



Karpagam Faculty of Medical Sciences & Research

Recognized by Medical Council of India, New Delhi
 Affiliated to the Tamil Nadu Dr. M.G.R. Medical University, Chennai
 Othakkalmandapam, Coimbatore - 641 032, Tamil Nadu

Phase – I: MBBS Time table (2019-2020)

Day / Time	8 – 9 am	9 – 10 am	10 – 11 am	11 – 1 pm	1-2 pm	2 – 4 pm
Monday	Anatomy	Anatomy (Histology)	Physiology	Anatomy (Dissection)	L u n c h	Practical (Anatomy/Physiology/ Biochemistry)
Tuesday	Physiology	Physiology	Anatomy	Anatomy (Dissection)		Practical (Anatomy/Physiology/ Biochemistry)
Wednesday	Anatomy (Embryology)	Physiology	Biochemistry	Anatomy (Dissection)		Practical (Anatomy/Physiology/ Biochemistry)
Thursday	Biochemistry	Anatomy (Osteology)	Physiology	Anatomy (Dissection)		Physiology (SDL)
Friday	Anatomy	Physiology	Community Medicine	Anatomy (Dissection)		Biochemistry (SDL)
Saturday	Physiology	AETCOM	Early Clinical Exposure (ECE)			Sports
			Physiology*			Community Medicine**

ECE on 1st, 3rd, 4th Saturdays of September, November, January, March, May & July; 1st & 3rd Saturdays of October, December, February, April & June

*Physiology on 4th Saturday of October, December, February, April & June;

**Community Medicine on 1st week of every month (September to July)

Subject	Total Hrs / Year
Anatomy	684
Physiology	488
Biochemistry	250
ECE	84
Community Med.	66
Sports & AETCOM	102
Assessment	122



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Phase – I: MBBS year plan (2019-2020)

Blocks	Topics	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
Foundation Course	Orientation														
	Skill Module														
	Field Visit to community health center														
	Professional developemtn including ethics														
	Sports and extra curricular activities														
	Enhancement of Language/ Computer Skills														
I	General Anatomy, Upper Limb,														
	General Histology I														
	General Embryology I														
	General Physiology, Hematology														
	Cells, Enzymes														
	Chemistry & Metabolism of Carbohydrates I														
II	Lower Limb, General Histology II,														
	General Embryology-II														
	Nerve & Muscle Physiology														
	Chemistry & Metabolism of Carbohydrates II														
	Chemistry & Metabolism of Lipids I														
III	Thorax , Head and Neck														
	Cardiovascular System,														
	Respiratory System,														
	Endocrine system														
	Chemistry & Metabolism of Lipids II														
	Chemistry & Metabolism of Proteins														
	Metabolism and Homeostasis I														
IV	Neuro Anatomy, Genetics														
	Central Nervous System I, Special Senses														
	Metabolism and Homeostasis II														
V	Abdomen														
	Central Nervous System II,														
	Gastrointestinal System,														
	Renal system														
	Molecular Biology, Nutrition,														
	Extra Cellular Matrix														
VI	Pelvis & Perineum														
	Reproductive System														
	Oncogenesis & Immunity														
	Revision														
	Model Exam														
	University Exam														

* After each Unit & Internal Assesment, feedback from students will be taken.



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Phase – I: MBBS Foundation course time table for 2019 - 2020 batch

