pituitary 2. Describe the mechanism of action of growth hormone 3. Explain the regulation of growth hormone	Dr Nithi Varghese
	2-4pm	Ergography **PY3.14**	1. Define ergography 2. Perform Mosso's ergography 3. Calculate work done by the muscle 4. List factors that effect fatigue and work done	Dr Arun K Prakash

26/02/20 Wednesday	9-10am	CNS- Sensory receptors **PY 10.2**	1. Describe the functions & properties of receptors	Dr Indira Kumari K R
	2-4pm	Ergography **PY3.14**	1. Define ergography 2. Perform Mosso's ergography 3. Calculate work done by the muscle 4. List factors that effect fatigue and work done	Dr Ahana Salam
27/02/2020 Thursday	8-9M	. Describe respiratory and metabolic changes during exercise **PY11.4**	1. Enumerate respiratory changes during exercise. 2. Describe is Oxygen debt and VO2 max	Dr Reena Alexander
	2-4pm	Ergography **PY3.14**	1. Define ergography 2. Perform Mosso's ergography 3. Calculate work done by the muscle 4. List factors that effect fatigue and work done	Dr Ahana Salam
28/02/2020 Friday	3-4pm	Endocrine (Adrenal Medulla) **PY 8.4**	1. List the type of cells in the adrenal medulla 2. List the hormones produced by the adrenal medulla 3. Describe the synthesis of catecholamines	Dr Arun K Prakash
29/02/2020 Saturday	10-12noon	SHORT TEST IV- CVS & Respiratory Physiology		

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

DEPARTMENT OF BIOCHEMISTRY

Ist YEAR MBBS BATCH 2019

THEORY TEACHING SCHEDULE FOR FEBRUARY 2020

DATE	TIME	TOPIC		SLO	FACULTY
03.02.2020	8.00-9.00 am	Discuss the metabolic processes that take place in specific organs in the body in the fed and fasting states.BI 6.1	1	Define the well fed state and fasting state	Dr.Anju
			2	Describe the metabolic changes in fasting state	
			3	Describe the fate of dietary fuel in the well fed state	
			4	Describe the regulation of enzymes involved in fasting and well fed state.	

04.02.2020	9.00-10.00 am	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. BI 7.2	1	DNA repair mechanism	Dr.Asha
		Describe the structure and functions of DNA and RNA and outline the cell cycle. BI 7.1	2	Nucleotide excision repair and direct repair	
			3	Structure of RNA - tRNA,mRNA, rRNA, snRNA	
		Discuss the importance of various dietary components and explain importance of dietary fibre BI 8.1	1	Define BMR, factors affecting BMR	

06.02.2020	9.00-10.00 am	Summarize the nutritional importance of commonly used items of food including fruits and vegetables (macromolecules and its importance) BI 8.5	2	Define SDA, SDA for Carbohydrate & Protein , Lipids	Dr.Desigamani
		Describe the functions of kidney, liver, thyroid and adrenal glands BI 6.13	1	Discuss the functions of thyroid	

07.02.2020	8.00-9.00 am	Describe the tests that are commonly done in clinical practice to assess the functions of kidney, liver, thyroid and adrenal glands BI 6.14	2	Describe the thyroid function tests	Dr.Sneha
10.02.2020	9.00-10.00 am	Summarize the nutritional importance of commonly used items of food including fruits and vegetables (macromolecules and its importance) BI 8.5	1	Nutritional imporatnce of Carbohydrates	Dr.Desigamani
			2	Diating fibre and their clinical imporatnce	
		Describe the	1	Describe the structure of Immunoglobulin	

12.02.2020	8.00-9.00 am	Describe the cellular components of immune system and describe the types and structure of antibodies BI 10.3	2	Expalin the characteristics of IgG, IgM, IgA, IgD, IgE	Dr.Anju
			3	List the immune deficiency states	
13.02.2020	9.00-10.00 am	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. BI 7.2	1	Transcription - Definition, Requirement, intiation, elongation and termination of transcription. Inhibitors of transcription	Dr.Asha
		Summarize the nutritional importance of commonly used	1	Nutritional value of lipids	
			2	Essential fatty acids and sources for different polyunsaturated fatty acids	

14.02.2020	9.00-10.00 am	commonly used items of food including fruits and vegetables (macromolecules and its importance) BI 8.5	3	Nutritional value of Protein	Dr.Desigamani
			4	Biological value of Protein (BU)	
			5	Net Protein Utilisation	
			6	Chemical source of Protein	
15.02.2020	8.00-9.00 am	Describe antigens and concepts involved in vaccine development BI 10.5	1	Describe Antigen	Dr.Anju
			2	Describe the concepts involved in vaccine development	

