

MBBS PHASE I OVERVIEW

BLOCK		SYSTEMS	DURATION
Block I	ANATOMY	<p style="text-align: center;">GENERAL anatomy</p> <p>GROSSANATOMY and concerned OSTEOLOGY of upperlimb, Backregion, lowerlimb, Thorax till heart</p> <p>HISTOLOGY of epithelium,connective tissue,cartilage ,blood vessels,bone ,muscular tissue ,nervous tissue ,lymphatic tissue ,integumentary system ,respiratory system</p> <p style="text-align: center;">GENERAL EMBRYOLOGY,DEVELOPMENT OF CARDIO VASCULAR SYSTEM</p> <p style="text-align: center;">RADIOLOGY of upper limb and lower limb,</p> <p style="text-align: center;">SURFACE MARKING of upper limb and lower limb</p>	1st week to 12th week
	PHYSIOLOGY	<p>GENERAL PHYSIOLOGY - Cell, Homeostasis, Cell Junctions, Transport across cell membrane</p> <p>BLOOD & BODY FLUIDS - Plasma proteins, RBC, Hemoglobin, Anemia, WBC, Immunity, Platelets, Hemostasis, Blood Coagulation, Bleeding disorders,Blood Groups, Blood transfusion, Lymph</p> <p>NERVE MUSCLE PHYSIOLOGY - Neuron, Neuroglia, Resting Membrane Potential, Action Potential, Classification of muscles, Skeletal muscle & properties, Smooth muscle & properties, Neuromuscular junction, Changes during muscle contraction</p> <p>RESPIRATORY SYSTEM - Mechanics of respiration, Pulmonary circulation, Ventilation, Exchange & Transport of respiratory gases, Regulation & Disturbances of respiration, High altitude & Deep sea Physiology, Pulmonary function tests, Artificial respiration, Effect of</p>	

		exercise on respiration	
	BIOCHEMISTRY	<p>Cell and subcellular structures, Extracellular matrix,</p> <p>Enzymes- classification, mechanism of action, inhibition, regulation.</p> <p>Chemistry of carbohydrates and metabolism of carbohydrate</p> <p>Chemistry of proteins, Types of haemoglobin and pathological relevance.</p> <p>Vitamins-Fat soluble and water soluble</p>	
	Community medicine	<p>CONCEPT OF HEALTH AND DISEASE- concept of public health, concept of holistic health, determinants of health, agent ,host and environmental factors in health and disease, multifactorial aetiology of diseases, natural history of disease, intervention at various levels of prevention, concepts and principles of health promotion and education, health indicators, demographic profile and its impact on health.</p> <p>HEALTH EDUCATION AND COMMUNICATION –Various methods with their advantages and limitations, organisation of education and counselling activities and its evaluation.</p>	
1 st Internal assessment	13th week		
Block II	ANATOMY	GROSS ANATOMY and concerned OSTEOLOGY of Mediastinum ,Head	

		<p>and neck regions,NERVOUS SYSTEM(BRAIN AND SPINALCORD), ABDOMEN</p> <p>HISTOLOGY of endocrines system,sensory system,NERVOUS SYSTEM (BRAIN AND SPINAL CORD, GIT, ,Genitourinary system</p> <p>Embryology of Pharyngeal apparatus ,DEVELOPMENT OF FACE ,NERVOUS SYSTEM ,GIT, Genitourinary system</p> <p>RADIOLOGY of Thorax , Head and neck region</p> <p>SURFACE MARKING of Thorax , Head and neck region</p>	<p>14TH week to 25th week</p>
	<p>PHYSIOLOGY</p> <p>CARDIOVASCULAR SYSTEM - Properties of cardiac muscle, Conducting system of heart, Cardiac cycle, ECG, Heart rate & Arrhythmias, Cardiac output, Blood pressure, Coronary circulation, Capillary circulation, Splanchnic circulation, Skeletal muscle circulation, Fetal circulation, Hemorrhage, Circulatory shock & heart failure, Cardiovascular adjustments during exercise</p> <p>ENDOCRINOLOGY - Hormones, Anterior pituitary, Posterior pituitary, Thyroid gland, Parathyroid gland, Calcium homeostasis, Endocrine pancreas, Diabetes Mellitus, Adrenal cortex, Adrenal medulla, Local hormones, Stress & hormones, Thymus & Pineal gland</p> <p>CENTRAL NERVOUS SYSTEM - Classification & properties of nerve fibers, Degeneration & Regeneration of nerve fibers, Receptors, Synapse, Reflexes, Spinal cord, Somatosensory & Somatomotor system, Physiology of Pain, Cerebellum, Basal Ganglia, Thalamus, Hypothalamus, Limbic system, Internal capsule, Limbic system, Reticular formation, Cerebral cortex, Proprioception, Tone, Posture, Equilibrium, EEG, Sleep, Learning, Memory, Speech, Cerebrospinal Fluid, Autonomic nervous system</p>		
	<p>BIOCHEMISTRY</p> <p>Biological oxidation</p> <p>Protein and amino acid metabolism</p>		