Day	Session - I	Session - II	Session - III	LUNCH (1-2 pm)	Session - IV (2- 4 PM)	
Day 1	Inaguration & interaction with parents					
Day 2	(8-10am) The MBBS Programme-4 faculties-I,II, III,IV, CRRRI	(10-11.30am) History of Modern Medicine	(11.30-1pm) Physician's role in society	L u n c h	Visit to all Phase I Departments - on rotation with 50 students	
Day3	(8-9am) Principles of primary care; (9-10am) Patient Safety and Biohazard Safety	(10-11am)Vaccination	(11-1pm) Universal Safety Precautions		A-Lib. B-Casualty and ward. C- Blood bank and lab - (on rotation)	
Day 4	(8-10am) National Health policies	(10-12pm) Ethical issues and professionalism- case discussion- group activity	(12-1pm) Attitude of students toward peers, teachers and patients		First Aid, Universal Safety precautions- Hands on training-BLS Group activity	
Day 5	(8-9 am) Tobacco, substance, social media addiction	(9-11am) Health care systems and its delivery	(11-1pm) Alternate Health systems		Sports	
Day 6	(8-10.30am) Interactions with Alumni				(11-1pm) Stress Management- Group activity	Leisure and Extracurricular activities
Day 7	(8-10.30am) Notes taking; Anti ragging				(11- 1pm) Health Insurance	Tamil-students to students-group activity-History taking and talking to a patient-skit- MEU
Day 8	(8-10am) NABH, NAAC	(10-11am) Medical Terminologies				YOGA
Day 9	(8-1pm) - RHTC, UHTC, PHC Visit (On rotation) - Community medicine faculty					
Day 10						
Day 11						
Day 12	(8-10am) - Self directed Learning	(10-11 am) - Startups in medical profession			Communication skills- group activity	
Day 13	(8-10am) - Bio Medical waste management	(10-11 am) - Introduction to ICMR-STs	(11-1pm) Drug safety and profile-Pharmaco vigilance		Sports	
Day 14	(8-11 am) -Skit-6 teams		(11-1pm) Ethical issues and professionalism- case discussion - group activity		Tamil-group activity-History taking skills	
Day 15	(8-10am) Cyber rules and laws, Safe Internet usage	(10-11 am) Utilization of LIBRARY	(11-1pm) Internet and Mobile addiction		Grammar in English	
Day 16	(8-10am) Importance of Nutrition	(10- 11 am) Drug discovery	(11-1pm) Curriculum discussion		English - Role plays	
Day 17	(8-10am) Simulation Based Learning	(10-11 am) Institutional Rules and regulations	(11-1pm) Career pathways		YOGA	
Day 18	(8-10am) What doctors expect from society and nation	(10-11 am) Expectations of society from doctors	(11-1pm) Entrepreneurship in medical profession		Sports	
Day 19	(8-10am) Importance of fitness in doctors	(10-11 am) Personality growth	(11-1pm) Changing scenario in clinical practice		Computer skills	
Day 20	(8-10am) How to prepare for PG NEET	(10-11 am) What doctors expect from institution, Expectations of patients from doctors	(11-1pm) Doctor patient relationship		Communication skills- group activity on breaking bad news	
Day 21	(8-11 am) Time management		(11-1pm) Expectations of teachers, peer students from medical students		Hospital visit- OP,Dialysis Unit, OT, MRD, ICU, NICU- 6 groups- on rotation	
Day 22	(8-11 am) Sports		(11-1pm) Expectations of teachers from students		Feedback and valediction	
Day 23	(8-11 am) Roleplay, chart with presentation- various topics		(11-1pm) Gender sensitivity			
Day 24	(8-11 am) Seminar/Pedagogy		(11-1pm) Interpersonal Relationships			
Day 25	(8-11 am) Extracurricular-Debate		(11-1pm) Extracurricular-QUIZ			



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Block	Month	Anatomy	Physiology	Biochemistry
Block - I	September October	<p>GENERAL ANATOMY AN 1.1 – 1.2 Anatomical terminology (Lecture, DOAP) AN 2.1 – 2.6 General features of Bones & Joints (Lecture, DOAP) AN 3.1 -3.3 General features of Muscle (Lecture) AN 4.1 – 4.5 General features of Skin and Fascia(Lecture, DOAP) AN 5.1 – 5.8 General features of the Cardiovascular system (Lecture) AN 6.1 – 6.3 General Features of Lymphatic system (Lecture) AN 7.1 -7.8 Introduction to the Nervous system (Lecture)</p> <p>UPPER LIMB AN 8.1 – 8.6 Features of individual bones (Upper Limb) (Lecture, DOAP, SGD, Practicals) AN 9.1 – 9.3 Pectoral region AN 10.1 – 10.13 Axilla, Shoulder and Scapular region (Lecture, DOAP, SGD, Practicals) AN 11.1 –11.6 Arm & Cubital fossa (Lecture, DOAP, SGD, Practicals). AN 12.1 – 12.15 Forearm & Hand (Lecture, DOAP, SGD, Practicals). AN 13.1 – 13.8 General Features, Joints, Radiographs & Surface marking (Lecture, DOAP, SGD, Practicals)</p> <p>GENERAL HISTOLOGY – I AN 65.1 – 65.2 Epithelium histology (Lecture, practicals) AN 66.1 – 66.2 Connective tissue histology (Lecture, practicals) AN 71.1 – 71.2 Histology of bone & Cartilage (Lecture, practicals)</p> <p>GENERAL EMBRYOLOGY – I AN 76.1 – 76.2 Introduction to embryology (Lecture) AN 77.1 – 77.6 Gametogenesis and Fertilization (Lecture)</p>	<p>Lecture: General Physiology PY1.1 Cell Physiology PY1.2 Homeostasis PY1.3 Describe intercellular communication PY1.4 Describe apoptosis – programmed cell death PY1.5 Transport mechanisms across cell membrane PY1.6 Body Fluid Compartments PY1.7 Concept of pH & Buffer systems in the body PY1.8 Resting Membrane potential & Action Potential PY1.9 Cell functions & its communication in clinical research</p> <p>Hematology PY2.1 composition and functions of blood components PY2.2 Plasma Proteins PY2.3 Synthesis, functions & variants of Haemoglobin PY2.4 RBC – Formation (Erythropoiesis) & Functions PY2.5 Describe different types of anaemias & Jaundice PY2.6 Describe WBC formation (granulopoiesis) and its regulation PY2.7 Describe the formation of platelets, functions and variations. PY2.8 Hemostasis, Anti coagulants, Bleeding & Clotting disorders PY2.9 Blood groups, Blood transfusion PY2.10 Immunity PY2.11 & PY2.12 Hematocrit, Hb, ESR, RBC, TLC, DLC, Blood Indices</p>	<p>Lecture: Basic Biochemistry BI1.1 Cell and subcellular components Enzyme BI2.1 Enzymes fundamental concepts BI2.2 IUBMB classification BI2.3 Principles of enzyme activity BI2.4 Enzyme inhibition BI2.5 Clinical utility of enzymes BI2.6 Enzyme based assays BI3.1 Chemistry of monosaccharides and disaccharides BI3.2 Digestion and absorption of carbohydrates BI3.3 Glycolysis BI3.4 Gluconeogenesis BI3.5 Glycogen metabolism BI3.6 HMP shunt</p> <p>Practical / DOAP 1) Colorimetry 2) Estimation of SGOT and SGPT-Demonstration 3) Estimation of glucose-DOAP 4) Reactions of carbohydrates- Demonstration 3) Urine dipstick for sugar</p>



