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

1st MBBS 2019 Batch

CONTENTS

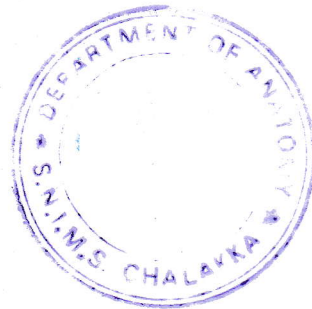
- ❖ **PHASE 1 TEACHING SCHEDULE
AND SLOs
(THEORY & PRACTICAL)**

- ❖ **Month of SEPTEMBER -2019**

Dr. Aditya Krishna Das

Curriculum co-ordinator

*Dr. Aditya
Asst Professor
Dept of Anatomy*



SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA
TIME TABLE FOR 2018-2019 BATCH
SEMESTER 1- Till February 15

	8-9 am	9-10 am	10-12 pm	12- 1 pm	1-4 pm
Monday	Biochemistry	Physiology	Lab	Lunch	Dissection
Tuesday	Physiology	Biochemistry	Lab	Lunch	Dissection
Wednesday	Anatomy	Physiology	Lab	Lunch	Dissection
Thursday	Physiology	Biochemistry	Lab	Lunch	Medicine
Friday	Biochemistry	Anatomy	Physiology	12-2pm Lunch	Dissection
Saturday	Anatomy	Physiology	Seminar	Lunch	Dissection

Seminar	Subject
1st Saturday	Anatomy
3rd Saturday	Physiology
4th Saturday	Biochemistry
5th Saturday	Anatomy

Batches
A Batch- 1-25
B- Batch-26-50
C-Batch- 51-75
D-Batch-76-100

Practical schedule

DAYS	HISTOLOGY	PHYSIOLOGY	BIOCHEMISTRY
Monday	A	C&D	B
Tuesday	D	A&B	C
Wednesday	B	C&D	A
Thursday	C	A&B	D

1st MBBS 2019 BATCH
TEACHING SCHEDULE SEPTEMBER 2019

Week	Date	Day	8-9 am	9-10 am	10-11am	11-12 pm	12- 1 pm	1-2 pm	2-3 pm	3-4 pm
Week 1	16-Sep	Mon	Enzymes BI 2.1	Introduction to Blood PY 2.1	Microscope PY 2.11 epithelium AN65.1,2 DOAP Introduction to Biochemistry		LUNCH BREAK	Epithelium 1 KJ AN65.1,2 lecture	Anatomical terminology SGD AN 1.1	introduction to osteology SGD AN1.2
	17-Sep	Tue	Body fluid compartments PY 1.6	Vitamin A BI 6.5	Microscope PY 2.11 Introduction to Biochemistry epithelium AN65.1,2 DOAP			epithelium 2 KJ AN65.1,2 lecture	general anatomy - bones SV AN2.1,2,3,4 lecture	general anatomy - joints TJ AN 2.5,6 lecture
	18-Sep	Wed	introduction to embryology TJ AN 76.1,2 lecture	Blood components PY 2.1	Microscopic examination of Introduction to Biochemistry epithelium AN65.1,2 DOAP			general anatomy - muscle AP AN 3.1,2,3 lecture	general anatomy - connective tissue, skin, fascia SV 4.1,2,3,4,5 lecture	general anatomy cardiovascular sytem TJ AN5.1,2,3,4,5, 6,7,8, AN6.1,2,3 lecture
	19-Sep	Thu	Transport across cell membrane PY 1.5	Vitamin D BI 6.5	Microscopic examination of Introduction to Biochemistry epithelium AN65.1,2 DOAP			Concept of Health, holistic health, spiritual health and determinants of health (CM1.2) AJ	Agent, host and environmental factors in health and disease, multifactorial eitiology of disease	Natural history of disease (CM1.4) AK
	20-Sep	Fri	Carbohydrates BI 3.1	connective tissue KJ AN66.1,2 lecture	Apoptosis PY 1.4	Cell membrane PY 1.1			General anatomy nervous sytem TJ AN 7.1-8 lecture	

