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 3	01-Oct	Tue	Nerve Physiology PY 3.1 (Lecture)	Cell Biology (SDL) BI 1.1	CARTILAGE(AN 71.2) DOAP RBC Count PY 2.11 Normal Urine- Organic (DOAP) BI 11.3 Vitamin A, Vitamin D (SGD) BI 6.5		LUNCH BREAK	Axilla AN 10.1-7 DOAP		
	02-Oct	Wed	Gandhi Jayanthi					Gandhi Jayanthi		
	03-Oct	Thu	Nerve Physiology PY 3.1 (Lecture)	Enzymes (Lectures) BI 2.4	CARTILAGE(AN 71.2) DOAP RBC Count PY 2.11 Normal Urine- Organic (DOAP) BI 11.3 Vitamin A, Vitamin D (SGD) BI 6.5			Describe social psycology, community behaviour and community relationship and their impact on health and disease (CM 2.4)		
	04-Oct	Fri	Water Soluble Vitamins (Lectures) BI 6.5	OOGENESIS, OVARIAN CYCLE 77.1-77.3 LECTURE EA	WBC PY 2.6 (Lecture)	WBC PY 2.6 (Lecture)			SCAPULA(AN8. 1,8.4) SGD	DISSECTION OF BACK(AN10. 8,10.9) DOAP
	05-Oct	Sat	Scapular region AN 10.9,10,13 LECTURE AP	Immunity PY 2.10 (Lecture)				BONE(AN 71.1) LECTURE KJ	DISSECTION OF BACK(AN10. 8,10.9),START SCAPULAR REGION DOAP	
	06-Oct									
Week 4	07-Oct	Mon	Maha Navami				LUNCH BREAK	Maha Navami		
	08-Oct	Tue	Vijayadashami					Vijayadashami		
	09-Oct	Wed	SHOULDER JOINT 10.12 AD	RBC PY 2.4 (Lecture)	BONE(AN 71.1) ESR PY 2.12 Normal Urine- Organic (DOAP) BI 11.3 Vitamin A, Vitamin D (SGD) BI 6.5			HISTOLOGY MUSCLE (AN67. 1-67..3)	SCAPULA REGION 10.10,10.11,10.13	
	10-Oct	Thu	Homeostasis PY 1.2 (Lecture)	Carbohydrates (Lectures) BI 3.1	BONE(AN 71.1) ESR PY 2.12 Abnormal Urine (DOAP) BI 11.4 Vitamin A, Vitamin D (SGD) BI 6.5			Describe the health hazards of air, water, noise, radiation and pollution (CM3.1)		
	11-Oct	Fri	Water Soluble Vitamins (Lectures) BI 6.5	MENSTURAL CYCLE 77.1-77.2	Hemostasis PY 2.8 (Lecture)	Immunity PY 2.10 (Lecture)			HUMERUS AN 8.1-4	DISARTICULAT ION10.12
	12-Oct		Second Saturday							
	13-Oct		Sunday							
			Carbohydrates	Hemoglobin	MUSCLE (AN67.1-67)			RADIUS AN3	ANTERIOR COMPARTMENT OF ARM	

	14-Oct	Mon	Carbohydrates (L) BI 3.1	Hemoglobin PY 2.3 (Lecture)	PCV PY 2.12			RADIUS-AN8. 1,8.2,8.4	ARM (AN11.1,11.2)
	15-Oct	Tue	Hemostasis PY 2.8 (Lecture)	Cell Biology (Lectures) BI 1.1	MUSCLE (AN67.1-67) PCV PY 2.12 Abnormal Urine (DOAP) BI 11.4 Carbohydrates (SGD) BI 3.1			ULNA (8.1,8.2,8.4)	CUBITAL FOSSA(11.3,11.5,11.6)
Week 5	16-Oct	Wed	ELBOW JOINT& CUBITAL FOSSA 11.3,11.5,11.6,13.3 AP	Immunity PY 2.10 (Lecture)	MUSCLE (AN67.1-67) Hb Estimation PY 2.11 Abnormal Urine (DOAP) BI 11.4 Carbohydrates (SGD) BI 3.1	LUNCH BREAK		NERVOUS TISSUE AN 68.1,2,3 KJ	POSTERIOR COMPARTMENT OF ARM(11.1,11.2,11.4)
	17-Oct	Thu	Hemostasis PY 2.8 (Lecture)	Enzymes (Lectures) BI 2.4	MUSCLE (AN67.1-67) Hb Estimation PY 2.11 Abnormal Urine (DOAP) BI 11.4 Carbohydrates(SGD) BI 3.1			Describe the health hazards of air, water, noise, radiation and pollution (CM3.1)	
	18-Oct	Fri	Water Soluble Vitamins (Lectures) BI 6.5	FERTILIZATION 77.4,77.5	Neuromuscular Junction PY 3.4 (Lecture)	Muscle Physiology PY 3.7 (Lecture)		CARPAL BONES (8.1,8.2,8.4,8.5,8.6)	FRONT OF FOREARM AND HAND(12.1-12.10)
	19-Oct	Sat	PALM 12.5-7,12.9,12.10,12.14-15 Lecture TJ	Erythropoiesis PY 2.4 (Lecture)	**Short Exam 1** (Cell General Physiology, Nerve Muscle Physiology & Blood)			FRONT OF FOREARM AND HAND(12.1-12.10)	
	20-Oct	Sunday							
	21-Oct	Mon	Carbohydrates (L) BI 3.1	Anemia PY 2.5 (Lecture)	Nervous Tissue AN 68.1,2,3 Blood indices & Osmotic Fragility PY 2.11 & PY 2.12 Abnormal Urine (DOAP) BI 11.4 Enzymes (SGD) BI 2.1,2.3,2.4			FRONT OF FOREARM AND HAND(12.1-12.10)	
	22-Oct	Tue	Hemostasis PY 2.8 (Lecture)	Enzymes (Lectures) BI 2.4	Nervous Tissue AN 68.1,2,3 Blood indices & Osmotic Fragility PY 2.11 & PY 2.12 Abnormal Urine (DOAP) BI 11.4 Enzymes (SGD) BI 2.1,2.3,2.4			EXTENSOR COMPARTMENT OF FOREARM(12.11-12.15)	
Week 6	23-Oct	Wed	NERVES OF UPPER LIMB AN 10.13,11.4,12.4,12.8,12.13 AD	Anemia & Jaundice PY 2.5 (Lecture)	Nervous Tissue AN 68.1,2,3 SGD PY 1.1, 1.9 Abnormal Urine (DOAP) BI 11.4 Enzymes (SGD) BI 2.1,2.3,2.4	LUNCH BREAK		BLOOD VESSELS AN 69.1-3 KJ	EXTENSOR COMPARTMENT OF FOREARM(12.11-12.15)
	24-Oct	Thu	Muscle Physiology PY 3.7 (Lecture)	Protein Chemistry (SDL) BI 5.1	Nervous Tissue AN 68.1,2,3 SGD PY 1.1, 1.9 Abnormal Urine (DOAP) BI 11.4 Enzymes (SGD) BI 2.1,2.3,2.4			Describe the concept of solid waste, human excreta and sewage disposal (CM3.4)	