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		AN 78.1 – 78.5 Second week of development (Lecture) OSTEOLOGY – SDL VERTICAL INTERGRATION Shoulder joint – Department of Orthopaedics Histology of Lymphoid tissue – Department of Pathology EARLY CLINICAL EXPOSURE X-rays of upper limb – Department of Radiology	SDL: Transport across Cell membrane Resting Membrane Potential & Action Potential PY2.12 Packed Cell Volume & Erythrocyte sedimentation rate (Demonstration) Hemoglobin Erythropoiesis Hemostasis Immunity Practical / DOAP 1) Microscope 2) Microscope & Neubauer Chamber 3) PY2.11 Erythrocyte Count 4) PY2.11 Hemoglobin Estimation 5) PY2.11 Total Leukocyte count 6) PY2.11 Differential Leukocyte count 7) PY2.13 Platelet count (Demonstration) VERTICAL INTERGRATION Apoptosis – Department of Pathology Anemia & Blood Indices – Department of Pathology EARLY CLINICAL EXPOSURE Blood transfusion, Bleeding & Clotting disorders - Blood Bank	SDL: Cell transport Clinical importance of enzymes in Diagnosis Interpretation of laboratory results of enzyme activities Interpretation of analytes related to carbohydrate metabolism VERTICAL INTERGRATION Clinical utility of enzymes - Department of General medicine Enzyme based assays - Department of Pathology Glycogen storage disorders - Department of General medicine EARLY CLINICAL EXPOSURE Myocardial infarction - Department of General Medicine Diabetes mellitus- Department of General Medicine
Internal Assessment - 1 (Theory & Practicals)				



