SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

1st MBBS 2019 Batch

CONTENTS

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

- **Month of March -2020**

Dr. Aditya Krishna Das

Curriculum co-ordinator

02.03.2020

Phase 1 Monthly Time Table - March 2020									
Week	**Day**	**Date**	8-9am	9-10am	10-11am	12-1pm	1-2pm	2-3pm	3-4pm
	3/1/2020	**Sunday**							
Week 25	**3/2/2020**	Monday	Physiology of bone and calcium metabolismPY8.1 (Lectures)	Hemoglobin - Structure, functions (SDL) BI 6.12	Larynx AN 38.1-3 DOAP	LUNCH	Female reproductive system 1 AN 52.2 DOAP	Cranial Nerves 1-6 PY10.11 (Practical)	Estimation of ALT (Demonstration) BI 11.13. Digestion, Absorption of lipids, Translation (SGD) BI 4.2, 7.2
	3/3/2020	Tuesday	Cardiovascular & Respiratory adjustment in Exercise PY11.4,11.8 (Lectures)	Middle ear Lecture AN 40.2,4,5 AP	Larynx AN 38.1-3 DOAP		Female reproductive system 1 AN 52.2 DOAP	Cranial Nerves 1-6 PY10.11 (Practical)	Estimation of ALT (Demonstration) BI 11.13. Digestion, Absorption of lipids, Translation (SGD) BI 4.2, 7.2
	3/4/2020	Wednesday	Metabolism in well fed and fasting state	Synapse PY 10.2 (Lectures)	Ear 40.1-5 DOAP		Female reproductive system 1 AN 52.2 DOAP	Cranial Nerves 1-6 PY10.11 (Revision) (Practical)l)	

			state (Lectures) BI 6.1					Estimation of ALT (Demonstration) BI 11.13. Digestion, Absorption of lipids, Translation (SGD) BI 4.2, 7.2	
	3/5/2020	Thursday	Posterior pituitary Hormones (PY8.2) (Lectures)	β - Oxidation (Lectures) BI 4.2	AETCOM (Module 1.4)			Female reproductive system 1 AN 52.2 DOAP Cranial Nerves 1-6 PY10.11 (Revision) (Practical) Estimation of ALT (Demonstration) BI 11.13. Digestion, Absorption of lipids, Translation (SGD) BI 4.2, 7.2	
	3/6/2020	Friday	Pterygopalatine fossa and ganglion Lecture TJ	Translation (Lectures) BI 7.2	Ear 40.1-5 DOAP	LUNCH		SDL	Adrenal Cortex (PY 8.2) (Practical)
	3/7/2020	Saturday	Normal and Abnormal Hemoglobin (Lectures) BI 6.12	Female reproductive system 2 lecture AN 52.2 KJ	Receptors PY 10.2 (Lectures)	LUNCH	Adrenal Medulla PY8.2 (Lectures)	Adrenal Cortex (PY 8.2) (Lectures)	Local Hormone (PY 9.5) (Lectures)
	3/8/2020	Sunday							
	3/9/2020	Monday	Receptors PY 10.2 (Lectures)	Regulation of Gene Expression (Lectures)	Part completion test HNF			Female reproductive system 2 AN 52.2 DOAP Cranial Nerves7-12 PY10.11 (Practical)	

				(Lectures) BI 7.3				Estimation of ALP (Demonstration) BI 11.14 . β Oxidation - Seminar BI 4.2
	3/10/2020	Tuesday	Adrenal Medulla PY8.2,8.4 (Lectures)	Introduction to CNS Lecture AN 56.1,2 AP	Introduction to CNS AN 56.1.2 DOAP			Female reproductive system 2 AN 52.2 DOAP Cranial Nerves7-12 PY10.11 (Practical) Estimation of ALP (Demonstration) BI 11.14 . β Oxidation - Seminar BI 4.2
	3/11/2020	Wednesday	β - Oxidation, ω and α Oxidation (Lectures) BI 4.2	Receptors PY 10.2 (Lectures)	Spinal cord 1 lecture AN 57.1-3 AD	Spinal cord AN 5	LUNCH	Female reproductive system 2 AN 52.2 DOAP Cranial Nerves7-12PY10.11 (Revision)(Practical) Estimation of ALP (Demonstration) BI 11.14 . β Oxidation - Seminar BI 4.2
Week 26	**3/12/2020**	Thursday	Somatic sensations & sensory tracts PY 10.3 (Lectures)	Regulation of blood glucose (Lectures) BI 3.9	Spinal cord 2 lecture AN 57.4,5 AD	Spinal cord AN 57.1-5		Female reproductive system 2 AN 52.2 DOAP Cranial Nerves7-12PY10.11 (Revision)(Practical) Estimation of ALP (Demonstration) BI 11.14 . β Oxidation - Seminar BI 4.2
	3/13/2020	Friday	Brainstem external features Lecture AN 58.1,59.1, 61.1 TJ	Abnormal Hemoglobin (Lectures) BI 6.12	Brainstem external features AN 58.1,59.1 ,61.1 DOAP	LUNCH		AETCOM (Module 1.4)