	21-Sep	Sat										
	22-Sep	Sun										
Week 2	23-Sep	Mon	Enzymes BI 2.1	Intercellular communication PY 1.3	Counting chamber PY 2.11	LUNCH BREAK	Introduction to upper limb AP AN9.1 lecture	AETCOM 1.5 Cadaver as the first teacher SGD				
	24-Sep	Tue	Transport across cell membrane PY 1.5	Carbohydrates BI 3.1	Buffers and pH BI 11.2		Mammary gland AP AN9.2-3 lecture	Pectoral region AN 9.1,2 DOAP				
					Connective tissue AN66.1,2 DOAP							
	25-Sep	Wed	Spermatogenesis AP 77.3 lecture	Resting membrane potential PY 1.8	RBC Count PY 2.11		clavicle AN8.1-4 SGD	Pectoral region AN 9.1,3 DOAP				
					Buffers and pH BI 11.2							
	26-Sep	Thu	Nerve Physiology PY3.1	Vitamin A BI 6.5	Connective tissue AN66.1,2 DOAP		Levels of prevention (CM1.5) AMT	Modes of intervention (CM1.5) BK	Concept of Public Health (CM1.1) VC			
					RBC Count PY 2.11							
	27-Sep	Fri	Vitamin D BI 6.5	Muscle KJ AN67.1-3 lecture	Transport across cell membrane PY 1.5		Plasma protein PY 2.2	Mammary gland, start axilla AN 9.2,10.1-5 DOAP				
Buffers and pH BI 11.2												
28-Sep	Sat	Axilla AP AN10.1-7 lecture	Nerve Physiology	SDL - Anatomy		Axilla AN 10.1-7 DOAP						
29-Sep	Sun											
Week 3	30-Sep	Mon	Cell Biology BI 1.1	Platelet PY 2.7	RBC Count PY 2.11	Brachial Plexus TJ AN10.3,5,6 lecture	Axilla AN 10.1-7 DOAP					
					Normal Urine- Inorganic BI 11.3							
					Muscle AN67.1-3 DOAP							

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

DEPARTMENT OF ANATOMY

FIRST YEAR MBBS BATCH 2019

THEORY & PRACTICAL TEACHING SCHEDULE FOR THE MONTH OF SEPTEMBER 2019

16-09-2019	01-02pm	Epithelium 1 AN65.1,2 lecture	Describe the structure of simple and stratified epithelium Enumerate the classification of Epithelium with examples Describe the structure of different types of simple epithelium	KJ
16-09-2019	2-3 pm	Anatomical terminology SGD AN 1.1	Describe the normal anatomical position Describe various anatomical planes Describe the relationship between body parts and/or structures relative to each other Differentiate the movements in different parts of each extremity List the various anatomical changes in body in relation to laterality Demonstrate the various movements of the body in relation to various axes and planes	All
16-09-2019	3-4 pm	introduction to osteology SGD AN1.2	1.2 (1) Describe the Structure and different components of bone 1.2(2) Classify and describe various type of bones according to shape, structure and development 1.2(3) Describe the structure, composition and different types of bone marrow	All
17-09-2019	01-02pm	epithelium 2 KJ AN65.1,2 lecture	Describe the structure of different types of stratified epithelium Describe the ultrastructure of epithelium	KJ
			AN 2.1(a) Classify the bones according to their shape, structure and position correctly. AN 2.1(b) Enumerate the parts of a long bone correctly. AN2.1(c) Enumerate the types of epiphysis correctly. AN 2.1(d) Describe the blood supply of a long bone correctly.	