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Block - II	November	<p>LOWER LIMB AN 14.1 – 14.4 Features of individual bones (Lower Limb) (Lecture, DOAP, SGD, Practicals) AN 15.1 – 15.5 Front & Medial side of Thigh (Lecture, DOAP, SGD, Practicals) AN 16.1 – 16.6 Gluteal region & back of Thigh (Lecture, DOAP, SGD, Practicals) AN 17.1 – 17.3 Hip Joint (Lecture, DOAP, SGD, Practicals) AN 18.1 – 18.7 Knee joint, Anterior compartment of leg & Dorsum of foot (Lecture, DOAP, SGD, Practicals) AN 19.1 – 19.7 Back of Leg & Sole (Lecture, DOAP, SGD, Practicals) AN 20.1 – 20.10 General Features, Joints, radiographs & Surface marking (Lecture, DOAP, SGD, Practicals)</p> <p>GENERAL HISTOLOGY - II AN 67.1 – 67.3 Muscle histology (Lecture, practicals) AN 68.1 – 68.3 Nervous tissue histology (Lecture, practicals) AN 69.1 – 69.3 Histology of blood vessels (Lecture, practicals) AN 70.1 – 70.2 Histology of glands & Lymphoid tissue (Lecture, practicals) AN 72.1 Histology of Integumentary system (Lecture, practicals)</p> <p>GENERAL EMBRYOLOGY - II AN 79.1 – 79.6 3rd to 8th week of development (Lecture) AN 80.1 – 80.7 Fetal membranes (Lecture) AN 81.1 – 81.3 Prenatal Diagnosis (Lecture)</p> <p>OSTEOLOGY – SDL</p> <p>VERTICAL INTERGRATION Femur – Medico legal importance – Department of Forensic Medicine</p>	<p>Lecture: Nerve & Muscle Physiology</p> <p>PY3.1 Neurons & Neuroglia, NGF PY3.2 Types, functions & properties of nerve fibers PY3.3 Degeneration and regeneration in peripheral nerves PY3.4 structure of neuro-muscular junction and transmission of impulses PY3.5 & PY3.6 neuro-muscular blocking agents of Myasthenia gravis PY3.7 Types of muscle fibres and their structure PY3.8 Action potential and its properties in different types of muscle fibers PY3.9 molecular basis of muscle contraction in skeletal & Smooth muscles PY3.10 mode of muscle contraction (isometric and isotonic) PY3.11 Explain energy source and muscle metabolism PY3.12 Explain the gradation of muscular activity PY3.13 Describe muscular dystrophy: myopathies PY3.17 Describe Strength-duration curve</p> <p>SDL: Neuromuscular junction Muscle contraction PY3.14 Ergography PY3.18 Computer assisted Amphibian nerve - muscle experiments (Demonstration)</p> <p>Practical / DOAP: 1) PY2.11 Bleeding time & Clotting time 2) PY2.11 Blood Grouping</p>	<p>Lecture: Chemistry and metabolism of carbohydrates</p> <p>BI3.7 TCA cycle BI3.8 Carbohydrate metabolism-Inhibitors BI3.9 Blood glucose regulation BI3.10 Disorders of carbohydrate metabolism</p> <p>Chemistry and metabolism of Lipids-I</p> <p>BI4.1 Classification of lipids BI4.2 Digestion and absorption of lipids BI4.3 Lipoprotein metabolism</p> <p>SDL: Interpretation of blood glucose levels and disorders related to it Interpretation of lipid profile</p> <p>Practical / DOAP: 1) Capillary blood glucose estimation 2) Estimation of total cholesterol-Demonstration 3) Estimation of Triglycerides-Demonstration 4) Estimation of HDL–Demonstration</p> <p>VERTICAL INTERGRATION Diabetes mellitus – Department of General medicine Blood glucose regulation – Department of General medicine</p>



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		Gait / Arches of foot – Department of Physical medicine EARLY CLINICAL EXPOSURE Clinical examination of Joints of lower limb – Department of Orthopaedics	3) Absolute eosinophil count VERTICAL INTERGRATION Neuro-muscular blocking agents & of Myasthenia gravis – Department of Pharmacology, Anesthesia Muscular dystrophy: myopathies – Department of General Medicine EARLY CLINICAL EXPOSURE Myasthenia Gravis & EMG – Department of general medicine	EARLY CLINICAL EXPOSURE Sample collection - Central Service Laboratory Dyslipidemia- Department of Biochemistry
Internal Assessment - 2 (Theory & Practicals)				
Block - III	December January February	THORAX AN 21.1 – 21.11 Thoracic cage (Lecture, DOAP, SGD, Practicals) AN 22.1 – 22.7 Heart & Pericardium (Lecture, DOAP, SGD, Practicals) AN 23.1 – 23.7 Mediastinum (Lecture, DOAP, SGD, Practicals) AN 24.1 – 24.6 Lungs & Trachea (Lecture, DOAP, SGD, Practicals) AN 25.1 – 25.9 Thorax (Lecture, practicals, DOAP) AN 26.1 – 26.7 HEAD AND NECK Skull osteology (Lecture, DOAP) AN 27.1 – 27.2 Scalp (Lecture, practicals) AN 28.1 – 28.10 Face & Parotid region (Lecture, DOAP, SGD, Practicals) AN 29.1 – 29.4 Posterior triangle of neck (Lecture, DOAP, SGD, Practicals) AN 30.1 – 30.5 Cranial cavity (Lecture, DOAP, SGD, Practicals) AN 31.1 – 31.5 Orbit (Lecture, DOAP, SGD, Practicals)	Lecture: Cardiovascular system PY5.1 Functional anatomy of heart, Pacemaker tissue and conducting system PY5.2 Properties of cardiac muscle PY5.3 Cardiac cycle PY5.4 Generation, conduction of cardiac impulse PY5.5 Electrocardiogram PY5.6 Abnormal ECG, arrhythmias, heart block and myocardial infarction PY5.7 Haemodynamics of circulatory system PY5.8 Cardiovascular regulatory mechanisms PY5.9 factors affecting heart rate, regulation of cardiac output PY5.9 Blood pressure	Lecture: Chemistry and metabolism of Lipids-II BI4.4 Atherosclerosis BI4.5 Prostaglandins and eicosanoids BI4.6 Lipid metabolism associated disorders Chemistry and metabolism of proteins BI5.1 Structure of proteins BI5.2 Digestion and absorption of protein BI5.3 Protein metabolism associated disorders BI5.4 Hemoglobin BI5.5 Hemoglobinopathies