	3/14/2020	Saturday	Fatty acid synthesis (Lectures) BI 4.2	Brainstem internal features Lecture AN 58.2-4,59.2-3,61.2-3 EA	Regulation of blood glucose (Lectures) BI 3.9	Test on ELISA, RI	LUNCH	Mechanism of action of insulin PY 8.2 (Lectures)	Temperature o regulation PY 11.3 (Lectures)
	3/15/2020	Sunday							
Week 27	**3/16/2020**	Monday	Describe the synthesis, secretion, transport, physiological actions, regulation, pancreas PY8.2 (Lectures)	Regulation of Gene Expression (Lectures) BI 7.3	Brainstem internal features Lecture AN 58.2-4,59.2-3,61.2-3 EA	Brainstem internal features AN 5	LUNCH	SDL	
								Motor system examinationPY10.11 (Practical)	
								Abnormal Urine Analysis (DOAP) BI 11.4. Hemoglobin (SGD) BI 6.12	
	3/17/2020	Tuesday	Pancreas PY8.2 (Lectures)	Cerebellum Lecture AN 60.1-3 TJ	Cerebellum AN 60.1-3 DOAP			SDL	
								Motor system examinationPY10.11 (Practical)	
								Abnormal Urine Analysis (DOAP) BI 11.4. Hemoglobin (SGD) BI 6.12	
	3/18/2020	Wednesday	Diabetes Mellitus (Lectures) BI 3.9, 3.10	Sensory tracts PY 10.3 (Lectures)	4th Ventricle Lecture AN 63.1,2	Ventricles of		SDL	
								Motor system examination PY10.11 (Revision) (Practical)	

			[illegible]		AP	brain A		Abnormal Urine Analysis (DOAP) BI 11.4. Hemoglobin (SGD) BI 6.12	
	3/19/2020	Thursday	PancreasPY8.2	RFT (Lectures) BI 6.14	Dienceph alon Lecture AN 62.5 AD	Dienceph alon AN		SDL Motor system examination PY10.11 (Revision) (Practical) Abnormal Urine Analysis (DOAP) BI 11.4. Hemoglobin (SGD) BI 6.12	
	3/20/2020	Friday	Cerebrum 1 Lecture AN 62.2-6 AP	Recombinant DNA technology (Lectures) BI 7.4	Cerebrum AN 62.2-6 DOAP	LUNCH		Formative assessment	Adrenal Cortex
	3/21/2020	Saturday	Diabetes Mellitus (Lectures) BI 3.9, 3.10	Cerebrum 2 Lecture AN 62.2-6 AP	Monthly Assessment Exam	LUNCH	AETCOM		
	3/22/2020	Sunday							
	3/23/2020	Monday	Reflexes PY10.2 (Lecture)	Ketone bodies (Lectures) BI 4.2	Cerebrum AN 62.2-6 DOAP			SDL Reflexes PY10.11 Abnormal Urine Analysis (DOAP) BI 11.4. Diabetes Mellitus (SGD) BI 3.9, 3.10	
	3/24/2020	Tuesday	Functions of cerebellum system and their abnormalities	Basal ganglia Lecture AN 62.4 FA	Basal ganglia AN 62.4 DOAP			SDL Reflexes PY10.11	

