



**GPMT SCHOOL of
HOMOEOPATHY**

Gulabrao Patil Homoeopathic Medical College & Hospital

DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

Academic Year 2025-2026

Academic Activities/Webinar/Workshop/CME/Activities in One Year.

Academic Planner/Advanced Teaching Plan Time Table

College Code: 4205

ANNEXURE – IV

Details from – NOVEMBER 2025 to MARCH 2027

Sr. No.	Details	Total Number in Hours
1.	Lecture	325
2.	Practical's/Clinics/OPD	330
3.	Class Seminars	15
4.	Inter Departmental Seminar	10

ABidwal
HEAD,

DEPT OF PHYSIOLOGY & BIOCHEMISTRY,
G. P. H. M. C. Miraj.

Principal

Gulabrao Patil Homoeopathic
Medical College, Miraj



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Telephone: 0233-2212147



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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

ACADEMIC YEAR 2025-2026

STAFF LIST

Sr. No.	Name of Staff	Designation	Qualification
01	Dr Mrs. Tazeen. A Bidiwale	H.O.D & Professor	M D (HOM)
02	Dr. Uday A. Phatak	Asso. Professor	M.D. (Med)
03	Dr Aasmabi Tashildar	Assistant Professor	M.D.(Hom)
04	Dr Sadaf Rafik Bagwan	Assistant Prof	M.D (HOM)
05	Mr. N V Kolekar	Lab. Technician	M.Sc. D.M.L.T

T. Bidiwale
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Department of Physiology and Biochemistry

SYLLABUS DISTRIBUTION

Academic year- 2025-2026

THEORETICAL

Dr. T.A. Bidiwale

1. Biophysics
2. Respiratory System
3. Endocrine
4. Reproductive system

1) Biophysics :-

Osmosis, Hypertonic, Hypotonic, Isotonic solution, Donnan Ionic Equilibrium. Filtration , Diffusion , Ultrafiltration , Action Potential , Surface tension , Dialysis , Acid base Balance .

2) Respiratory system:-

Anatomical and Physiological dead space, Mechanism of breathing, Lung Volume and Capacities. Carbon dioxide carriage and co2 dissociation curve. Nervous control of respiration, Chemical control of respiration, Cyanosis. Asphyxia, Caesson's Disease, Dyspnoea and Periodic breathing, Pulmonary Circulation, Artificial Respiration, Pulmonary Function Tests.

3)Endocrine:-

Physiology of Pituitary, Thyroid, Parathyroid, Pancreas , Adrenal Cortex and Medulla. Regulation of secretion of endocrine glands. Hypothyroidism, Hyperthyroidism, Thyrotoxicosis, functions of thyroid. Hyperparathyroidism, Diabetes mellitus.

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4) Reproductive system;

Introduction in general and types of reproduction. Physiology of testes and ovaries. Physiology of menstruation, Pregnancy and Lactation. Placenta and its function, foetal circulation and respiration.

Dr. Aasma Tahsildar

1. General Physiology
2. Skin and The Integumentary System
3. Central nervous system
4. Digestive system and Nutrition

1) General Physiology

Introduction to Physiological Principles. Life processes, Homoeostasis. Cell structure, Organelles, Cell Membrane, Composition and function. Transport of substances across cell membrane, Active transport of Na-K pump,

2) Skin and The Integumentary System

Skin-structure and function
Regulation of body temperature, Hypothermia.

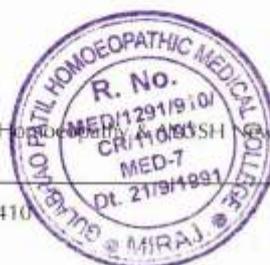
3) Central nervous system;

General Organization , Structure and Function of Nerve Cell and Neuralgia. Cerebrospinal fluid. Physiology of Synapse and Receptor Organs. Physiology of reflex action- classification properties etc. of reflexes. Sensory and motor tracts and effects of secretion, transection and hemisection of spinal cord. Spinal, decerebrate and decorticate preparation and regulations of posture and equilibrium. Reticular formation. cerebellum and basal ganglia. Sensory and motor cortex. Physiology of voluntary movements. Higher function of cortex; sleep and wakefulness, EEG, memory, speech, learning. Physiology of thalamus and hypothalamus and limbic system. Physiology of autonomic nervous system, peripheral and central mechanism.

Dr. Aasma Tahsildar
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4) Digestive system;

General introduction ,organization plan and evolutionary significance.

Composition, function and regulatin of salivary, gastric ,pancreatic, intestinal and biliary secretions. Movements of G.I. tract. Absorption of G.I. tract. Physiology of Liver and Gall bladder structure and function .

Dr Sadaf Bagwan

1. Body Fluids and Immune Mechanism
2. Cardiovascular system
3. Renal Physiology
4. Special senses.

1) Body Fluids and Immune Mechanism

Composition and functions in general.physiology of plasma proteins, normal values. ESR and other blood indices.physiology of RBC, WBC, and platelets formation, fate .functions of formed elements of blood . anemia , haemoglobin , polycythemia.body fluid compartnrts, their measurements, blood volume and its regulation.ABO and Rh blood group systems.coagulation nad haemostasis. Lymphatics and RE system.