17-09-2019	02-3pm	general anatomy - bones SV AN2.1,2,3,4 lecture	<p>AN 2.1(e) Describe the growth of a long bone and its relation to the direction of nutrient artery correctly</p> <p>AN 2.2(a) Enumerate laws of ossification correctly.</p> <p>AN 2.2(b) Classify bones according to the type of ossification and give examples for it correctly.</p> <p>AN 2.3(a) Enumerate the special features of a sesamoid bone correctly.</p> <p>AN 2.4(a) Describe the types of cartilage with its distribution correctly.</p> <p>AN 2.4(b) List the three basic components of cartilage correctly.</p> <p>AN 2.4(c) Enlist the differences in structure of the three types of cartilage correctly.</p>	SV
17-09-2019	03-04pm	general anatomy - joints TJAN 2.5,6 lecture	<p>AN 2.5(a) Classify joints based upon their structure and function correctly.</p> <p>AN 2.5(b) Describe the characteristic features of a synovial joint correctly.</p> <p>AN 2.5(c) Describe the subtypes of synovial joints according to their shape of articular surfaces and axis of movements correctly.</p> <p>AN 2.5(d) Discuss the blood supply and nerve supply of synovial joints correctly.</p> <p>AN 2.5(e) List the factors maintaining stability of synovial joints correctly.</p>	TJ

			AN 2.5(f) Describe closed pack and loose pack position of synovial joints correctly.	
			AN 2.6(e) Enumerate Hilton's law with its clinical significance correctly.	
18-09-2019	08-09pm	introduction to embryology TJAN 76.1,2 lecture	Describe the stages of human life Introduction to history and recent development in embryology Explain the terms- phylogeny, ontogeny, trimester, viability brief introduction to male and female reproductive systems	TJ
18-09-2019	01-02pm	general anatomy - muscle AP AN 3.1,2,3 lecture	Enumerate the basic properties of muscle And explain how it is different from other tissue Classify the muscle based on morphology Classify the skeletal muscles based on their functions on joints Define the terms proximal and distal attachments / origin and insertion List out the functions of muscles and list out places where smooth and cardiac muscles could be found out Brief the nerve supply of voluntary muscle	AP
18-09-2019	01-02pm	general anatomy - muscle APAN 3.1,2,3 lecture	Enumerate the basic properties of muscle And explain how it is different from other tissue Classify the muscle based on morphology Classify the skeletal muscles based on their functions on joints Define the terms proximal and distal attachments / origin and insertion List out the functions of muscles and list out places where smooth and cardiac muscles could be found out Brief the nerve supply of voluntary muscle	AP
			List the components of skin. Describe types of skin with examples. Explain Surface area of skin and its clinical significance in burns	

18-09-2019	02-03pm	<p>general anatomy - connective tissue, skin, fascia SV 4.1,2,3,4,5 lecture</p>	<p>Define dermatome, Applied anatomy of various dermatomes in body</p> <p>Enumerate the layers of skin</p> <p>Describe the cells in epidermis of thick & thin skin.</p> <p>Sensory receptors of skin with its functions</p> <p>Enumerate the functions of skin</p> <p>Enumerate the appendages of skin.</p> <p>Draw a neat labelled diagram & Describe the structure of sweat gland, sebaceous gland, hair & nail in detail.</p> <p>Correlate structures with applied anatomy</p>	All
18-09-2019	03-04pm	<p>general anatomy cardiovascular sytem TJAN5.1,2,3,4, 5,6,7,8, AN6.1,2,3 lecture</p>	<p>Identify the components of systemic circulation</p> <p>Identify the components of pulmonary circulation</p> <p>List general difference between arteries and veins</p> <p>Identify and describe the great arteries arising from heart</p> <p>Identify and describe the branches of great arteries of heart</p> <p>Describe the branching and distribution pattern of arterial system</p> <p>Describe the veins draining into the heart</p> <p>Describe the tributary pattern of veins</p> <p>Explain the functional difference between elastic, muscular arteries and arterioles</p> <p>Describe the components and peculiarity of elastic arteries</p> <p>Describe the components and peculiarity of muscular arteries</p> <p>Describe the components and peculiarity of arterioles</p> <p>Describe portal system giving examples</p> <p>Describe the components and peculiarity of portal system</p> <p>Describe in brief the areas of porto-systemic anastomosis</p> <p>Describe the concept of anastomoses and collateral circulation with significance of end-arteries</p> <p>Describe the anatomical basis of anastomoses</p> <p>Describe the anatomical basis and importance of collateral circulation</p> <p>Describe the importance and significance of end arteries</p> <p>Explain function of meta-arterioles, precapillary sphincters, arterio-venous anastomoses</p> <p>Describe meta-arterioles</p>	TJ