		<p>Lipid chemistry and amino acid metabolism</p> <p>Nucleotide chemistry and metabolism</p> <p>Minerals, Acid base balance</p> <p>Plasma proteins & immunoglobulins</p>	
	Community medicine	<p>NUTRITION –Sources of nutrients, nutritional requirements, nutritional assessments, common nutrition related health problems, planning suitable diet, nutritional surveillance, education and rehabilitation , national nutrition policy, ICDS, food hygiene, food fortification, additives and adulteration .</p> <p>DEMOGRAPHY AND VITAL STATISTICS-principals of demography, demographic cycle, vital statistics and its sources , demographic indices, declining sex ratio and social and health implications ,population explosion , population dynamics of India, national population policy</p> <p>Social science and health: socio cultural factors ,family –types, its role in health and disease, social psychology ,community behaviour ,poverty and social security measures and its relationship to health and disease.</p> <p>ENVIRONMENTAL HEALTH PROBLEMS- health hazards of air, water, noise , radiation and pollution. water purification, conservation, water borne diseases, solid waste, human excreta and sewage disposal, standards of housing and the effects of housing on health, life cycle of vectors of public health importance, and their control measures ,insecticides and rodenticides.</p> <p>INTERNAL ASSESSMENT</p>	

2nd Internal assessment	26th week		
Block III	ANATOMY	<p style="text-align: center;">GROSS ANATOMY and concerned OSTEOLOGY of ABDOMEN & PELVIC REGION</p> <p style="text-align: center;">HISTOLOGY of REPRODUCTIVE SYSTEM & Revision of General slides</p> <p style="text-align: center;">GENETICS –CHROMOSOMES & ITS ABERRATIONS ,HEREDITARY DISORDERS ,GENETIC COUNSELLING</p> <p style="text-align: center;">Embryology of URINARY & REPRODUCTIVE SYSTEM, Skeletal system, Sensory system</p> <p style="text-align: center;">RADIOLOGY of ABDOMEN & PELVIC REGION</p> <p style="text-align: center;">SURFACE MARKING of ABDOMEN & PELVIC REGION</p>	27th week to 34th week
	PHYSIOLOGY	<p>SPECIAL SENSES - Structure of eyeball, Aqueous humor, Optics of eyeball, Errors of refraction, Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Functional anatomy of ear, Functions of external middle & inner ear, Auditory pathway, Auditory defects & tests for hearing, Physiology of smell, Physiology of taste sensation</p> <p>DIGESTIVE SYSTEM (GIT) - Salivary glands & Saliva, Stomach & Gastric juice, Liver & Gall bladder, Pancreas & pancreatic juice, Small intestine & Succus entericus, Absorption in small intestine & large intestine, movements of GI tract, GI hormones</p>	

		<p>RENAL PHYSIOLOGY AND SKIN - Kidney, Nephron, JG apparatus, Renal circulation, Urine formation, Concentration of urine, Acidification of urine, Micturition, Diuretics, Renal function tests, Renal failure, Dialysis & artificial kidney</p> <p>REPRODUCTIVE PHYSIOLOGY - Sex determination, Sex differentiation, Functional organization of male reproductive system, Functions of testes, Semen, Functional organization of female reproductive system, Functions of ovary, Menstrual cycle, Ovulation, Puberty & menopause, Pregnancy & tests for pregnancy, Parturition, Lactation, Infertility, Contraception</p>	
	BIOCHEMISTRY	<p>Integration of metabolism</p> <p>Molecular Biology</p> <p>Molecular biology techniques</p> <p>Organ Function tests</p> <p>Water & Electrolyte balance</p> <p>Free radicals & antioxidants, Detoxification of xenobiotics</p> <p>Nutrition, Biochemistry of cancer</p>	
	Community medicine	nil	
3 rd Internal assessment/ Preparatory exam	Week 35 th & Week 36 th		
	REVISION 37 TH TO 41 TH WEEK		
University Exam			

TEACHING HOURS for PHASE 1 MBBS

Department	Lecture hrs	SGD/DOAP hrs	SDL hrs	Total hrs
ANATOMY	222	440	40	702
PHYSIOLOGY	170	302	28	500
BIOCHEMISTRY	90	158	24	272
Community medicine	29	15	5	49
AETCOM	<ul style="list-style-type: none"> • Module 1.1& 1.5 12 hrs(Anatomy) • Module 1.4- 7 hr (biochem) • Module 1.2 8hrs Module 1.3 7hrs (Physiology) <p>Total 34 hrs</p>			
ECE	36 hrs (Anatomy)	36 hrs (Physiology)	32 hrs	104
PD & Ethics / Sport, EC & Yoga	60 HRS			60 hrs