	25-Oct	Fri	Water Soluble Vitamins (Lectures) BI 6.5	1ST AND 2ND WEEK OF DEVELOPMENT 78.1-5 EA LECTURE	Action potential and its properise in different muscle types(skeletal & smooth) PY 3.8 (Lecture)	Neuromuscular junction PY 3.5 (Lecture)			RADIOLOGY/SURFACE ANATOMY OF UL X RAY AN 13.5,13.6,13.7 AP/TJ	
	26-Oct	Sat	JOINTS OF UPPER LIMB 13.3,13.4 AP	Neuromuscular junction PY 3.6 (Lecture)	**Test on Cell Biology, Enzymes and Carbohydrates**			EARLY CLINICAL EXPOSURE		
	27-Oct	Sunday								
Week 7	28-Oct	Mon	Digestion and Absorption of Carbohydrates (Lectures) BI 3.2	Hemostasis PY 2.8 (Lecture)	BLOOD VESSELS AN 69.1-3 WBC Count PY 2.11 Colorimetry (DOAP) BI 11.6 Water Soluble Vitamins (SGD) BI 6.5		LUNCH BREAK	UPPER LIMB PART COMPLETION EXAM		
	29-Oct	Tue	Molecular basis of muscle contraction in skeletal and in smooth muscle PY 3.9 (Lecture)	Lipids (Lectures) BI 4.1	BLOOD VESSELS AN 69.1-3 WBC Count PY 2.11 Colorimetry (DOAP) BI 11.6 Water Soluble Vitamins (SGD) BI 6.5			INTRODUCTION TO LOWER LIMB AN 15.1,2,3,4,5 LECTURE TJ	FRONT AND MEDIAL SIDE OF THIGH AN 15.1,2,3,4,5	
	30-Oct	Wed	FRONT OF THIGH AN 15.1,2,3,4,5 LECTURE AD	Structure and functions of digestive system PY 4.1 (Lecture)	BLOOD VESSELS AN 69.1-3 WBC Count (Revision) PY 2.11 Colorimetry (DOAP) BI 11.6 Water Soluble Vitamins (SGD) BI 6.5			LYMPHOID TISSUE AN 70.1,2 LECTURE KJ	FRONT AND MEDIAL SIDE OF THIGH AN 15.1,2,3,4,5	
	31-Oct	Thu	Molecular basis of muscle contraction in skeletal and in smooth muscle PY 3.9 (Lecture)	Protein Chemistry (Lectures) BI 5.1	BLOOD VESSELS AN 69.1-3 WBC Count PY 2.11 (Revision) Colorimetry (DOAP) BI 11.6 Water Soluble Vitamins (SGD) BI 6.5			Describe the standards of housing and the effect of housing on health (CM3.5)	Enumerate and describe the presenting features of patients with occupational illness including agriculture (CM11.1)	Describe the principles of ergonomics in health preservation (CM11.4) Describe the occupational disorders of health professionals and their prevention and management (CM11.5)

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA				
DEPARTMENT OF ANATOMY				
FIRST YEAR MBBS BATCH 2019				
OCTOBER 2019				
Date	Time	Topic	SLOs	Faculty
10/1/2019, 10/3/19	10 -12 am	CARTILAGE(AN 71.2) DOAP	Identify various types of cartilage under the microscope Describe various types based on their microscopic appearance Describe the structure of various types of cartilages Describe the structure of various types of cartilages Describe the function of each type of cartilage based on its composition Identify and Draw a neat labelled histological picture of hyaline, elastic and fibrocartilage	ALL
10/1/2019	1-4 pm	AN 10.1-7 D	Identify boundaries and contents of axilla Decribe the boundaries and contents of axxilla Identify the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein Describe demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein Demonstrate the origin, extent, course, parts, relations and branches of axillary artery & tributaries of vein Describe formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus Identify demonstrate formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus Demonstrate formation, branches, relations, area of supply of branches, course and relations of terminal branches of brachial plexus Describe the anatomical groups of axillary lymph nodes and specify their areas of drainage Explain variations in formation of brachial plexus	ALL

10/4/2019	9-10 am	OOGENESIS, OVARIAN CYCLE 77.1-77.3 LECTURE EA	Define ovarian cycle Enumerate the phases of the ovarian cycle Describe the changes occurring in the preovulatory phase of the ovarian cycle Draw and label diagrams depicting folliculogenesis Describe the changes occurring in the ovulatory phase of the ovarian cycle Describe the changes occurring in the post-ovulatory phase of the ovarian cycle Define ovulation Describe the sequence of events occurring during ovulation Explain the factors responsible for ovulation Describe the hormonal control of ovarian and uterine cycles Correlate the phases of the menstrual cycle with the various phases of ovarian cycle Define oogenesis Describe the process of oogenesis before birth Describe the process of oogenesis after birth till puberty Describe the process of oogenesis after puberty Enumerate the differences between spermatogenesis and oogenesis Draw and label a diagram depicting structure of an ovum during ovulation	EA
10/4/2019	2-3 PM	SCAPULA(AN8.1,8.4) SGD	Able to hold in anatomical position Determine the side Define its borders and surfaces Describe its process. E.g.: coracoid- type of epiphysis and muscles attached etc. Able to mention the muscles attached and its action on Scapula. Able to demonstrate the movements of scapula and name the muscles responsible to the action.	

