



Dr. Sukumar J. Magdum Foundation, Jaysingpur
**LATE MRS. HOUSABAI HOMOEOPATHIC MEDICAL
COLLEGE & HOSPITAL, NIMSHIRGAON,**

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(Approved by Ayush New Delhi, NCH New Delhi, Maharashtra State Govt. & Affiliated to MUHS Nashik)

DEPARTMENT OF PHYSIOLOGY Including **BIOCHEMISTRY**

1st B.H.M.S (2015)

SYLLABUS DISTRIBUTION

2022 - 2023

01	Dr. Arun T. Chougule	Theory	a) Body Fluids b) Cardio vascular system c) Endocrinology d) Renal Physiology & Skin e) Special Senses
		Practical	a) Hematology
02	Dr. Omkar A. Katage	Theory	a) General Physiology b) Biophysical Sciences c) Digestive System d) Reproductive system e) Nerve Muscular Physiology f) Vitamins
		Practical	a) Human Experiments
03	Dr. Prerana B. Patil	Theory	a) Respiratory System b) Biochemistry c) CNS
		Practical	a) Biochemistry


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ADVANCE TEACHING PLAN 2022 – 2023

Dr. A. T. CHOUGULE

(No. of lectures 4 per week = 16 per month)

SR. NO.	MONTH	NAME OF TOPIC	NO. OF LECTURES REQUIRED FOR EACH	DISTRIBUTION OF SUBTOPICS OF LECTURES
1.	Sept - 22	Body Fluids	36	1. Body Fluids – 1 2. Blood - 1 3. Plasma Proteins – 1 4. Red Blood Cells – 2 5. Erythropoiesis – 2 6. Hemoglobin and Iron Metabolism – 2 7. Erythrocyte Sedimentation Rate - 1 8. Packed Cell Volume and Blood Indices – 1 9. Anemia – 3 10. Hemolysis and Fragility of Red Blood Cells – 1 11. White Blood Cells - 1
2.	Oct - 22	Body Fluids	36	1. White Blood Cells – 2 2. Immunity – 3 3. Platelets – 1 4. Hemostasis – 1 5. Coagulation of Blood – 2
		Winter Vacation		
3.	Nov - 22	Body Fluids	36	1. Blood Groups – 2 2. Blood Transfusion – 1 3. Blood Volume – 1 4. Reticuloendothelial System and Tissue Macrophage – 3 5. Spleen – 2
		CVS	32	

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				6. Lymphatic System and Lymph – 1 7. Tissue Fluid and Edema – 1 8. Introduction to Cardiovascular System – 2 9. Properties of Cardiac Muscle – 3
4.	Dec - 22	CVS	32	1. Cardiac Cycle – 3 2. General Principal of circulation – 1 3. Heart Sounds – 2 4. Regulation of cardiovascular system – 2 5. Normal and abnormal Electrocardiogram (ECG) – 2 6. Cardiac Output – 3 7. Heart Rate – 3
5.	Jan - 23	CVS	32	1. Arterial Blood Pressure – 4 2. Radial Pulse – 2 3. Regional circulation – Cerebral, Splanchnic, Capillary, Cutaneous & Skeletal muscle circulation – 3 4. Cardiovascular adjustments during exercise – 1
		Endocrinology	25	5. Introduction to Endocrinology – 2 6. Hormones and hypothalamo – hypophyseal axis – 1 7. Pituitary Gland – 3
6.	Feb - 23	Endocrinology	25	1. Pituitary Gland – 2 2. Thyroid Gland - 4 3. Parathyroid Glands – 2 3. Endocrine Functions of Pancreas – 5

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				5. Adrenal Cortex – 3
7.	March - 23	Endocrinology	25	1. Adrenal Medulla – 2 2. Endocrine Functions of Other Organs – 1 3. Physiological Anatomy of Kidney, and Urinary tract – 3 4. Physiological Anatomy of Kidney, and Urinary tract – 2 5. Renal circulation – 2 6. Urine Formation – 3 7. Renal Function Tests – 2 8. Micturition – 1
		Excretory System	20	
8.	April - 23	Excretory System	20	1. Micturition – 2 2. Skin – 3 3. Glands of Skin – 2 4. Body Temperature and regulation – 2 5. Eye – 7
		Special Senses	11	
9.	May – 23	Special Senses	11	1. Ear – 4 2. Sensation of taste – 2 3. Sensation of smell – 2
		Summer Vacation		
10.	Jun - 23	Revision		16
11.	July - 22	MUHS Examination		
12.	Aug – 23	MUHS Examination		