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		AN 32.1 – 32.2 Anterior Triangle (Lecture, DOAP, SGD, Practicals) AN 33.1 – 33.5 Temporal and Infratemporal regions (Lecture, DOAP, SGD, Practicals) AN 34.1 – 34.2 Submandibular region (Lecture, DOAP, SGD, Practicals) AN 35.1 – 35.10 Deep structures in the neck (Lecture, DOAP, SGD, Practicals) AN 36.1-36.5 Mouth, Pharynx & Palate (Lecture) AN 37.1 – 37.3 Cavity of Nose (Lecture, DOAP, SGD, Practicals) AN 38.1 – 38.3 Larynx (Lecture, DOAP, SGD, Practicals) AN 39.1 – 39.2 Tongue (Lecture, DOAP, SGD, Practicals) AN 40.1 – 40.5 Organs of hearing and Equilibrium (Lecture, DOAP, SGD, Practicals) AN 41.1 – 41.3 Eyeball (Lecture, DOAP, SGD, Practicals) AN 42.1 – 42.3 Back Region (Lecture, DOAP, SGD, Practicals) AN 43.1 – 43.9 Head & Neck Joints, Histology, Development, Radiography & Surface marking (Lecture, DOAP, SGD, Practicals) OSTEOLGY - SDL, Corresponding Histology & Embryology (Lecture & SGD) VERTICAL INTERGRATION Coronary circulation – Department of General Medicine Larynx – Department of ENT Orbit – Department of Ophthalmology	PY5.10 Regional circulations PY5.11 Patho-physiology of shock, syncope and heart failure Respiratory System PY6.1 Functional anatomy of respiratory tract PY6.2 mechanics of normal respiration, lung volume and capacities, ventilation, V/P ratio, diffusion capacity of lungs PY6.3 transport of respiratory gases: Oxygen and Carbon dioxide Regulation of respiration PY6.4 Physiology of high altitude and deep sea PY6.5 artificial respiration, oxygen therapy, acclimatization and decompression sickness PY6.6 Dyspnoea, hypoxia, cyanosis asphyxia; drowning, periodic breathing PY6.7 lung function tests & their clinical significance Endocrine System PY8.6 Introduction to endocrines & Second messengers - mechanism of action of steroid, protein and amine hormones PY8.1 Physiology of bone and calcium metabolism PY8.2 Pituitary gland, thyroid gland, parathyroid gland, adrenal gland, pancreas and hypothalamus PY8.3 Physiology of Thymus & Pineal Gland PY8.4 Thyroid & Pancreatic function tests PY8.5 Metabolic and endocrine consequences of obesity & metabolic syndrome, Stress response	Metabolism and Homeostasis-I BI6.1 Metabolism in fasting and fed states BI6.2 Nucleotide metabolism BI6.3 Nucleotide metabolism associated disorders BI6.4 Biochemical role of vitamins BI6.5 Vitamin deficiency disorders BI6.6 Electron transport chain SDL: Interpretation of analytes related to disorders of lipid metabolism Interpretation of analytes related to disorders of Protein metabolism Sickle cell anemia Thalassemia Hyperuricemia Vitamin A deficiency Practical / DOAP: 1. Electrophoresis-Demonstration 2. Colour reactions of proteins-Demonstration 3. Estimation of Total protein-DOAP



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		Mandibular nerve – Department of Dentistry EARLY CLINICAL EXPOSURE Neck Swellings – Department of General Surgery	SDL: Properties of cardiac muscle Cardiac cycle Cardiac Output Blood Pressure Mechanics of respiration Transport of gases Regulation of respiration Pituitary Gland Thyroid Gland Adrenal Gland Glucose & Calcium metabolism Practical / DOAP: 1) PY5.13 Recording ECG 2) PY5.12 Examination of Pulse 3) PY5.12 Record blood pressure 4) PY5.12 Effect of postures on blood pressure 5) PY3.15 Demonstrate effect of mild, moderate and severe exercise on blood pressure 6) PY5.14 cardiovascular autonomic function tests 7) PY11.13 Obtain history and perform general examination 8) PY5.15 Clinical Examination of Cardiovascular system 9) PY5.16 Record Arterial pulse tracing using finger plethysmography 10) PY3.16 Harvard Step test VERTICAL INTERGRATION Myocardial Infarction, Arrhythmia & ECG - Department of General medicine	4. Estimation of urea-DOAP 5. Estimation of creatinine-DOAP 6. Chromatography Demonstration 7. Normal urine analysis 8. Abnormal urine analysis-DOAP VERTICAL INTERGRATION Atherosclerosis- Department of General medicine Hyperammonemia- Department of General medicine Hemoglobinopathies- Department of Pediatrics Gout- Department of General medicine Vitamin deficiency disorders- Department of Pediatrics EARLY CLINICAL EXPOSURE Nephrotic syndrome - Department of General Paediatrics Gout - Department of General Medicine