			ics PY10.7(Lecture)	LA			Abnormal Urine Analysis (DOAP) BI 11.4. Diabetes Mellitus (SGD) BI 3.9, 3.10	
Week 28	**3/25/2020**	Wednesday	RFT (Lectures) BI 6.14	Sensory tracts (pain pathway) PY 10.3(Lecture)	3rd & Lateral Ventricles Lecture AN 63.1,2 AD	Ventricles of brain AN	SDL Reflexes PY10.11 Abnormal Urine Analysis (DOAP) BI 11.4. Diabetes Mellitus (SGD) BI 3.9, 3.10	
	3/26/2020	Thursday	Adrenal Cortex (PY 8.2) (Lecture)	Recombinant DNA technology (Lectures) BI 7.4	White Matter Lecture AN 62.3 TJ	White Matter AN 6	SDL Reflexes PY10.11 Abnormal Urine Analysis (DOAP) BI 11.4. Diabetes Mellitus (SGD) BI 3.9, 3.10	
	3/27/2020	Friday	Blood supply of CNS Lecture AN 62.6 AP	Ketone bodies, Triglycerides (Lectures) BI 4.2	Blood supply of CNS AN 62.6 DOAP	LUNCH	Formative Assessment	Reflexes PY10.2(Lecture)
	3/28/2020	Saturday	Isoenzymes (Lectures) BI 2.1, 2.6	Visual Pathway Lecture AN62.1 AP	Early Clinical Exposure Diabetes (SGD)	LUNCH	Other sensory pathways PY 10.3 (Lecture)	Cerebellar lesions . Tests PY10.7 (Lecture)
	3/29/2020	Sunday						
	3/30/2020	Monday	Spinal cord (PY10.6) (Lecture)	Detoxification (Lectures) BI 7.5	Revision		SDL Clinical examination & human experiments (Revision)	

			(Lecture)	BI 7.5			ISE, pH meter (Demonstration) BI 11.16
Week 29	**3/31/2020**	Tuesday	Question paper discussion	Embryology HNF Lecture AN 64.2,3	Revison	LUNCH	SDL
							Clinical examination & human experiments (Revision)
							ISE, pH meter (Demonstration) BI 11.16

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA				
DEPARTMENT OF ANATOMY				
FIRST YEAR MBBS BATCH 2019				
THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF MARCH 2020				
Date	Time	Topic	SLOs	Faculty
2.3.2020-3.3.2020	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	
2.3.2020 - 5.3.2020	2-4pm	Histology Female reproductive system 1 AN 52.2 DOAP	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,	
3.3.2020	9-10am	Middle ear Lecture AN 40.2,4,5	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. Explain anatomical basis of otitis externa and otitis media	

4.3.2020, 6.32020	11am-1pm	Ear 40.1-5 DOAP	Identify the Pharyngeal opening of auditory tube in Sagittal section of Head and neck accurately Identify the different parts of pinna in a human cadaver correctly Identify the Sulcus tubae in Norma Basalis correctly Identify the petrous part of temporal bone in Normal basalis correctly. Identify the internal acoustic meatus in Norma Basalis correctly	
7.3..2020	9-10am	Female reproductive system 2 lecture AN 52.2	Decribe the microanatomical features of Female reproductive system: placenta, umbilical cord, mammary gland	
9.3.2020-12.3.2020	2-4pm	Female reproductive system 2 AN 52.2 DOAP	Identify the microanatomical features of Female reproductive system: placenta, umbilical cord, mammary gland Draw a neat labelled histological diagram of placenta, umbilical cord, mammary gland	
10.3.2020	9-10am	Introduction to CNS Lecture AN 56.1,2	Describe various layers of meninges with its extent & modifications Describe the parts of nervous system	
10.3.2020	10am-1pm	Introduction to CNS AN 56.1.2 DOAP	identify various layers of meninges with its extent & modifications identify the parts of nervous system	
11.3.2020	10-11am	Spinal cord 1 lecture AN 57.1-3	Describe external features of spinal cord Describe extent of spinal cord in child & adult with its clinical implication Draw & label transverse section of spinal cord at mid-cervical & midthoracic level	