10/4/2019	3-4 PM	DISSECTION OF BACK(AN10.8,10.9) DOAP	Describe,the position, attachment, nerve supply and actions of trapezius and latissimus dorsi Identify the position, attachment, nerve supply and actions of trapezius and latissimus dorsi Demonstrate the position, attachment, nerve supply and actions of trapezius and latissimus dorsi Describe the arterial anastomosis around the scapula Mention the boundaries of triangle of auscultation	ALL
10/9/2019	8-9 AM	SHOULDER JOINT 10.12 LECTURE AD	Describe the type of the joint Describe the articular surfaces, capsule, synovial membrane, ligaments of the shoulder joint Describe the relations, movements, muscles involved of the shoulder joint Describe the blood supply, nerve supply of the shoulder joint Describe the applied anatomy related to the shoulder joint	AD
10/9/2019, 10/10/19	10-12 AM	BONE(AN 71.1) DOAP	Identify bone under the microscope Classify various types based on their microscopic appearance Describe the structure of bone Describe the function of bone based on its composition Identify and Draw a neat labelled histological picture of horizontal and transverse section of bone	ALL
10/9/2019	1- 2 PM	HISTOLOGY MUSCLE (AN67.1-67) LECTURE KJ	Describe the microscopy of skeletal muscle, cardiac muscle and smooth muscle Enumerate the microscopic difference between skeletal, cardiac and smooth muscle Classify muscles with examples Identify and Draw a neat labelled histological picture of skeletal muscle, cardiac muscle and smooth muscle Describe the structure of muscles with its function correlation. Describe the ultramicroscopic structure of skeletal	KJ

10/9/2019	2-4 PM	SCAPULA REGION 10.10,10.11, 10.13 DOAP	Describe the deltoid and rotator cuff muscles Identify the deltoid and rotator cuff muscles Describe the attachment of serratus anterior with its action Identify the attachment of serratus anterior muscle Demonstrate the action of serratus anterior Explain anatomical basis of Injury to axillary nerve during intramuscular injections	ALL
10/11/2019	9-10 AM	MENSTURAL CYCLE 77.1-77.2 LECTURE EA	Define menstrual cycle Specify the purpose of the menstrual cycle Enumerate the phases of the menstrual cycle Enumerate the changes occurring in the endometrium of the uterus during the menstrual cycle Describe the changes occurring in the proliferative phase of the menstrual cycle Describe the changes occurring in the secretory phase of the menstrual cycle Describe the changes occurring in the menstrual phase of the menstrual cycle Explain the mechanism of onset of menstrual bleeding Describe the hormonal control of ovarian and uterine cycles Correlate the phases of the menstrual cycle with the various phases of ovarian cycle	EA
10/11/2019	2-3 PM	HUMERUS AN 8.1-4 SGD	Able to hold in anatomical position Determine the side Describe the parts and its features. Identify spiral grove Illustrate the site where nerves are related to humerus Able to mention the muscles attached and its action on humerus. Able to demonstrate articulation of humerus with scapula and clavicle.	ALL
10/11/2019	3-4 PM	DISARTICULATION10.12 DOAP	Demostrate the type of the joint Demonstrate the articular surfaces, capsule, synovial membrane, ligaments of the shoulder joint Demonstrate the relations, movements, muscles involved of the shoulder joint Demonstrate the blood supply, nerve supply of the shoulder joint	ALL

10/14/19 - 10/17/19	10-12 AM	MUSCLE (AN67.1-67) DOAP	Describe the microscopy of skeletal muscle, cardiac muscle and smooth muscle Enumerate the microscopic difference between skeletal, cardiac and smooth muscle Classify muscles with examples Identify and Draw a neat labelled histological picture of skeletal muscle, cardiac muscle and smooth muscle	ALL
10/14/2019	1-2 PM	RADIUS-AN8.1,8.2,8.4 SGD	Able to hold in anatomical position Determine the side Describe the parts and its features. Able to mention the muscles attached and its action on radius	ALL
10/14/2019	2-4 PM	ANTERIOR COMPARTMENT OF ARM (AN11.1,11.2) DOAP	Describe muscle groups of upper arm with emphasis on biceps brachii Demonstrate muscle groups of upper arm with emphasis on biceps brachii Identify origin, course, relations, branches (or tributaries), termination of brachial artery, median nerve, ulnar nerve, musculocutaneous nerve in arm Describe origin, course, relations, branches (or tributaries), termination ofbrachial artery, median nerve, ulnar nerve, musculocutaneous nerve in arm	ALL
10/15/2019	1-2 PM	ULNA (8.1,8.2,8.4) SGD	student should be Able to hold in anatomical position Determine the side Describe the parts and its features. Able to mention the muscles attached and its action on Ulna. Able to articulate radius and ulna and demonstrate supination and pronation.	ALL
10/15/2019	2-4 PM	CUBITAL FOSSA(11.3, 11.5,11.6) DOAP	Describe the anatomical basis of Venepuncture of cubital veins Identify & describe boundaries and contents of cubital fossa Describe the anastomosis around the elbow joint	ALL