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			Lung Disorders, PFT & Interpretations – Department of Respiratory Medicine Thyroid Disorders – Department of Medicine EARLY CLINICAL EXPOSURE Basic Life support (BLS) – Department of Cardiology Hypertension – Department of General medicine Spirometry & Interpretation – Department of respiratory medicine	
Internal Assessment - 3 (Theory & Practicals)				
Block - IV	March	NEURO ANATOMY AN 56.1 – 56.2 Meninges & CSF (Lecture, DOAP, SGD, Practicals) AN 57.1 – 57.5 Spinal Cord (Lecture, DOAP, SGD, Practicals) AN 58.1 – 58.4 Medulla Oblongata (Lecture, DOAP, SGD, Practicals) AN 59.1 – 59.3 Pons (Lecture, DOAP, SGD, Practicals) AN 60.1 - 60.3 Cerebellum (Lecture, DOAP, SGD, Practicals) AN 61.1 – 61.3 Midbrain (Lecture, DOAP, SGD, Practicals) AN 62.1 – 62.6 Cranial nerve nuclei & Cerebral hemispheres (Lecture, DOAP, SGD, Practicals) AN 63.1 – 63.2 Ventricular System (Lecture, DOAP, SGD, Practicals) AN 64.1 – 64.3 Histology and embryology (Lecture, practicals) GENETICS AN 73.1 – 73.3 Chromosomes (Lecture) AN 74.1 – 74.4 Patterns of Inheritance (Lecture)	Lecture: Special Senses PY10.13 Describe and discuss perception of smell and taste sensation PY10.14 Patho-physiology of altered smell and taste sensation PY10.15 functional anatomy of ear and auditory PY10.16 Pathophysiology of deafness. Describe deafness. PY10.17 Eye PY10.18 Visual pathway and lesions PY10.19 Auditory & visual evoke potentials Central Nervous System - I PY10.1 Describe and discuss the organization of nervous system PY10.10 ANS, Neurotransmitters & chemical transmission in the nervous system. PY10.2 functions and properties of synapse, reflex & receptors	Lecture: Metabolism and Homeostasis - II BI6.7 Water and electrolyte balance BI6.8 Acid base balance and disorders BI6.9 Mineral metabolism BI6.10 Mineral metabolism associated disorders BI6.11 Heme metabolism BI6.12 Liver function tests BI6.13 Renal function tests BI6.14 Thyroid function tests BI6.15 Adrenal function tests SDL: Interpretation of iron panel



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		AN 75.1 – 75.5 Principle of Genetics, Chromosomal Aberrations & Clinical Genetics (Lecture) VERTICAL INTERGRATION Spinal cord and Lumbar puncture – Department of Anesthesia EARLY CLINICAL EXPOSURE CT and MRI of Brain – Department of Radiology	PY10.3 Somatic sensations & sensory tracts PY10.4 Motor tracts, Muscle tone, Vestibular apparatus, Postural reflexes SDL: Mechanism of hearing Vision and applied aspects Physiology of pain and dorsal column pathway Pyramidal pathway. Practical / DOAP: 1) PY6.8 PY6.10 Spirometry & PEFR 2) PY6.9 Clinical examination of the respiratory system 3) PY10.20, PY10.11: (i) Testing for smell (cranial nerve 1) (ii) Testing of visual acuity, colour and field of vision (Cranial nerves 2) (iii) Hearing tests (cranial nerve 8) (iv) Taste sensation (cranial nerve 7 & 9) VERTICAL INTERGRATION visual pathway and lesions – Department of Ophthalmology EARLY CLINICAL EXPOSURE Deafness & Audiometry – Department of ENT	Interpretation of Liver function tests Calculation of creatinine clearance and AG ratio Practical / DOAP: 1) Estimation of Ca and P- Demonstration 2) Estimation of ALP-Demonstration 3) Estimation of bilirubin-Demonstration 4) Estimation of albumin –Demonstration 5) Preparation of buffers and PH estimation- demonstration VERTICAL INTERGRATION Waterand electrolyte balance - Department of General Medicine Acid base disorders - Department of General medicine Mineral metabolism associated disorders - Department of General Medicine Liver function tests - Department of General Medicine, Pathology Renal function tests - Department of General Medicine, Pathology Thyroid function tests - Department of General Medicine Adrenal function tests - Department of General Medicine EARLY CLINICAL EXPOSURE Chronic renal failure, Dialysis - Department of General Medicine
Internal Assessment - 4 (Theory & Practicals)				