11.3.2020-12.3.2020	11am-1pm	Spinal cord AN 57.1-5 DOAP	identify external features of spinal cord Draw & label transverse section of spinal cord at mid-cervical & midthoracic level Enumerate ascending & descending tracts at mid thoracic level of spinal cord Describe anatomical basis of syringomyelia	
12.3.2020	10-11am	Spinal cord 2 lecture AN 57.4,5	Draw & label transverse section of spinal cord at mid-cervical & midthoracic level Enumerate ascending & descending tracts at mid thoracic level of spinal cord Describe anatomical basis of syringomyelia	
13.3.2020	8-9am	Brainstem external features Lecture AN 58.1,59.1,61.1	Describe external features of medulla oblongata Describe external features of pons Desribe external features of midbrain	
13.3.2020	10am-1pm	Brainstem external features AN 58.1,59.1,61.1 DOAP	identify external features of medulla oblongata identify external features of pons identify external features of midbrain	

14.3.2020,16.3.2020	9-10am,10-11am	Brainstem internal features Lecture AN 58.2-4,59.2-3,61.2-3	Describe transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION Enumerate cranial nerve nuclei in medulla oblongata with their functional group Describe anatomical basis & effects of medial & lateral medullary syndrome Draw & label transverse section of pons at the upper and lower level Enumerate cranial nerve nuclei in pons with their functional group Describe internal features of midbrain at the level of superior & inferior colliculus Describe anatomical basis & effects of Benedikt's and Weber's syndrome	
16.3.2020	11am-1pm	Brainstem internal featuresAN 58.2-4,59.2-3,61.2-3 DOAP	identify transverse section of medulla oblongata at the level of 1) pyramidal decussation, 2) sensory decussation 3) ION Enumerate cranial nerve nuclei in medulla oblongata with their functional group Describe anatomical basis & effects of medial & lateral medullary syndrome identify transverse section of pons at the upper and lower level Enumerate cranial nerve nuclei in pons with their functional group identify internal features of midbrain at the level of superior & inferior colliculus Describe anatomical basis & effects of Benedikt's and Weber's syndrome	
17-03-2020	10-11 am	Cerebellum Lecture AN 60.1-3 TJ	Describe external & internal features of cerebellum Describe connections of cerebellar cortex and intracerebellar nuclei Describe anatomical basis of cerebellar dysfunction	TJ
17-03-2020	11-1pm	Cerebellum AN 60.1-3 DOAP	Describe and demonstrate external & internal features of cerebellum Describe connections of cerebellar cortex and intracerebellar nuclei Describe anatomical basis of cerebellar dysfunction	ALL

18-03-2020	10-11am	4th Ventricle Lecture AN 63.1,2 AP	Describe the boundaries and features of floor of fourth ventricle correctly Describe the anatomical basis of congenital hydrocephalus	AP
19-03-2020	10-11 am	Diencephalon Lecture AN 62.5 AD	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	AD
19-03-2020	11-1pm	Diencephalon AN 62.5 DOAP	Describe boundaries, parts, gross relations, major nuclei and connections of dorsal thalamus, hypothalamus, epithalamus, metathalamus and subthalamus	ALL
20-03-2020	8-9am	Cerebrum 1 Lecture AN 62.2-6 AP	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere Describe & identify formation, branches & major areas of distribution of circle of Willis	AP
20-03-2020	10-1pm	Cerebrum AN 62.2-6 DOAP	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere Describe & identify formation, branches & major areas of distribution of circle of Willis	ALL
21-03-2020	9-10am	Cerebrum 2 Lecture AN 62.2-6 AP	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere Describe & identify formation, branches & major areas of distribution of circle of Willis Describe the white matter of cerebrum	AP
23-03-2020	10-1pm	Cerebrum AN 62.2-6 DOAP	Describe & demonstrate surfaces, sulci, gyri, poles, & functional areas of cerebral hemisphere Describe & identify formation, branches & major areas of distribution of circle of Willis Describe the white matter of cerebrum	ALL