10/16/2019	8-9 AM	ELBOW JOINT& CUBITAL FOSSA 11.3,11.5,11.6,13.3 LECTURE AP	Describe the anatomical basis of Venepuncture of cubital veins Identify & describe boundaries and contents of cubital fossa Draw a neat labelled diagram of the anastomosis around the elbow joint Describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint,	AP
10/16/2019	1- 2 PM	NERVOUS TISSUE AN 68.1,2,3 LECTURE KJ	Review of general introduction to nervous system with specific review on components of nervous tissue and their function. Discuss the basis for classification of neurons and classify neurons List the types of neurons Describe the structure of unipolar and multipolar neurons in microscopic sections of nervous tissue List the types of ganglia (motor and sensory) Describe the coverings and structure of a peripheral nerve in the microscopic slide – H&E stain and special stain Classification and description of neuroglia and identification of their location in nervous tissue in a H&E stained section or a special stained section Describe the structure of cell body of a neuron and identify it in a microscopic section Describe the structure of processes of neuron especially the axon and their identification in a microscopic section Discuss in detail about the Axon Differentiate the Myelinated and unmyelinated Axons Explain the process of Myelination and its functional importance and clinical application Correlate the structure and function of neuron	KJ
10/16/2019	2-4 PM	POSTERIOR COMPARTMENT OF ARM(11.1,11.2,11.4) DOAP	Describe muscle groups of upper arm with emphasis on triceps brachii Demonstrate muscle groups of upper arm with emphasis ontriceps brachii Identify origin, course, relations, branches (or tributaries), termination of profunda brachi artery, radial nerve, axillary nerve in arm Describe origin, course, relations, branches (or tributaries), termination ofprofunda brachi artery, radial nerve, axillary nerve in arm Describe the anatomical basis of Saturday night paralysis	

10/18/2019	9-10 AM	FERTILIZATION 77.4,77.5 LECTURE EA	Define fertilization Enlist the stages of fertilization Explain the process of approximation of gametes Explain the process of capacitation of sperms Enlist the barriers penetrated by the sperm before fusion with the ovum Explain acrosome reaction Enlist the effects of fertilization Describe the process of contact and fusion of gametes during fertilization Enumerate the techniques of permanent contraception Enumerate the techniques of temporary contraception Explain the anatomical basis of barrier techniques of contraception in both the sexes Describe the effects of contraceptive hormonal pills on phases of the ovarian cycle	EA
10/18/2019	2-3 PM	CARPAL BONES(8.1,8.2,8.4,8.5,8.6) SGD	Determine the side Able to mention the type of each bone and its feature. Identify each carpal and its distinguishing feature/s. Able to interpret carpal bones in X- Ray film.	ALL
10/19/2019	08-09am	PALM 12.5-7,12.9,12.10,12.14-15 Lecture TJ	Describe small muscles of hand. Also describe movements of thumb and muscles involved Describe movements of thumb and muscles involved Describe course and branches of important blood vessels and nerves in hand Explain infection of fascial spaces of palm Describe origin, course, relations, branches (or tributaries),termination of important nerves and vessels of back of forearm Describe compartments deep to extensor retinaculum Describe extensor expansion formation	

21-10-2019 to 24-10-2019	10-12am	Nervous Tissue AN 68.1,2,3	Describe the structure and identify the unipolar and multipolar neurons in microscopic sections of nervous tissue Draw the different types of neurons. Describe and identify the dorsal root ganglion and sympathetic ganglion in a histological section Draw and label the dorsal root ganglion and sympathetic ganglion Describe and identify the coverings and structure of a peripheral nerve in the microscopic slide – H&E stain and special stain Draw and label the coverings of a transverse section of a peripheral nerve Describe the structure of cell body of a neuron and identify it in a microscopic section Describe the structure of processes of neuron especially the axon and their identification in a microscopic section	ALL
18-10-2019,21-10-2019 &22-10-2019	1-3pm	FRONT OF FOREARM AND HAND(12.1-12.10)	Describe and demonstrate important muscle groups of ventral forearm with attachments, nerve supply and actions Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of forearm Identify & describe flexor retinaculum with its attachments Explain anatomical basis of carpal tunnel syndrome Identify & describe small muscles of hand. Also describe movements of thumb and muscles involved Identify & describe course and branches of important blood vessels and nerves in hand Describe anatomical basis of Claw hand Identify & describe fibrous flexor sheaths, ulnar bursa, radial bursa and digital synovial sheaths	

22-10-2019 23-10-2019	1-4pm 2-4pm	EXTENSOR COMPARTMENT OF FOREARM(12.11-12.15) DOAP	Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm Identify & describe compartments deep to extensor retinaculum Identify & describe extensor expansion formation	
22-10-2019 &23-102019	1-4pm 2-4pm	EXTENSOR COMPARTMENT OF FOREARM(12.11-12.15 DOAP	Identify, describe and demonstrate important muscle groups of dorsal forearm with attachments, nerve supply and actions Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm Identify & describe compartments deep to extensor retinaculum Identify & describe extensor expansion formation	ALL
10/23/2019	8-9am	NERVES OF UPPER LIMB AN 10.13,11.4,12.4,12.8,12.13 AD	Explain anatomical basis of Injury to axillary nerve during intramuscular injections Describe the anatomical basis of Saturday night paralysis Explain anatomical basis of carpal tunnel syndrome Describe anatomical basis of Claw hand Identify & describe origin, course, relations, branches (or tributaries), termination of important nerves and vessels of back of forearm Describe the anatomical basis of Wrist drop	AD
10/23/2019	1-2pm	BLOOD VESSELS AN 69.1-3 KJ	Describe the structure of elastic artery, muscular artery, large and medium sized vein Enumerate the classification of blood vessels, differences in their structure and their functional correlation Describe the structure of resistance vessels and conducting vessels, end arteries along with functional correlation Describe the ultrastructure of blood vessels	KJ