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Phase – I: MBBS Time table (2019-2020)

Block	Month	Anatomy	Physiology	Biochemistry
Block - V	April May June	<p>ABDOMEN AN 44.1- 44.7 Anterior abdominal wall (Lecture, DOAP, SGD, Practicals) AN 45.1- 45.3 Posterior abdominal wall (Lecture, DOAP, SGD, Practicals) AN 46.1- 46.5 Male external genitalia (Lecture, DOAP, SGD, Practicals) AN 47.1 – 47.14 Abdominal cavity (Lecture, DOAP, SGD, Practicals) AN 50.1 – 50.4 Vertebral column (Lecture, DOAP, SGD, Practicals)</p> <p>OSTEOLOGY - SDL, Corresponding Histology & Embryology (Lecture & SGD)</p> <p>VERTICAL INTERGRATION</p> <p>Liver, Kidney and appendix – Department of General Surgery</p> <p>EARLY CLINICAL EXPOSURE Endoscopic view of GIT – Department of General Surgery</p>	<p>Lecture: Central Nervous System – II</p> <p>PY10.6 Spinal cord, its functions, lesion & sensory disturbances</p> <p>PY10.7 Cerebral cortex, basal ganglia, thalamus, hypothalamus, cerebellum and limbic system</p> <p>PY10.5 Structure and functions of reticular activating system</p> <p>PY10.8 PY10.12 Sleep and EEG</p> <p>PY10.9 Physiological basis of memory, learning and speech</p> <p>Gastrointestinal system</p> <p>PY4.1 Describe the structure and functions of digestive system</p> <p>PY4.2 Saliva, gastric, pancreatic, intestinal juices and bile Secretion</p> <p>PY4.7 Structure and functions of liver and gall bladder</p> <p>PY4.8 GFT, PFT, LFT</p> <p>PY4.3 GIT movements, Defecation reflex. Dietary Fibre</p> <p>PY4.4 Physiology of digestion and absorption of nutrients</p> <p>PY4.5 GIT hormones</p> <p>PY4.6 Gut-Brain Axis</p> <p>PY4.9 GI disorders</p> <p>Renal System</p> <p>PY7.1 Describe structure and function of kidney</p> <p>PY7.2 JGA & Renin – Angiotensin system</p> <p>PY7.3 Mechanism of urine formation</p> <p>PY7.4 PY7.8 Renal Clearance & RFT</p> <p>PY7.5 Fluid and electrolytes & acid-base balance</p> <p>PY7.6 PY7.9 Micturition and its abnormalities</p> <p>PY7.7 Dialysis & Artificial kidney</p>	<p>Lecture:</p> <p>BI7.1 Structure and functions of DNA and RNA</p> <p>BI7.2 DNA replication and repair, Transcription, translation</p> <p>BI7.3 Gene expression</p> <p>BI7.4 Molecular biology techniques</p> <p>BI7.5 Xenobiotics</p> <p>BI7.6 Oxidative stress and antioxidants</p> <p>BI8.1 Dietary fibre</p> <p>BI8.2 Protein energy malnutrition</p> <p>BI8.3 Dietary advice in Diabetes, CAD and in pregnancy</p> <p>BI8.4 Obesity-causes and health risks</p> <p>BI8.5 Nutritional importance of fruits and vegetables</p> <p>BI9.1 Extracellular matrix</p> <p>BI9.2 Protein targeting</p> <p>SDL: Cell cycle Recombinant DNA technology Gene therapy Mutation Calorific value of common Indian foods Glycemic index</p> <p>Practical / DOAP: 1. Lab equipment and applications 2. Spectrophotometry-Demonstration</p>



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Block	Month	Anatomy	Physiology	Biochemistry
			<p>SDL: Basal Ganglia Cerebellum Sleep, EEG & Higher functions Salivary & Gastric Secretion</p> <p>Pancreatic secretion, Bile</p> <p>GIT movements</p> <p>Digestion & absorption of foods</p> <p>Mechanism of Urine formation</p> <p>Micturition, Cytometrogram, Dialysis, Diuretics</p> <p>Practical / DOAP:</p> <ol style="list-style-type: none"> 1) PY10.11 Cranial nerves (Remaining) 2) PY10.11 Sensory system examination 3) PY10.11 Motor system examination 4) PY10.11 Reflex examination 5) Cerebellar Function tests 6) PY4.10 Examination of abdomen <p>VERTICAL INTERGRATION Sleep & EEG – Department of Psychiatry GI Disorders & Endoscopy – Department of Gastroenterology</p>	<p>3. Waste disposal methods</p> <p>VERTICAL INTERGRATION Oxidative stress in Diabetes and atherosclerosis - Department of General medicine, Department of Pathology PCR in genetic diagnosis- Department of General medicine Approach to a child with malnutrition - Department of Pediatrics Parenteral nutrition in critically ill patient- Department of General medicine</p> <p>EARLY CLINICAL EXPOSURE Hepatocellular Jaundice - Department of General Medicine Metabolic acidosis - Department of General Medicine Protein energy malnutrition- Department of Paediatrics</p>