24-03-2020	9-10am	Basal ganglia Lecture AN 62.4 EA	Enumerate parts & major connections of basal ganglia & limbic lobe	EA
24-03-2020	10-1pm	Basal ganglia AN 62.4 DOAP	Enumerate parts & major connections of basal ganglia & limbic lobe	ALL
25-03-2020	10-11am	3rd & Lateral Ventricles Lecture AN 63.1,2 AD	Describe the parts, boundaries and features of lateral ventricle correctly. Describe boundaries and features of third ventricle accurately. Describe the boundaries and features of floor of fourth ventricle correctly Demonstrate the parts, boundaries and features of lateral, third ventricle accurately.	AD
25-03-2020	11-1pm	Ventricles of brain AN 63.1,2 DOAP	Describe the parts, boundaries and features of lateral ventricle correctly. Describe boundaries and features of third ventricle accurately. Describe the boundaries and features of floor of fourth ventricle correctly Demonstrate the parts, boundaries and features of lateral, third ventricle accurately.	ALL
26-03-2020	10-11am	White Matter Lecture AN 62.3 TJ	Describe the white matter of cerebrum	TJ
26-03-2020	11-1pm	White Matter AN 62.3 DOAP	Describe the white matter of cerebrum	TJ
27-03-2020	8-9am	Blood supply of CNS Lecture AN 62.6 AP	Describe formation, branches & major areas of distribution of circle of Willis	AP

27-03-2020	10-12am	Blood supply of CNS AN 62.6 DOAP	Describe and demonstrate formation, branches & major areas of distribution of circle of Willis	ALL
28-03-2020	9-10am	Visual Pathway Lecture AN62.1 AP	Enumerate cranial nerve nuclei with its functional component	AP
31-03-2020	9-10am	Embryology HNF Lecture AN 64.2,3	Describe the development of neural tube, spinal cord, medulla oblongata, pons, midbrain, cerebral hemisphere & cerebellum Describe various types of open neural tube defects with its embryological basis	AD

SreeNarayana Institute of Medical Sciences, Chalakka

Department of Physiology

2019 Reg. Batch

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

WEEK 25				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
02/03/2020 Monday	8-9am	Physiology of bone and calcium metabolism**PY8.1**	1. Importance of calcium and phosphate metabolism 2. Functions of calcium and phosphate 3. Distribution of calcium and phosphate	DrReena Alexander
	2-4pm	Cranial Nerves 1-6 PY10.11	1.Examine the cranial nerves 1-6 and report	Dr Rosme David
03/03/20200 Tuesday	8-9M	Cardiovascular & Respiratory adjustment in Exercise PY11.4,11.8	1. Describe VO_2 max and it's significance. 2. Distinguish different types of exercise and their effects on the cardio respiratory systems 3. Describe the recovery muscle metabolism. 4. Describe the cardiorespiratory adjustments in exercise.	DrArun K Prakash
	2-4pm	Cranial Nerves 1-6 PY10.11	1. Examine the cranial nerves 1-6 and report	Dr Rosme David
04/03/2020 Wednesday	9-10am	Synapse **PY 10.2**	1. Properties of synapse	Dr Indira Kumari K R

	2-4pm	Cranial Nerves 1-6 PY10.11 (Revision)	1. Examine the cranial nerves 1-6 and report	Dr Rosme David
05/03/2020 Thursday	8-9M	Posterior pituitary Hormones (PY8.2)	1. Enumerate posterior pituitary hormones 2. Describe the mechanism of action and actions of posterior hormones 3. Describe the neuroendocrine reflex	DrNithi Varghese
	2-4pm	Cranial Nerves 1-6 PY10.11 (Revision)	1. Examine the cranial nerves 1-6 and report	Dr Rosme David
06/03/2020 Friday	3-4pm	Adrenal Cortex (PY 8.2)	1. Enumerate adrenal cortical hormone 2. Describe the synthesis and secretion, of mineralocorticoids	DrNithi Varghese
07/03/2020 Saturday	10-11am	Receptors **PY 10.2**	1. Classification of sensations and receptors 2. Concept of sensory receptor and sensory organ	Dr Indira Kumari K R
	11-12noon	Physiology of bone and calcium metabolism **PY8.1**	1.Regulation of Ca and phosphate homeostasis 2. Bone physiology- composition, structure, cell types in bone,, mechanism of bone formation, bone resorption, Applied aspects- Osteoporosis, Osteopetrosis	DrReena Alexander
	1-2pm	Adrenal Medulla PY8.2	1. Name the hormones secreted from Adrenal medulla 2. Describe the Synthesis, Secretion, and Metabolism of Catecholamines 3. Describe the mechanism of	DrArun K Prakash

			action of Catecholamines	
	2-3pm	Adrenal Cortex (PY 8.2)	1. Describe the mechanism of action, actions & regulation of mineralocorticoids	DrNithi Varghese
	3-4pm	Local Hormone (PY 9.5)	1. Describe the various local hormones and their effects.	DrAhana Salam