			Describe precapillary sphincters	
			Describe the importance and significance of arterio- venous anastomoses	
			Describe thrombosis, infarction and aneurysm	
20-09-2019	9-10 am	connective tissue KJAN66.1,2 lecture	Define connective tissue correctly Describe the cells and extra cellular matrix in connective tissue Describe different types of connective tissue with examples Describe the ultrastructure of the cells of connective tissue Describe the ultrastructure of the fibres in the connective tissue	KJ
20-09-2019	02-04pm	General anatomy nervous sytem TJ AN 7.1-8 lecture	Describe the components of nervous system Describe components and functions of central nervous system Briefly describe the components of peripheral nervous system Describe briefly on autonomic nervous system and add note on enteric nervous system Briefly describe the components of nervous tissue Mention components of grey matter and white matter with functions Describe parts of neuron and mention function of each part. Classify neurons according to the number and arrangement of their processes Describe with help of diagram the structure of typical spinal nerve Describe the principles of sensory and motor innervations of muscle What are receptors. Classify receptors Describe the findings of loss of innervations of muscle Briefly describe on nerve regeneration and types of degeneration. Briefly describe myelination and demyelination Define synapse and mention classification of synapses Mention briefly on neurotransmitters Describe the differences between sympathetic and spinal ganglia	TJ

23/09/19- 26/09/19	10-12am	Connective tissue AN66.1,2 DOAP	Draw a neat labelled histological pictures of various conective tissueDescribe different types of connective tissue with examples Correctly identify and show the type and different components of connective tissuelIdentify the ultrastructural differences between the cells and fibres	All
23-09-2019	1-2pm	Introduction to upper limb AP AN9.1 lecture	List the muscles in the pectoral region correctly. Describe the attachments, nerve supply & actions of Pectoralis major muscle accurately. Describe the attachments ,nerve supply, actions and relations of Pectoralis Minor muscle Define the clavipectoral fascia.Mention its location,extent and characteristic features List the structures piercing the clavipectoral fascia	AP
23-09-2019	2-4pm	AETCOM 1.5 Cadaver as the first teacher SGD	Demonstrate respect and follow the correct procedure when handling cadavers & Biological tissues	All

Department of Physiology
Theory & Practical Classes Schedule for the month of September-2019

Date	Time	Topic	SLO (The student should be able to)	Faculty
16/09/19 Monday	9-10AM	Introduction to Blood PY 2.1	1.Enumerate the components of blood 2.Describe the composition of blood 3.List the functions of blood components.	Dr.Nithi Varghese
	10-12Noon	Microscope PY 2.11	1.Identify the parts of microscope 2.Demonstrate working of microscope under low power, high power and oil immersion objectives.	Dr.Ahana Salam
17/09/19 Tuesday	8-9AM	Body fluid compartments PY1.6	1.Enumerate composition of body fluid compartments (BFC) 2.Describe different BFC& their volumes 3.Describe the principle of measurement of BFC 4.Describe method of measurement of BFC 5.Discuss the effect of dehydration on ECF &ICF and its significance in children & elderly 6.Describe the variations in ECF & ICF volume in different condition	Dr Arun K Prakash
	10-12Noon	Microscope PY 2.11	1.Identify the parts of microscope 2.Demonstrate working of microscope under low power, high power and oil immersion objectives.	Dr.Ahana Salam
18/09/2019 Wednesday	9-10AM	Blood components PY 2.1	1.Describe the components of blood 2.Enumerate the functions of each component	Dr.Nithi Varghese
	10-12Noon	Microscopic examination of blood PY 2.11	1.Identify the morphology of RBC in frank blood, isotonic saline, hypotonic saline & hypertonic saline.	Dr Jincy Joseph
19/09/2019 Thursday	8-9M	Transport across cell membrane PY 1.5	1.Enumerate the transport mechanisms across the cell membrane – passive, active and vesicular	Dr.Nithi Varghese
	10-12Noon	Microscopic examination of blood PY 2.11	1.Identify the morphology of RBC in frank blood, isotonic saline, hypotonic saline & hypertonic saline.	Dr Jincy Joseph
20/09/2019 Friday	10-11AM	Cell membrane PY 1.1	1.Describe the structure , composition and functions of a cell membrane- fluid mosaic model 2.Describe the functions of the components of cell membrane	Dr.Ahana Salam
	11-12Noon	Apoptosis PY 1.4	1.Describe apoptosis, definition and its significance	Dr Arun K Prakash