17.02.2020	9.00-10.00 am	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. BI 7.2	1	Post transcriptional modifications of tRNA & rRNA & mRNA - 5' capping , 3' tailing and splicing, Alternative splicing and mRNA editing	Dr.Asha
19.02.2020	8.00-9.00 am	Provide dietary advice for optimal health in childhood and adult, in disease conditions like diabetes mellitus, coronary artery diseae and pregnancy BI	1	Define PEM (Protein Energy malnutrition)	Dr.Desigamani
			2	Kwashiorkar, Marasmus - Definition, Causes, clinical features , treatment	

		8.3	3	Balanced Diet and Dietary plan for Diabetes and Coronary Heart disease	
20.02.2020	9.00-10.00 am	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. BI 7.2	1	Genetic code definition, sailent features	Dr.Asha
21.02.2020	9.00-10.00 am	Holiday - Sivarathri			
		Describe the functions of kidney, liver, thyroid and adrenal glands BI 6.13	1	Enumerate and describe the functions of liver	

22.02.2020	8.00-9.00 am	Describe the tests that are commonly done in clinical practice to assess the functions of kidney, liver, thyroid and adrenal glands BI 6.14	2	Describe LFTs	Dr.Sneha
	10.00-1.00 pm	**Test on Minor pathways of Carbohydrates, Jaundice, LFT, TFT, Molecular biology, Nutrition, Vit E, Vit K, Immunology**			
24.02.2020	9.00-10.00 am	Describe antigens and concepts involved in vaccine development BI 10.5	1	Outline the principles and uses of immunoassays - RIA & ELISA	Dr Anju
26.02.2020	8.00-9.00 am	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their	1	Enumerate and discuss the different Lipases involved in fat digestion	Dr.Sneha

		features of their metabolism BI 4.2	2	Discuss the role of bile salts in absorption of lipids	
27.02.2020	9.00-10.00 am	Describe the cause (including dieatry Habits), effects and health risks associated with being overweight/obesity BI 8.4	1	Obesity - different indices of obesity and their associated complications	Dr.Desigamani
			2	Metabolic syndrome	
28.02.2020	9.00-10.00 am	Describe the processes involved in replication & repair of DNA and the transcription & translation mechanisms. BI 7.2	1	Translation - Definition, Requirements, Activation of amino acids and initiation.	Dr.Asha

29.02.2020	8.00-9.00 am	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism BI 4.2	1	Describe the homonal regulation of lipid digestion	Dr.Sneha
	1.00-4.00 pm		1	AETCOM- Role of Doctor (Lectures) Module 1.1	Dr.Sneha
		AETCOM- Role of doctors	2	AETCOM- Role of Doctor (Lectures) Module 1.1	Dr.Anju
			3	AETCOM- Role of Doctor (SDL) Module 1.1	Dr.Anju

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 FEBRUARY 2020
(2019 MBBS Batch)

Date	Time	Competency	SLO	Faculty
06-02-2020	1-1:30pm	Describe manmade disasters in the world and in India (CM 13.3)	Enlist and discuss the man-made disasters in the world and in India (Conclusion)-Self directed learning	**AJ**

	1:30-3:30pm	End-Semester Summative Assessment and Feedback (1:30-2:30-Feedback, 2:30-3:30-Assessment)		**ATS**
	10-11pm		Discuss the fundamentals of the doctor-patient relationship (Large group session)	**KN**

13-02-2020	11-1pm	Demonstrate the important aspects of the doctor patient relationship in a simulated environment (CM1.10)-AETCOM	Elicit doctor-patient relationship that includes learning from resources, lay press, media and movies (Self directed learning)	**AR,VC**

	10-12pm		Discuss with illustrative cases/examples, the fundamentals of the doctor-patient relationship (Interactive discussion)	**JD,BS**
20-02-2020		Demonstrate the important aspects of the doctor patient relationship in a simulated environment (CM1.10) -AETCOM		

	12-1pm		Demonstrate empathy in patient encounters (Discussion and closure session)	**KK**
	10-12pm		Demonstrate the principles of communication (Large group discussion)	**AM,KN**

27-02-2020	12-1pm	Demonstrate the role of effective Communication skills in health in a simulated environment(CM1.9)-AETCOM	Demonstrate the importance and techniques of effective communication (Self directed learning)	**AJ**
			Prof. Dr. Alexander John	
			HOD, Dept of Community Medicine	