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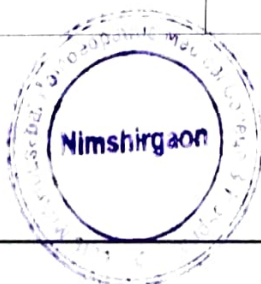
ADVANCE TEACHING PLAN 2022 – 2023

Dr. O. A. KATAGE

(No. of lectures 2&1/2 per week = 10 per month)

SR. NO.	MONTH	NAME OF TOPIC	NO. OF LECTURES REQUIRED FOR EACH	DISTRIBUTION OF SUBTOPICS OF LECTURES
1.	Sept - 22	General Physiology	06	1. Introduction to cellular physiology – 1 2. Cell Junctions - 1 3. Transport through Cell Membrane & resting membrane potential - 4 4. Body fluids compartments – 1
		Biophysical Sciences	04	5. Homeostasis, Filtration, Ultra filtration – 1 6. Adsorption, Hydrotropy, colloid, Donnam Equilibrium – 2 7. Tracer elements, Dialysis, Absorption, Assimilation, Surface tension - 1
2.	Oct - 22	Digestive System	40	1. Introduction to Digestive System – 1 2 Saliva – 4
		Winter Vacation		
3.	Nov - 22	Digestive System	40	1. Applied of saliva – 1 2. Physiological anatomy of Stomach – 4 3. Physiological anatomy of Pancreas – 5

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4.	Dec - 22	Digestive System	40	1. Physiological anatomy of Liver and gall bladder – 5 2. Physiological anatomy of small intestine, large intestine – 5
5.	Jan - 23	Digestive System	40	1. Movements of Gastrointestinal Tract – 5 2. Gastrointestinal Hormones – 1 3. Digestion & Absorption of Carbohydrates, Proteins & fats – 4
6.	Feb - 23	Digestive System	40	1. Digestion & Absorption of Carbohydrates, Proteins & fats – 2
		Reproductive system	27	2. Male Reproductive System – Testes and its hormones – 2 3. Seminal Vesicles – 1 4. Prostate Gland and Semen – 1 5. Introduction to Female Reproductive System – 3 6. Menstrual Cycle - 1
7.	March - 23	Reproductive system	27	1. Menstrual Cycle – 4 2. Ovulation – 2 3. Menopause – 2 4. Infertility – 1 5. Pregnancy and Parturition – 1
8.	April - 23	Reproductive system	27	1. Pregnancy and Parturition – 1 2. Placenta – 2 3. Pregnancy Tests – 1 4. Fertility – 1
			11	5. Mammary Glands and Lactation – 2 6. Foetal circulation – 1 7. Pubertal changes in Male and female - 2

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9.	May – 23	Nerve Muscular Physiology	8	1. Physiology properties of nerve fibres – 1 2. Neuromuscular Junction – 2 3. Physiology of Skeletal Muscle, Cardiac muscle and Smooth muscle – 1
Summer Vacation				
10.	Jun - 23	Nerve Muscular Physiology	8	1. Physiology of Skeletal Muscle, Cardiac muscle and Smooth muscle – 1 2. Electromyogram and Disorders of Skeletal Muscle – 1
		Vitamins	8	3. Vitamins – fat soluble - 4 4. Vitamins – Water soluble – 3 5. Minerals & Organ function test - 1
11.	July - 22	MUHS Examination		
12.	Aug – 23	MUHS Examination		


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ADVANCE TEACHING PLAN 2022 – 2023

DR. PRERANA B. PATIL

(No. of lectures 8 per month)