WEEK 26				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
09/03/2020 Monday	8-9am	Receptors **PY 10.2**	3. Name receptors for standard sensations 4. Signal transduction in receptors and studies in Pacinian corpuscle	Dr Indira Kumari K R
	2-4pm	Cranial Nerves7-12 PY10.11	1. Examine the cranial nerves 7-12 and report	Dr Ahana Salam
10/03/2020	8-9M	Adrenal Medulla PY8.2,8.4	1. Enumerate the actions of Catecholamines in human body 2. Enumerate the applied aspects of the adrenal medulla.	Dr Arun K Prakash
	2-4pm	Cranial Nerves7-12 PY10.11	1. Examine the cranial nerves 7-12 and report	Dr Ahana Salam
11/03/2020 Wednesday	9-10am	Receptors PY 10.2	5. Generator potential/Receptor potential and difference from Action potential Properties of receptors	Dr Indira Kumari K R
	2-4pm	Cranial Nerves7-12PY10.11 (Revision)	1. Examine the cranial nerves 7-12 and report	Dr Ahana Salam
12/03/2020 Thursday	8-9M	Somatic sensations & sensory tracts PY 10.3	1. Explain with diagram Dorsal column pathway, and sensations carried by the pathway and effect of lesion	Dr Indira Kumari K R
	2-4pm	Cranial Nerves7-12PY10.11 (Revision)	1. Examine the cranial nerves 7-12 and report	Dr Ahana Salam

14/03/2020 Saturday	2-3pm	Mechanism of action of insulin PY8.2	1. Describe the mechanism of action of insulin.	Dr Nithi Varghese
	3-4pm	Temperature regulation PY 11.3	1. Explain the mechanisms involved in the maintenance and regulation of body temperature	Dr Rosme David

WEEK 27				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
16/03/2020 Monday	8-9am	Describe the synthesis, secretion, transport, physiological actions, regulation , pancreas **PY8.2**	1. Name the hormones secreted fromEndocrine pancreas 2. List the factors that stimulate and inhibit insulin secretion 3. Enlist the steps of secretion of insulin from Beta cells in response to an increase blood glucose level	Dr Reena Alexander
	2-4pm	Motor system examinationPY10.11	1. Examine the motor system and report	Dr Ahana Salam
17/03/2020 Tuesday	8-9M	Pancreas **PY8.2**	4. Describe the mechanism of action of insulin 5. Enumerate the actions of insulin in human body 6. List the clinical features of Diabetes mellitus and give their physiological basis	Dr Reena Alexander
	2-4pm	Motor system examinationPY10.11	1. Examine the motor system and report	Dr Ahana Salam
18/03/2020 Wednesday	9-10am	Sensory tracts PY 10.3	2. Explain with diagram Anterior spinothalamic & Lateral spinothalamic tract, and sensations carried by the pathway and effect of lesion	Dr Indira Kumari K R
	2-4pm	Motor system examination PY10.11 (Revision)	1. Examine the motor system and report	Dr Ahana Salam
19/03/2020	8-9M	PancreasPY8.2	7. List the complications of Diabetes Mellitus and their physiological basis	Dr Reena Alexander

Thursday			8. Enlist the management of Diabetes mellitus. 9. List the clinical features of hypoglycemia 10. Name the actions of glucagon	
	2-4pm	Motor system examination PY10.11 (Revision)	1. Examine the motor system and report	Dr Ahana Salam
20/03/2020 Friday	3-4pm	Adrenal Cortex (PY 8.2)	1.Describe actions & regulation of glucocorticoid	Dr Nithi Varghese
21/03/2020 Saturday	10-12noon	Monthly Assessment Exam		
	1-4pm	AETCOM Module1.2		Dr Arun K Prakash