10/25/2019	9-10 am	1ST AND 2ND WEEK OF DEVELOPMENT 78.1-5 LECTURE EA	Describe cleavage and formation of blastocyst Describe the development of trophoblast Describe the process of implantation & common abnormal sites of implantation Describe the formation of extra-embryonic mesoderm and coelom, bilaminar disc and prochordal plate Describe in brief abortion; decidual reaction, pregnancy test	EA
10/25/2019	2-4pm	"RADIOLOGY/SURFACE ANATOMY OF UL X RAY AN 13.5,13.6,13.7"	Identify the bones and joints of upper limb seen in anteroposterior and lateral view radiographs of shoulder region, arm, elbow, forearm and hand Identify important bony landmarks of upper limb: Jugular notch, sternal angle, acromial angle, spine of the scapula, vertebral level of the medial end, Inferior angle of the scapula Identify & demonstrate surface projection of: Cephalic and basilic vein, Palpation of Brachial artery, Radial artery, Testing of muscles: Trapezius, pectoralis major, serratus anterior, latissimus dorsi, deltoid, biceps brachii, Brachioradialis	TJ/AP
10/26/2019	8-9 am	JOINTS OF UPPER LIMB 13.3,13.4 AP	Identify & describe the type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, blood and nerve supply of elbow joint, proximal and distal radio-ulnar joints, wrist joint & first carpometacarpal joint Describe Sternoclavicular joint, Acromioclavicular joint, Carpometacarpal joints & Metacarpophalangeal joint	AP
28-10-19 to 31-10-19	10-12 am	BLOOD VESSELS AN 69.1-3	Draw a neat labelled histological picture of elastic artery, muscular artery, large and medium sized vein Describe the structure of elastic artery, muscular artery, large and medium sized vein	ALL

10/29/2019	1-2PM	INTRODUCTION TO LOWER LIMB AN 15.1,2,3,4,5 LECTURE TJ	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh Describe and demonstrate major muscles with their attachment, nerve supply and actions Describe and demonstrate boundaries, floor, roof and contents of femoral triangle Explain anatomical basis of Psoas abscess & Femoral hernia	TJ
29-10-2019 & 30-10-2019	2-4PM	FRONT AND MEDIAL SIDE OF THIGH AN 15.1,2,3,4,5 DOAP	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh Describe and demonstrate major muscles with their attachment, nerve supply and actions Describe and demonstrate boundaries, floor, roof and contents of femoral triangle Explain anatomical basis of Psoas abscess & Femoral hernia	ALL
10/30/2019	8-9AM	FRONT OF THIGH AN 15.1,2,3,4,5 LECTURE AD	Describe and demonstrate origin, course, relations, branches (or tributaries), termination of important nerves and vessels of anterior thigh Describe and demonstrate major muscles with their attachment, nerve supply and actions Describe and demonstrate boundaries, floor, roof and contents of femoral triangle Explain anatomical basis of Psoas abscess & Femoral hernia	AD
10/30/2019	1-2PM	LYMPHOID TISSUE AN 70.1,2 LECTURE KJ	List the primary and secondary lymphoid organs and differentiate between them Describe the histological features of lymph node, spleen, thymus and tonsil . Correlate the Histological structure of lymph node, spleen, thymus and tonsil with their function	KJ

SreeNarayana Institute of Medical Sciences, Chalakka

Department of Physiology

2019 Reg. Batch

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

WEEK 3				
Date	**Time**	**Topic**	**SLO (The student should be able to)**	**Faculty**
01/10/19 Tuesday	8-9AM	Nerve physiology PY3.1	1. Explain the properties of Action potential 2. Enumerate the steps in conduction of Action Potential in a myelinated and unmyelinated nerve fibre 3. Define graded potential and differentiate it from Action potential	Dr Arun K Prakash
	10-12Noon	RBC Count PY 2.11	1. Identify RBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the red cells	Dr.Ahana Salam
03/10/2019 Thursday	8-9M	Nerve physiology PY3.1	1. List the different grades of nerve injury 2. Explain the degenerative changes taking place at different sites of nerve fibre following an injury 3. Describe Wallerian degeneration 4. Explain about the regenerative changes seen in a nerve fibre following nerve injury	Dr Arun K Prakash
	10-12Noon	RBC Count PY 2.11	1. Identify RBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the red cells	Dr.Ahana Salam

04/10/2019 Friday	10-11AM	WBC PY 2.6	1. Classify WBCS 2. Morphology of WBC 3. Identifying features of each WBC	Dr Jincy Joseph
	11-12Noon	WBC PY 2.6	4. Granulopoiesis and regulation 5. Functions of WBC 6. Variations of WBC count 7. Leukaemia	Dr.Nithi Varghese
05/10/2019 Saturday	9-10AM	Immunity PY 2.10	1. Write the definition of immunity 2. Classify Immunity	Dr.Nithi Varghese

WEEK 4				
Date	**Time**	**Topic**	**SLO (The student should be able to)**	**Faculty**
09/10/2019 Wednesday	9-10AM	RBC PY 2.4	1. Describe morphology, composition and functions of RBC 2. Write the normal value of RBC count 3. List the variations in RBC count 4. Differentiate between primary and secondary polycythemia	Dr Indira Kumari K R
	10-12Noon	ESR PY 2.12	1. Describe the clinical importance of doing ESR 2. Enumerate the methods employed for the determination of ESR 3. Express the result of ESR from a given filled tube	Dr.Ahana Salam
10/10/2019 Thursday	8-9M	Homeostasis PY 1.2	1. Define homeostasis. 2. Describe the regulation systems in the body.	Dr Reena Alexander

			3. Describe the process of negative and positive feedback using simple examples	
	10-12Noon	ESR PY 2.12	1. Describe the clinical importance of doing ESR 2. Enumerate the methods employed for the determination of ESR 3. Express the result of ESR from a given filled tube	Dr.Ahana Salam
11/10/2019 Friday	10-11AM	Hemostasis PY 2.8	1. Definition of Heamostasis 2. Steps of Haemostasis 3. Definition of coagulation with stages	Dr Reena Alexander
	11-12Noon	Immunity PY 2.10	3.Cell mediated immunity Physiological basis of tissue rejection Auto immune disease	Dr.Nithi Varghese