SR. NO.	MONTH	NAME OF TOPIC	NO. OF LECTURES REQUIRED FOR EACH	DISTRIBUTION OF SUBTOPICS OF LECTURES
1.	Sept - 22	Respiratory System	18	1. Physiological Anatomy of Respiratory Tract – 2 2. Mechanism of respiration – Ventilation, diffusion of gases – 4 3. Transport of Respiratory Gases - 2
2.	Oct - 22	Respiratory System	18	1. Regulation of Respiration – 4
		Winter Vacation		
3.	Nov - 22	Respiratory System	18	1. Pulmonary Function Tests – 2 2. High Altitude, Space Physiology & Deep Sea Physiology – 2. 3. Artificial Respiration – 2 4. Effects of Exercise on Respiration - 2
4.	Dec - 22	Biochemistry	24	1. Carbohydrates – chemistry – 2 2. Carbohydrates – metabolism & glycolysis – 2 3. Carbohydrates – blood glucoses regulation – 2 4. Lipids - chemistry, metabolism – 2
5.	Jan - 23	Biochemistry	24	1. Lipids - utilization of stored fat – 2 2. Lipids - synthesis of fatty

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				acids – 2 3. Proteins - chemistry, metabolism – 4
6.	Feb - 23	Biochemistry	24	1. Proteins –digestion, trasamination, amino acids – 4 2. Enzymes – 1 3. Nutrition – 3
7.	March - 23	CNS	30	1. Introduction to Nervous System – 2 2. Neuron & Neuroglia – 2 3. Receptors & Synapse – 3 4. Neurotransmitters – 1
8.	April - 23	CNS	30	1. Reflex – 1 2. Spinal Cord – 5 3. Somatosensory System and Somatomotor System – 2
9.	May – 23	CNS Summer Vacation	30	1. Cerebral cortex, Thalamus and Hypothalamus – 4
10.	Jun - 23	CNS	30	1. Physiology of Pain – 1 2. Brainstem and Vestibular apparatus – 1 3. Reticular Formation and Higher Intellectual Functions – 2 4. EEG – 1 5. Physiology of Sleep – 1 6. Cerebrospinal Fluid (CSF) – 1 7. Autonomic Nervous System (ANS) - 2
11.	July - 22	MUHS Examination		
12.	Aug – 23	MUHS Examination		

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ADVANCE TEACHING PLAN 2022 – 2023

PRACTICAL (Haematology)

SR.NO.	MONTH	TOPIC	NO OF PRACTICALS (2 Hrs./practical's)
1	September	Introduction to Practicals	2
		Introduction to Instruments	2
2	October	Study of compound microscope	2
		Winter Vacation	
3	November	Collection of Blood samples.	2
		Estimation of Haemoglobin Concentration	2
4	December	Determination of haematocrite	1
		Haemocytometry	3
5	January	Total RBC count	2
		Determination of RBC indices	2
6	February	Total Leucocytes count (TLC)	2
		Preparation & Examination of Blood smear	2
7	March	Differential Leucocyte Count (DLC)	4
8	April	Determination of Blood group	2
		Osmotic fragility of Red cells	2
9	May	Summer Vacation	
10	June	Determination of Bleeding Time & Coagulation Time	4
11	July	MUHS Exam	
12	August	MUHS Exam	


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PRACTICAL (Haematology)

SR.NO.	MONTH	TOPIC	NO OF PRACTICALS (2 Hrs./practical's)
1	September	General Examination	1
		Recoding Radial Pulse	3
2	October	Blood Pressure	2
		Winter Vacation	
3	November	Respiratory System - Clinical examination	2
		Gastrointestinal system - Clinical examination	2
4	December	Test for Proteins – Precipitation reactions	1
		Test for Proteins – Colour reactions	1
		Test for Carbohydrates – Monosachharides	2
5	January	Test for Carbohydrates – Disachharides	3
		Test for Carbohydrates – Polysachharides	1
6	February	Cardiovascular System - Clinical examination	1
		ECG	1
		Reproductive system - Diagnosis of pregnancy	1
		Respiratory System - Spirometry, Stethography.	1
7	March	Nerve & Muscle physiology - Mossos, Handgrip Dynamometer	1
		Nervous system - Clinical examination	3

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8	April	Normal Urine	1
		Abnormal Urine	3
9	May	Summer Vacation	
10	June	Special Sense - Clinical examination	3
		Demonstration of uses of instruments or equipment and Graphs	1
11	July	MUHS Exam	
12	August	MUHS Exam	


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