WEEK 28				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
23/03/2020 Monday	8-9am	Reflexes PY10.2	1. Define reflex action 2. Draw diagram and explain components of reflex arc 3. Classification of reflexes with typical examples 4. Properties of reflex action	Dr Arun K Prakash
	2-4pm	Reflexes PY10.11	1. Examine the deep and superficial reflexes on the subject and report	Dr Rosme David
24/03/2020 Tuesday	8-9M	Functions of cerebellum system and their abnormalities **PY10.7**	1. Divisions of cerebellum 2. Connections of cerebellum. 3. Neuronal circuit	Dr Reena Alexander
	2-4pm	Reflexes PY10.11	1. Examine the deep and superficial reflexes on the subject and report	Dr Rosme David
25/03/2020 Wednesday	9-10am	Sensory tracts (pain pathway) PY 10.3	1. Physiology of pain - Nociception, dual pathway ,special features of pain, reaction to pain. 2. Physiology of pain - referred pain, visceral pain, intrinsic control of gating of pain, stress analgesia,abnormalities	Dr Indira Kumari K R
	2-4pm	Reflexes PY10.11 (Revision)	1. Examine the deep and superficial reflexes on the subject and report	Dr Rosme David
26/03/2020 Thursday	8-9M	Adrenal Cortex (PY 8.2)	1. Describe the synthesis, secretion, mechanism of action of glucocorticoids, 2. Discuss the applied aspect of adrenal cortex	Dr Nithi Varghese
	2-4pm	Reflexes PY10.11 (Revision)	1. Examine the deep and superficial reflexes on the subject and report	Dr Rosme David

27/03/2020 Friday	3-4pm	Reflexes PY10.2	5. Diagram of stretch reflex,Inverse stretch reflex and reciprocal innervations.name each component of reflex arc in each of these brief outline of crossed extensor reflex and its clinical application 6. Physiological importance of reflexes and mention alteration in disease states	Dr Arun K Prakash
28/03/2020 Saturday	10-11am	Other sensory pathways PY 10.3	3. Describe the non senory pathways	Dr Indira Kumari K R
	11-12noon	Cerebellar lesions . Tests PY10.7	7. Describe abnormalities in Cerebellar leisions	Dr Reena Alexander

WEEK 29				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
30/03/2020 Monday	8-9am	Spinal cord (PY10.6)	1. Discuss the the anatomy of spinal cord Enlist and explain the functions of spinal cord	Dr Nithi Varghese
	2-4pm	Revision	Clinical examination & human experiments	Dr Rosme David
31/03/2020 Tuesday	8-9M	Question Paper Discussion		Dr Arun K Prakash
	2-4pm	Revision	Clinical examination & human experiments	Dr Ahana Salam

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

DEPARTMENT OF BIOCHEMISTRY

Ist YEAR MBBS BATCH 2019

THEORY TEACHING SCHEDULE FOR MARCH 2020

DATE	TIME	TOPIC		SLO	FACULTY
02.03.2020	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	1	Describe the types of normal human hemoglobin with their functions.	Dr.Desigamani
			1	Define the well fed state and fasting state	
			2	Describe the metabolic changes in fasting state	
		Discuss the metabolic			

04.03.2020	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	3	Describe the fate of dietary fuel in the well fed state	Dr.Anju
			4	Describe the regulation of enzymes involved in fasting and well fed state.	
05.03.2020	9.00-10.00 am	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism BI 4.2	1	Enumerate the steps of β oxidation .	Dr.Sneha
06.03.20	9.00-	Describe the processes involved in replication & repair of DNA and the	1	Describe elongation and termination of translation.	Dr.Asha

20	10.00 am	repair of DNA and the transcription & translation mechanisms. BI 7.2	2	Inhibition of translation and post translational modification.	Dr.Asha
07.03.2020	8.00-9.00 am	Describe the different types of haemoglobin and its derivatives found in the body and their physiological/ pathological relevance BI 6.12	1	Describe the types of normal and abnormal derivatives of hemoglobin	Dr.Desigamani
			2	List the various hemoglobin pathies.	
09.03.2020	9.00-10.00 am	Describe gene mutations and basic mechanism of regulation of gene expression. BI 7.3	1	Describe types of gene regulation, Regulation of gene expression in prokaryotes, Lac operon.	Dr.Asha

11.03.2020	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	Explain the energetics of β oxidation.	Dr.Sneha
			2	Describe briefly other types of oxidation.	
12.03.2020	9.00-10.00 am	Discuss the mechanism and significance of blood glucose regulation in health and disease. BI 3.9	1	List the factors mainting blood glucose	Dr.Anju
			2	Explain the regulation of normal plasma glucose level and effects of hormones on maintenance of glucose homeostasis.	