WEEK 5				
Date	**Time**	**Topic**	**SLO** **(The student should be able to)**	**Faculty**
14/10/ 19 Monday	9-10AM	Hemoglobin PY 2.3	1. List the steps of haemoglobin synthesis. 2. Classify Hb according to structure 3. Write the normal values of Hb. 4. List the functions of HB 5. List the common physiological & pathological variations in Hb concentration. 6. Enumerate the various Hb complexes. 7. Describe the steps for breakdown of Hb.	Dr Indira Kumari K R
	10-12Noon	PCV PY 2.12	1. Describe the clinical importance of doing haematocrit 2. Enumerate the methods employed for the	Dr Jincy Joseph

			determination of haematocrit 3. Express the result of haematocrit from a given filled tube after centrifuging	
15/10/19 Tuesday	8-9AM	Hemostasis PY 2.8	4. Pathways of coagulation in detail 5. Clot retraction 6. Anti heamostatic mechanism	Dr Reena Alexander
	10-12Noon	PCV PY 2.12	1. Describe the clinical importance of doing haematocrit 2. Enumerate the methods employed for the determination of haematocrit 3. Express the result of haematocrit from a given filled tube after centrifuging	Dr Jincy Joseph
16/10/2019 Wednesday	9-10AM	Immunity PY 2.10	5. Humoral immunity Immunoglobulins	Dr Nithi Varghese
	10-12Noon	Hb Estimation PY 2.11	1. Determine the Hb level by the Sahli's acid haematin method 2. List other methods of estimation of haemoglobin	Dr Nithi Varghese
17/10/2019 Thursday	8-9M	Hemostasis PY 2.8	7. Anticoagulants	Dr Reena Alexander
	10-12Noon	Hb Estimation PY 2.11	1. Determine the Hb level by the Sahli's acid haematin method 2. List other methods of estimation of haemoglobin	Dr Nithi Varghese

18/10/2019 Friday	10-11AM	Neuromuscular Junction PY 3.4	1. Draw and label the structure of neuromuscular junction. 2. Explain the structure of neuromuscular junction 3. Explain the process of impulse transmission across neuromuscular junction	Dr.Nithi Varghese
	11-12Noon	Muscle Physiology- Muscle fibres and their structure PY 3.7	1. List the different types of muscle fibres 2. Explain the structural peculiarities of each type of muscle fibre 3. Draw and label the light microscopic appearance of a sarcomere 4. Enlist the different types of contractile and regulatory proteins in skeletal and smooth muscle	Dr. Arun K Prakash
19/10/2019 Saturday	9-10AM	Erythropoiesis PY 2.4	1. Define erythropoiesis 2. List the sites of erythropoiesis. 3. Describe different stages of erythropoiesis with the help of diagrams 4. Disuss the regulation of erythropoiesis. 5. Ennumerate the importance of reticulocyte count	Dr Indira Kumari KR

WEEK 6				
Date	**Time**	**Topic**	**SLO (The student should be able to)**	**Faculty**
21/10/ 19 Monday	9-10AM	Anemia PY2.5	1. Define anemia 2. Classify anemia 3. List the common causes of each category of anemia.	Dr Indira Kumari KR

			4. List the clinical features of anemia.	
	10-12Noon	Blood indices & Osmotic Fragility PY 2.11 & PY 2.12	1. Enlist the blood indices & calculate the indices based on the values obtained in the previous experiments. 2. Explain the significance and accuracy of the various blood indices 3. Define osmotic fragility 4. Enlist the significance of osmotic fragility in various clinical conditions.	Dr.Ahana Salam
22/10/19 Tuesday	8-9AM	Hemostasis PY 2.8	5. List tests of coagulation	Dr Reena Alexander
	10-12Noon	Blood indices & Osmotic Fragility PY 2.11 & PY 2.12	1. Enlist the blood indices & calculate the indices based on the values obtained in the previous experiments. 2. Explain the significance and accuracy of the various blood indices 3. Define osmotic fragility 4. Enlist the significance of osmotic fragility in various clinical conditions.	Dr.Ahana Salam
23/10/2019 Wednesday	9-10AM	Anemia & jaundice PY2.5	5. Describe the major blood picture of different types of anemias. 6. Define jaundice 7. Classify jaundice. 8. Differentiate the physiological basis & laboratory findings in different types of jaundice.	Dr Indira Kumari KR
	10-11AM	Mammalian cell & Organelles PY 1.1 (SGD)	1. List the components of a cell & describe their functions	Dr Indira Kumari KR

	11-12Noon	Applications of cell physiology & Research PY 1.9 (SGD)	1. Describe patch clamp technique	Dr Reena Alexander
24/10/2019 Thursday	8-9M	Muscle Physiology-Muscle fibres and their structure PY 3.7	5. Describe the structure of a sarcomere 6. Explain the structure of sarcotubular system and its significance	Dr. Arun K Prakash
	10-11AM	Mammalian cell & Organelles PY 1.1 (SGD)	1. List the components of a cell & describe their functions	Dr.Nithi Varghese
	11-12Noon	Applications of cell physiology & Research PY 1.9 (SGD)	1. Describe patch clamp technique	Dr. Arun K Prakash
25/10/2019 Friday	10-11AM	Action potential and its properties in different muscle types (skeletal & smooth) PY3.8	1. Explain the ionic basis of Action potential in skeletal muscle with the help of a diagram 2. List the differences between action potential in skeletal and smooth muscle	Dr. Arun K Prakash
	11-12Noon	Neuromuscular Junction PY 3.5	4. Classify the drugs acting on neuromuscular junction and explain their mechanism of action	Dr.Nithi Varghese
26/10/2019 Saturday	9-10AM	Neuromuscular Junction PY 3.6	5. Pathophysiology of myasthenia gravis	Dr Nithi Varghese

