

SET's SAWKAR HOMOEOPATHIC MEDICAL COLLEGE, SATARA

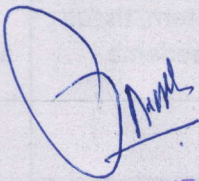
Dept. of Human Physiology & Biochemistry

Academic Teaching programme 2024-2025 (appearing in March 26) - Theory

Month	Dr. Amondikar	Dr. Tanksale	Dr. Jadhav	Dr. Kadam
Nov 24	Address and foundation course Introduction- Body fluids and immune mechanism	Address and foundation course Introduction- Nerve Muscle physiology.	Address and foundation course Biophysics- Diffusion, osmosis	Address and foundation course
Dec 24	Haematology – Red blood cells, Hb, Anaemia, jaundice, ESR, PCV	Nerve muscle physiology- Neurone and neuroglia, classification of properties neurone, degeneration and regeneration.	filtration, ultrafiltration Adsorption, Hydrotropy	Introduction to cellular Physiology – cell structure and functions
Jan 25	Haematology – WBC, immunity,	Nerve muscle physiology- NM junction, Mechanism of transmission	colloid, Donnan equilibrium Dialysis	Cell division, cell junctions
Feb 25	platelets, Coagulation, blood groups	Structure of skeletal muscle and properties	absorption, assimilation	Transport across cell membrane, body fluid compartments, homeostasis
March 25	Blood volume, Blood transfusion RE system, tissue macrophages	Structure of cardiac muscle and properties	surface tension, trace elements	Skin and integumentary system- structure and functions
April 25	Lymphatic system, tissue fluid and oedema	Structure of Smooth muscle and properties. Applied, EMG.	Tissue- Structure, Function and Types.	Skin and integumentary system- regulation of body temperature
May 25 / June 25	Cardiovascular system introduction	Central nervous system- introduction, neuron and neuroglia	Respiratory System- introduction	Endocrine system - introduction
	CVS-Structure and properties of cardiac muscle, Cardiac cycle	CNS synapses- classification, properties, transmission	Respiratory movements, Ventilation	HP axis, Pituitary gland(Ant)
July 25	Heart sounds, conducting system.	CNS – Neurotransmitters, receptors- classification, properties, Reflexes- classification, properties	transport of gases, exchange of resp gases	Post Pituitary, Thyroid Gland, Parathyroid gland.
August 25	ECG-normal and abnormal recording, Cardiac output- factors affecting, regulation	CNS – sensations, pain pathway, spinal cord- structure, functions, different tracts, section of spinal cord	Regulation of respiration,	Endocrine part of pancreas. Regulation of blood glucose. Diabetes Mellitus.

Sept 25	Heart rate , Blood pressure factors affecting and regulation.	Brain stem- structure and functions, vestibular apparatus, cerebrum, diencephalon	Disturbance in resp,	Adrenal cortex, Adrenal medulla,
Oct 25	Radial pulse, Regional circulation	CNS – cerebellum, higher intellectual functions, EEG, CSF	ANS High altitude and deep sea physiology, artificial respiration	local hormones, Endocrine functions of other organs
Nov 25	Special senses – olfaction taste, vision Special senses – vision, hearing.	Digestive system- Intro. Salivary glands, stomach- Functional Anatomy, Histology, Functions, Applied Physiology. Composition and function of digestive juices.,	Reproductive system- Male reproductive system	Enzymes, Vitamins, Diet and Nutrition.
Dec 25	Excretory System- Intro, Nephron, JG apparatus.	Pancreas, Liver, gall Bladder – Functional Anatomy, Histology, Functions, Applied Physiology.	Female Reproductive system	Biochemistry- chemistry and metabolism of proteins
Jan 26	Excretory System- Intro, Nephron, JG apparatus.	Small Intestine, Large intestine, movements of GI tract,	Pregnancy, parturition, Infertility Placenta, Pregnancy tests	Biochemistry- chemistry and metabolism of Carbohydrates.
Feb 26	RFT, Renal failure, Micturition, dialysis	GI hormones, Metabolism of Carbohydrats, fats and protiens.	Fertility control, Mammery Gland and lactation.	Biochemistry- chemistry and metabolism of Fats.

ADA
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Month	Dr. Kadam	Dr. Tanksale
Nov 24	Address and foundation course Introduction to Clinical Examination	Address and foundation course Introduction to Haematology.
Dec 24	Clinical examination general aspect, history taking	Introduction to haematological practicals Compound microscope Collection of blood sample Hb % estimation
Jan 25	Clinical general examination, examination of pulse, B.P., temperature	ESR PCV Blood indices BT and CT
Feb 25	Systemic examination Examination of muscles and joints Examination of CVS, ECG recording, OPD	Blood groups, Haemocytometry RBC count
March 25	Examination of Respiratory system, OPD	Total WBC count Differential count
April 25	Clinical exam of NS- cranial nerves Clinical exam of sensory system	Absolute eosinophil count
	Dr. Amondikar	Dr. Tanksale
May and June 25	Examination of RS- spirometry, stethography, OPD	Higher Intellectual functions Clinical exam of motor system I
July 25	Clinical examination of nervous system- introduction, history taking, OPD	Clinical exam of motor system II Posture, gait, reflexes
Aug 25	Clinical examination of nervous system – higher functions, OPD	Exam of special senses – olfaction Exam of taste
Sept 25	Uses of instruments and equipments. OPD	Examination of eye- vision Visual acuity, visual reflexes
Oct 25	Qualitative analysis of proteins - colour reactions and ppt. reactions	Reproductive system-diagnosis of pregnancy, OPD
	Dr. Amondikar	Dr. Kadam
Nov 25	Qualitative analysis of carbohydrates – mono, di and polysaccharides	Clinical examination of GIT, OPD
Dec 25	Qualitative analysis of fats. Normal constituents of urine	Clinical examination of GIT, OPD
Jan 26	Abnormal constituents of urine Urine report	clinical physiology OPD Hours
Feb 26	Quantitative estimation of glucose, total proteins, uric acid in blood	Organ function tests Interpretation and discussion of results of biochemical tests


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