13.03.2020	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	1	Describe and discuss various hemoglobinopathies	Dr.Desigamani
			2	Explain Sickle cell anaemia, Thalassemia and methemoglobinemia	
	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 De novo synthesis of fatty acids	Dr.Sneha

14.03.2020	10.00-11.00 am	Discuss the mechanism and significance of blood glucose regulation in health and disease. BI 3.9	1	Describe insulin synthesis and secretion receptors and signal transduction.	Dr.Anju
			2	Outline the steps of OGTT and interpret the results	
	11.00-1.00 pm	Test on ELISA, RIA, Regulation of gene expression, Lipid Metabolism, Genetic Code, Translation, Hemoglobin, Electrophoresis, Multiple Myeloma, Monoclonal Antibodies, Obesity, Metabolic Syndrome			
16.03.2020	9.00-10.00 am	Describe gene mutations and basic mechanism of regulation of gene expression. BI 7.3	1	Regulation of gene expression in Eukaryotes	Dr.Asha

18.03.2020	8.00-9.00 am	Discuss the mechanism and significance of blood glucose regulation in health and disease. BI 3.9	1	State the disgnostic criteria for diabetes mellitus	Dr.Anju
		Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism BI 3.10	2	Classify diabetes mellitus	
			3	Describe the metabolic derangements in diabetes mellitus correlate with clinical manifestations	

19.03.2020	9.00-10.00 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	1	Describe the various functions of the kidney	Dr.Desigamani
20.03.2020	9.00-10.00 am	Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. BI 7.4	1	Definition and Steps of Recombinant DNA technology	Dr.Asha

21.03.2020	8.00-9.00 am	Discuss the mechanism and significance of blood glucose regulation in health and disease. BI 3.9	1	Mention the acute and chronic complications of diabetes mellitus	Dr.Anju
		Interpret the results of blood glucose levels and other laboratory investigations related to disorders of carbohydrate metabolism BI 3.10	2	List and interpret the lab investigations in diabetes mellitus	

23.03.2020	9.00-10.00 am	Describe the processes involved in digestion and absorption of dietary lipids and also the key features of their metabolism BI 4.2	1	Enumerate the ketone bodies.	Dr.Sneha
			2	Decsribe ketogenesis and ketolysis	
25.03.2020	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	1	Describe the laboratory investigations to assess the functions of kidney	Dr.Desigamani
			2	Describe the various disorders of kidneys	

26.03.2020	9.00-10.00 am	Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis. BI 7.4	1	DNA library and applications	Dr.Asha
27.03.2020	9.00-10.00 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 regulation of Ketogenesis	Dr.Sneha
			2	Enumerate the abnormalities and consequences of ketosis	
			3	Explain the synthesis of Triglycerides	

28.03.2020	8.00-9.00 am	Explain fundamental Concepts of enzyme, Isoenzyme, alloenzyme, coenzyme & cofactor. Enumerate the main classes of IUBMB nomenclature BI 2.1	1	Describe isoenzymes their properties and clinical usefulness	Dr.Anju
		Discuss use of enzyme in laboratory investigation (enzyme based assays) BI 2.6	2		
	10.00-1.00 pm	Early Clinical Exposure (ECE) Diabetes (SGD)			Dr.Asha, Dr.Desigamani, Dr.Sneha, Dr.Anju

30.03.2020	9.00-10.00 am	Describe the role of xenobiotics in disease BI 7.5	1	Explain what is meant by detoxification and biotransformation	Dr.Desigamani
			2	Describe various mechanisms of biotransformation of xenobiotics	
			3	Describe the role of xenobiotics in various diseases	

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 MARCH 2020
(2019 MBBS Batch)

Date	Time	Competency	SLO	Faculty
05-03-2020	10:00-1pm	Demonstrate the role of effective Communication skills in health in a simulated environment(CM1.9)-AETCOM	1. Demonstrate effective communication in a stimulated environment 2. Demonstrate under supervision the principles/factors influencing communication (Small group discussion)+Role plays for groups-1-7	**JD,BS,VC,AR**

13-03-2020	2:00-3:00pm	Demonstrate the role of effective Communication skills in health in a simulated environment(CM1.9)-AETCOM	Demonstrate under supervision the principles of communication+ Role plays for groups 8&9	**KK,JA**
	3:00-4:00pm		Assessment and feedback session	**ATS**
			Prof. Dr. Alexander John	
			HOD, Dept of Community Medicine	