WEEK 7				
Date	**Time**	**Topic**	**SLO (The student should be able to)**	**Faculty**
28/10/ 19 Monday	9-10AM	Hemostasis PY 2.8	6. Describe bleeding disorders- Hemophilia, Purpura, vWD, Thrombosis, Embolism, DIC	Dr Reena Alexander
	10-12Noon	WBC Count PY 2.11	1. Identify WBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the white blood cells	Dr.Ahana Salam
29/10/19 Tuesday	8-9AM	Molecular basis of muscle contraction in skeletal and in smooth muscles PY3.9	1. Explain the steps involved in contraction of a skeletal muscle fibre 2. Enumerate the role of ATP in muscle contraction 3. List the changes in a sarcomere following muscle contraction 4. Explain the mechanism of muscle contraction in a smooth muscle 5. List the differences in the contractile process in a skeletal and smooth muscle	Dr. Arun K Prakash
	10-12Noon	WBC Count PY 2.11	1. Identify WBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the white blood cells	Dr.Ahana Salam
30/10/2019 Wednesday	9-10AM	The structure and functions of digestive system PY4.1	1. List the Parts of GIT 2. Enumerate the functions of Digestive system	Dr Indira Kumari KR
	10-12Noon	WBC Count (Revision) PY 2.11	1. Identify WBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the white blood cells	Dr Jincy Joseph

31/10/2019 Thursday	8-9M	Molecular basis of muscle contraction in skeletal and in smooth muscles PY3.9	6. Explain Frank starling's law and its molecular basis in skeletal muscle 7. Explain length tension relationship in smooth muscle 8. Describe excitation contraction coupling in skeletal muscle 9. Describe the excitation contraction coupling in smooth muscle	Dr. Arun K Prakash
	10- 12Noon	WBC Count (Revision) PY 2.11	1. Identify WBC pipette; fill it with blood and diluents 2. Charge the counting chamber and count the white blood cells	Dr Jincy Joseph

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

Date	Time	Topic	SLO	Faculty
03/10/2019	1-2pm	**2.4)Describe social psychology, community behavior and community relationship and their impact on health and disease**	1.Describe the social factors influencing health of the people and its relation 2.List the various concepts in sociology	**KN**
	2-3pm		Define and discuss the social psychology and its different aspects	**VC**
	3-4pm		Demonstrate the various sociometric methods with suitable examples	**KK/VC/BS**
10/10/2019	1-2pm	**3.1)Describe the health hazards of air, water, noise, radiation and pollution**	Discuss the importance of environment in health and list its components	**AJ**
	2-3pm		1.Define safe and wholesome water 2.Enumerate thevarious sources and uses of water 3.List the causes of water pollution	**AR**
	3-4pm		Classify water related disease and list the water borne diseases	**AM**
17/10/2019	1-2pm		1.Describe the composition of air 2.Define air pollution and list its sources 3.Discuss the effects of air pollution	**BS**
	2-3pm		1.Define noise pollution 2.Discuss the effects of noise pollution 3.Enumerate the various sources and types of radiation 4.Discuss the biological effects of radiation exposure	**JD**
	3-4pm		Discuss the prevention and control of noise pollution	**KN**

24/10/19	1-2pm	**3.4)Describe the concept of solid waste, human excreta and sewage disposal**	1.Define solid waste 2.Enumerate the health hazards related to solid waste 3.Discuss the various methods of disposal of solid waste in urban and rural areas	**VC**
	2-3pm		1.Discuss sanitation barrier 2.Enumerate the methods of excreta disposal	**AJ**
	3-4pm		1.Differentiate between sewage and sullage 2.List the steps in sewage treatment	**KK**
31/10/2019	1-2pm	**3.5)Describe the standards of housing and the effect f housing on health**	Enumerate and discuss the housing standards and its relationship to health	**AR**
	2-3pm	**11.1)Enumerate and describe the presenting features of patients with occupational illness including agriculture**	Enumerate the occupational diseases and its hazards	**JD**
	3-4pm	**11.4)Describe the principles of ergonomics in health preservation**	Describe the principles of Ergonomics	**BS**
		11.5)Describe the occupational disorders of health professionals and the their prevention and management	Describe the occupational disorders among health professionals and its prevention	**AM**

SREE NARAYANA INSTITUTE OF MEDICAL SCIENCES, CHALAKKA

DEPARTMENT OF BIOCHEMISTRY

FIRST YEAR MBBS BATCH 2019

THEORY TEACHING SCHEDULE FOR THE MONTH OF OCTOBER 2019

DATE	TIME	TOPIC		SLO	FACULTY
01.10.2019	9.00-10.00 am	Describe the molecular and functional organisation of a cell and its subcellular components BI 1.1	1	Define Cell	Dr.Asha
			2	Enumerate the different types of cell	
			3	Describe the structural organisation of a prokaryotic cell	
			4	Describe the structural organisation of a eukaryotic cell	
			5	Enumerate the different types of subcellular organelles	
			6	Enumerate the different types of subcellular organelles	
			7	Describe the structure of Nucleus	
			8	Describe the functions of Nucleus	
			9	Describe the structure of Endoplasic Reticulum	
			10	Describe the different types of Endoplasmic Reticulum	
			11	Describe the functions of Endoplasmic Reticulum	
			12	Describe the structure of Mitochondria	
			13	Describe the functions of Mitochondria	
			14	Describe the structure of Golgi Complex	
			15	Describe the functions of Golgi Complex	
			16	Describe the structure of Lysosomes	
			17	Describe the functions of Lysosomes	
			18	Describe the structure of Peroxisomes	
			19	Describe the functions of Peroxisomes	
03.10.2019	9.00-10.00 am	Describe and discuss enzyme inhibitor as poisons and drugs as therapeuric	1	Define inhibition	Dr.Sneha
			2	Define inhibitors	
			3	Enumerate inhibitors	
			4	Describe the reversible competitive inhibitors with examples	
			5	Describe the reversible noncompetitive inhibitors with examples	