23/09/19 Monday	9-10AM	Intercellular communication PY 1.3	1.Describe intercellular communications and its significance	Dr.Ahana Salam
	10-12Noon	Neubauer's Counting chamber PY 2.11	1.Focus & identify the areas of the counting chamber	Dr.Nithi Varghese
24/09/19 Tuesday	8-9AM	Transport across cell membrane PY 1.5	1.Describe the types of passive transport across cell membrane with examples 2.Describe simple diffusion – Direct diffusion, open and gated channels 3.Describe facilitated diffusion and osmosis	Dr.Nithi Varghese
	10-12Noon	Neubauer's Counting chamber PY 2.11	1.Focus & identify the regions of the counting chamber	Dr.Nithi Varghese
25/09/2019 Wednesday	9-10AM	Resting membrane potential PY 1.8	1.Define resting membrane potential(RMP) 2.Describe ionic basis of RMP 3.Define excitable tissues and types of stimuli *Action potential to be discussed along with nerve muscle physiology	Dr Arun K Prakash
	10-12Noon	RBC count PY 2.11	1.Focus & identify the area for counting RBCs 2.Dilute blood with Hayem's fluid using RBC pipette 3.Charge the counting chamber & count the RBCs	Dr.Nithi Varghese
26/09/2019 Thursday	8-9M	Nerve Physiology PY 3.1	1.Draw and label the parts of a neuron 2.List the functions of different parts of a neuron 3.List different types of neuroglial cells and explain their functions 4.Explain about different types of growth factors	Dr Arun K Prakash
	10-12Noon	RBC count PY 2.11	1.Focus & identify the area for counting RBCs 2.Dilute blood with Hayem's fluid using RBC pipette 3.Charge the counting chamber & count the RBCs	Dr.Nithi Varghese
27/09/2019 Friday	10-11AM	Transport across cell membrane PY 1.5	4.Describe the types of active transport across cell membrane with example 5.Describe structure and function of sodium – potassium pump 6.Describe mechanism of action of sodium-potassium pump and its clinical applications 7.Describe secondary active transport and its significance	Dr.Nithi Varghese
	11-12Noon	Plasma protein PY 2.2	1.Enumerate plasma proteins 2.List the normal values & variations 3.Describe the functions of plasma proteins	Dr.Nithi Varghese

28/09/2019 Saturday	9-10AM	Nerve Physiology PY 3.1	<ol style="list-style-type: none"> 1. List the different types of neurons on the basis of their structure and function 2. Explain the process of myelination in a central and peripheral nerve fiber 3. Enumerate the electrical properties of nerve fibres 	Dr Arun K Prakash
30/09/ 19 Monday	9-10AM	Platelet PY 2.7	<ol style="list-style-type: none"> 1. Structure and formation of platelet 2. Properties of platelet 3. Variations in PLT count 4. Functions of PL 	Dr.Nithi Varghese
	10-12Noon	RBC count PY 2.11	<ol style="list-style-type: none"> 1. Focus & identify the area for counting RBCs 2. Dilute blood with hayem's fluid using RBC pipette 3. Charge the counting chamber & count the RBCs 	Dr.Nithi Varghese

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA
DEPARTMENT OF BIOCHEMISTRY
IstYEAR MBBS BATCH 2019
THEORY TEACHING SCHEDULE FOR THE MONTH OF SEPTEMBER 2019