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Block	Month	Anatomy	Physiology	Biochemistry
			EARLY CLINICAL EXPOSURE Parkinsonism & Movement disorders – Department of Neurology Renal failure & Dialysis – Department of Nephrology	
Internal Assessment - 5 (Theory & Practicals)				
Block - VI	June	PELVIS & PERINEUM AN 48.1 – 48.8 Pelvic wall and viscera (Lecture, DOAP, SGD, Practicals) AN 51.1 – 51.2 Sectional Anatomy (Lecture, DOAP, SGD, Practicals) AN 52.1–52.8 Histology & Embryology (Lecture, practicals) AN 53.1 – 53.4 Osteology (Lecture, DOAP) AN 54.1 – 54.3 Radiodiagnosis (Lecture, DOAP) AN 55.1 – 55.2 Surface marking (Lecture, DOAP, SGD, Practicals) AN 49.1 – 49.5 Perineum (Lecture, DOAP, SGD, Practicals) OSTEOLGY - SDL VERTICAL INTERGRATION Uterus and appendages – Department of OBG	Lecture: Reproductive System PY9.1 Sex determination; sex differentiation PY9.3 PY9.9 Male reproductive system PY9.2 Puberty PY9.4 Female reproductive system PY9.5 physiological effects of sex hormones PY9.6 Contraceptive methods PY9.7 Effects of removal of gonads on physiological functions PY9.8 PY9.10 Physiology of pregnancy, pregnancy tests, parturition & lactation PY9.11 PY9.12 Perimenopause and menopause, infertility and role of IVF SDL: Menstrual cycle Contraception Pregnancy, Parturition & Lactation	Lecture: BI10.1 Oncogenesis and apoptosis BI10.2 Tumor markers BI10.3 Cell mediated immunity BI10.4 Humoral immunity BI10.5 Antigenes and vaccines Practical / DOAP: 1. CSF analysis and composition 2. Urine ketone estimation with dipstick-Demonstration VERTICAL INTERGRATION Classification of vaccines and cold storage - Department of Microbiology, Department of Community medicine Metabolic response to injury - Department of General surgery Tumor markers and cancer therapy- Department of General medicine



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Phase – I: MBBS Time table (2019-2020)

Block	Month	Anatomy	Physiology	Biochemistry
		EARLY CLINICAL EXPOSURE Ultra sonogram of pelvis and foetus – Department of OBG	Practical / DOAP: PY4.10 Examination of abdomen VERTICAL INTERGRATION Contraceptive Methods – Department of Community medicine & OBG EARLY CLINICAL EXPOSURE Infertility & IVF – Department of OBG	EARLY CLINICAL EXPOSURE Cervical cancer - Department of OBG
Internal Assessment - 6 (Theory & Practicals)				



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Phase – I: MBBS Time table (2019-2020) - Community Medicine

Block	Month	Topics
Block - I	September October	Introduction to the department and objectives
		CM1.1 History of public health Changing concepts of health
		CM17.3 Principles of primary health care
		CM17.5 Health care delivery system
Block - II	November	CM1.9 Health communication
		CM1.10 Hospital sociology, doctor patient relationship
		CM2.1, CM2.2 Social and cultural factors influencing health
Block - III	December January	CM9.1 Urbanization and its impact on health Demographic trends, cycle
		CM9.2 Fertility and factors influencing it
Block - IV	March	CM17.1 Beyond hospital- reaching the community
		Reflection and Presentation of community visit
		CM4.1 Health education methods with advantages and disadvantages
Block - V	April May	CM5.1 Introduction to nutrition
		CM5.2 Nutrition assessment
Block - VI	June	CM9.9 Family welfare and population control
		Feedback, assessment



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Phase – I: MBBS Time table (2019-2020) - AETCOM

Block	Month	Topics
Block - I	September October	Module 1.5 Cadaver as our first teacher (4 hours)
		Module 1.3 Doctor patient relationship (7 hours)
Block - II	November	Module 1.1 What does it mean to be a doctor (3 hours)
		Module 1.4 The foundations of communication I (7 hours)
Block - III	December January February	Module 1.2 What does it mean to be patient? (3 hours)
		Module 1.1 What does it mean to be a doctor? (3hours)
Block - IV	March	Module 1.2 What does it mean to be patient? (3 hours)
Block - V	April May June	Module 1.1 What does it mean to be a doctor? (2 hours)
Block - VI	June	Module 1.2 What does it mean to be patient? (2 hours)