		enzymes BI 2.4	6	Describe the reversible uncompetitive inhibitors with examples	
04.10.2019	8.00-9.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency BI 6.5	1	Define vitamin	Dr.Prabhakaran
			2	Enlist the vitamins correctly on the basis of water-solubility	
			3	Enumerate the RDA of vitamin B1	
			4	Enumerate the Sources of vitamin B1	
			5	Describe the Biochemical Role of vitamin B1	
			6	Discuss the deficiency manifestations of vitamin B1	
07.10.2019	8.00-9.00 am	**Holiday - Mahanavami, Vijayadashami**			
08.10.2019	9.00-10.00 am				
10.10.2019	9.00-10.00 am	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural elements and storage in the human bodyB 3.1	1	Describe the structure of disacharides	Dr.Anju
			2	Describe the structure of homopolysacharides	
			3	Explain the biomedical importance of homopolysaccharides	
		Describe the biochemical role of	1	Enumerate the RDA of vitamin B2	
			2	Enumerate the Sources of vitamin B2	
			3	Describe the Biochemical Role of vitamin B2	

11.10.2019	8.00-9.00 am	vitamins in the body and explain the manifestations of their deficiency BI 6.5	4	Discuss the deficiency manifestations of vitamin B2	Dr.Prabhakaran
			5	Enumerate the RDA of vitamin B3	
			6	Enumerate the Sources of vitamin B3	
			7	Describe the Biochemical Role of vitamin B3	
			8	Discuss the deficiency manifestations of vitamin B3	
14.10.2019	8.00-9.00 am	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural elements and storage in the human bodyBI 3.1	1	Describe the structure of heteropolysacharides	Dr.Anju
			2	Explain the biomedical importance of heteropolysaccharides	
			3	Describe the different classes of glycosylated proteins	
15.10.2019	9.00-10.00 am	Describe the molecular and functional organisation of a cell and its subcellular components BI 1.1	1	Describe the subcellular fractionation	Dr.Asha
			2	Describe the markers enzymes of different subcellular organelles	
		Describe	1	Describe the irrreversible inhibitors	
			2	Describe the suicidal inhibitors	

17.10.2019	9.00-10.00 am	Describe and discuss enzyme inhibitor as poisons and drugs as therapeuric enzymes BI 2.4	3	Describe the feedback inhibitors	Dr.Sneha
			4	Describe the transition state analogue inhibitors	
18.10.2019	8.00-9.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency BI 6.5	1	Enumerate the RDA of vitamin B6	Dr.Prabhakaran
			2	Enumerate the Sources of vitamin B6	
			3	Describe the Biochemical Role of vitamin B6	
			4	Discuss the deficiency manifestations of vitamin B6	
			5	Enumerate the RDA of vitamin B7	
			6	Enumerate the Sources of vitamin B7	
			7	Describe the Biochemical Role of vitamin B7	
			8	Discuss the deficiency manifestations of vitamin B7	
			9	Enumerate the RDA of vitamin Pantothenic Acid	
			10	Enumerate the Sources of vitamin Pantothenic Acid	
			11	Describe the Biochemical Role of vitamin Pantothenic Acid	
			12	Discuss the deficiency manifestations of Pantothenic Acid	

21.10.2019	8.00-9.00 am	Discuss and differentiate monosaccharides, disaccharides and polysaccharides giving examples of main carbohydrates as energy fuel, structural elements and storage in the human bodyBI 3.1	1	Expalin Dietary fibres and its importance	Dr.Anju
			2	Describe blood glucose Ag	
22.10.2019	9.00-10.00 am	Describe and discuss enzyme inhibitor as poisons and drugs as therapeuric enzymes BI 2.4	1	Describe inhibitors as poisons	Dr.Sneha
			2	Describe inhibitors as drugs	
			3	Describe inhibitors as therapeutics	
24.10.2019	9.00-10.00 am	Describe and discuss structural organisation of proteins BI 5.1	1	Enumerate the animo acids.	Dr.Asha
			2	Discuss properties of different amino acids.	
			1	Enumerate the RDA of vitamin Lipoic Acid	
			2	Enumerate the Sources of vitamin Lipoic Acid	

25.10.2019	8.00-9.00 am	Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency BI 6.5	3	Describe the Biochemical Role of vitamin Lipoic Acid	Dr.Prabhakaran
			4	Discuss the deficiency manifestations of Lipoic Acid	
			5	Enumerate the RDA of vitamin choline	
			6	Enumerate the Sources of vitamin choline	
			7	Describe the Biochemical Role of vitamin choline	
			8	Discuss the deficiency manifestations of choline	
			9	Enumerate the RDA of vitamin ascorbic acid	
			10	Enumerate the Sources of vitamin ascorbic acid	
			11	Describe the Biochemical Role of vitamin ascorbic acid	
			12	Discuss the deficiency manifestations of ascorbic acid	
26.10.2019	10.00-12.00 am	Test on Cell Biology, Enzymes and Carbohydrates			
28.10.2019	8.00-9.00 am	Describe the processes involved in the digestion and assimilation of carbohydrates and storage. BI 3.2	1	Describe the different types of transport mechanisms	Dr.Anju
			2	Define active transport with suitable examples	
			3	Define passive transport with suitable examples	
			4	Describe the feartures of facilitated diffussion	
			5	Define secondary active transport with suitable examples	
			6	Define symport with suitable examples	
			7	Define antiport with suitable examples	

29.10.2019	9.00-10.00 am	Describe and discuss main classes of lipids (Essential/non-essential fatty acids, cholesterol and hormonal steroids, triglycerides, major phospholipids and sphingolipids) relevant to human system and their major functions. BI 4.1	1	Define lipids	Dr.Sneha
			2	Classify lipids correctly.	
			3	Discuss biomedical importance of lipids in human beings.	
31.10.2019	9.00-10.00 am	Describe and discuss structural organisation of proteins BI 5.1	1	Describe primary structure of proteins.	Dr.Asha
			2	Describe secondary structure of proteins.	

Dr.Asha Augusthy

Professor & HOD

Department of Biochemistry