DATE	TIME	TOPIC		SLO	FACULTY
16.09.2019	8.00-9.00 am	Explain fundamental Concepts of enzyme, Isoenzyme, alloenzyme, coenzyme &	1	Define an enzyme	Dr.Sneha
			2	Discuss the chemical nature of	
			3	Describe the enzyme classification	
17.09.2019	9.00-10.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their	1	Enumerate the RDA of vitamin-A	Dr.Anju
			2	Enumerate the Sources of vitamin-	
			3	Describe the Biochemical Role of	
19.09.2019	9.00-10.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their	1	Enumerate the RDA of vitamin-D	Dr.Sneha
			2	Enumerate the Sources of vitamin-	
			3	Describe the Biochemical Role of	
20.09.2019	8.00-9.00 am	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving	1	Classify carbohydrates	Dr.Anju
			2	Describe the biomedical	
			3	Enumerate the isomers of	
23.09.2019	8.00-9.00 am	Explain fundamental Concepts of enzyme, Isoenzyme, alloenzyme, coenzyme &	1	Discuss the properties of enzyme	Dr.Sneha
			2	Define Cofactor	
			3	Define Coenzyme	
24.09.2019	9.00-10.00 am	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving	1	Describe the structure of	Dr.Anju
			2	Discuss the reactions of	
			3	Describe the derivatives of	

26.09.2019	9.00-10.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency (Vit A). BI 6.5	1	Discuss the deficiency manifestations of vitamin-A	Dr.Anju
27.09.2019	8.00-9.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency (Vit D).BI 6.5	1	Discuss the deficiency manifestations of vitamin-D	Dr.Sneha
28.09.2019	10.00-12.00 am	Test on Enzymes, Carbohydrates, Vitamin A , D			
		Describe the molecular and functional organisation of a cell and its. BI 1.1	1	Define Cell	
			2	Enumerate the different types of cell	

			3	Describe the structural and functional organisation of a eukaryotic cell
			4	Enumerate the different types of subcellular organelles
			5	Describe the structure of Nucleus
			6	Describe the functions of Nucleus
			7	Describe the structure of Endoplasmic Reticulum
			8	Describe the different types of Endoplasmic Reticulum
			9	Describe the functions of Endoplasmic Reticulum

30.09.2019	8.00-9.00 am		10	Describe the structure of Mitochondria	Dr.Asha
			11	Describe the functions of Mitochondria	
			12	Describe the structure of Golgi Complex	
			13	Describe the functions of Golgi Complex	
			14	Describe the structure of Lysosomes	
			15	Describe the functions of Lysosomes	
			16	Describe the structure of Peroxisomes	
			17	Describe the functions of Peroxisomes	

Dr.Asha Augusthy
Professor & HOD
Department of Biochemistry

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27/9/19

**Sree Narayana Institute of Medical Sciences, Chalakka
Department of Community Medicine**

2019 Reg. Batch Thursday-1-4pm classes

Theory Classes Schedule for the month of September-2019

Date	Time	Topic	SLO	Faculty
19/09/19 Thursday	1-2pm	Concept of Health, holistic health, spiritual health and determinants of health CM1.2	<ol style="list-style-type: none">1. Define health according to WHO2. Explain the concept of holistic health - dimensions of health, its relativeness3. Enumerate and discuss the determinants of health	AJ
	2-3pm	Agent, host and environmental factors in health and disease, multifactorial etiology of disease CM1.3	<ol style="list-style-type: none">1. Describe the characteristics of agent, host & environment in health & disease2. Discuss the multifactorial etiology of disease	KK
	3-4pm	Natural history of disease CM1.4	Describe and discuss the natural history of disease	AK
26/09/19 Thursday	1-2pm	Levels of prevention CM1.5	Enumerate and discuss the various levels of prevention	AMT
	2-3pm	Modes of Intervention CM1.5	List and Describe the various modes of intervention with different egs:	BK
	3-4pm	Concept of Public Health CM1.1	<ol style="list-style-type: none">1. Define Public Health2. Discuss the rise of Public Health3. Explain the changing concepts of Public health	VC