2) Cardiovascular system;

Structure and properties of cardiac muscle. Generation and conduction of cardiac impulse, ECG.{normal}.cardiac cycle with reference to pressure , volume changes, heart sounds etc. Heart rate and its regulation. Haemodynamics, BP and its regulation.nervous and chemical control of blood vessel. Physiological basis of shock.

Sadaf Bagwan
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3) Renal Physiology

General introduction, structure and functions of kidney. Mechanism of formation of urine. Mechanism of concentration and dilution of urine. Physiology of micturation.

4) Special senses;

Physiology of taste , smell. Vision Ear- general anatomy, conduction of sound waves through external, middle and internal ear. Peripheral and central mechanism of hearing and auditory pathways. general anatomy refractory media and protective mechanism in eye. Formation, circulation and function of aqueous humor. Physiology of optics, formation of image, accommodation errors of refraction, acuity of vision. Physiology of retina, dark and light adaptation, Photochemistry of vision, Color vision. Visual pathway and effect of various levels.

By Dr. Uday Phatak

1) Nerve Muscle Physiology

2) Central Nervous System

3) Biochemistry

1) Nerve Muscle Physiology

Structure and function of nerve cell.

Bioelectric phenomena in the nerve and muscle. R.M.P. action and its propagation, neuromuscular transmission. Classification and properties of nerve fibres.

Wallerian degeneration, regeneration and reaction of degeneration.

Skeleto-muscular:- classification of muscle fibre. Properties of skeletal muscle.

2) Central Nervous System

Uday Phatak
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Uday Phatak

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Sensory and motor tracts and effects of secretion, transection and hemisection of spinal cord. Spinal, decerebrate and decorticate preparation and regulations of posture and equilibrium.

3) Biochemistry

Biochemical principles and elementary constituents of protoplasm. chemistry of proteins. Chemistry of carbohydrates. chemistry of lipids. Enzymes and vitamins. Metabolism of proteins, fats, carbohydrates, minerals.

Vitamins-water soluble and fat soluble. Hypovitaminosis.

Diet and Nutrition

PRATICALS

Dr. T.A. Bidiwale

1. Haematology

Dr. Aasma Tahsildar

1. Biochemistry

Dr. Sadaf Bagwan

1. Clinical

2. Instruments

Bidiwale

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ACADEMIC PLANNER
2025-2026
LESSON PLANNER FOR THE MONTH OF NOVEMBER-2025
FOUNDATION COURSE
1ST BHMS COURSE
Bio-physical sciences

- Filtration , Ultra-filtration, Osmosis

General Physiology

- Discuss the principles of cellular physiology.
- Classify cell junctions.

Body Fluid & Immune Mechanism

- Describe the composition and functions of blood components
- Describe the origin, Forms, Variations and functions of plasma Protein

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF DECEMBER-2025

Bio-physical sciences

- Diffusion, Adsorption, Hydrotropy, Colloid
- Donnan Equilibrium
- Tracer elements

General Physiology

- Describe the resting membrane potential.
- Categories body fluids compartments.

Body Fluid & Immune Mechanism

- Illustrate the synthesis of Hemoglobin
- Describe RBC formation (Erythropoiesis) and its regula

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF JANUARY-2026

Bio-physical sciences

- Dialysis Absorption Assimilation
- Surface tension

General Physiology

- Explain the concept of homeostasis

Body Fluid & Immune Mechanism

- Explain the role of lymphoid tissues in immune responses
- Classify different types of immunity

1st PERIODICAL

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF FEBRUARY-2026

Nerve muscle physiology

- Physiological properties of nerve fibers
- Nerve fiber- types, classification, function, degeneration and regeneration of peripheral nerves
- Neuro-Muscular junction

Skin & the integumentary system

- Skin & Integumentary System
- Layers of Skin
- Function of Skin
- Sweat
- Body temperature and its regulation

Body Fluid & Immune Mechanism

- Describe the development and regulation of immunity.
- Explain the formation and functions of platelets.
- Illustrate the physiological basis of homeostasis

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF MARCH-2026

Body Fluid & Immune Mechanism

- Describe different blood groups
- Discuss the clinical importance of blood grouping
- Describe blood transfusion

Nerve muscle physiology

- Physiology of Skeletal muscle
- Physiology of Cardiac muscle
- Physiology of Smooth muscle
- EMG

Skin & the integumentary system

- Sweat
- Body temperature and its regulation

1ST TERMINAL EXAM

Abidural

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF APRIL-2026

Respiratory system and environmental physiology

- Physiological anatomy of respiratory tract
- Mechanism of respiration: Ventilation, diffusion of gases
- Transport of respiratory gases

Cardio-vascular system

- Introduction to cardiovascular system
- Properties of cardiac muscle

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF MAY-2026

Respiratory system and environmental physiology

- Regulation of respiration Pulmonary Function
- High altitude and space physiology

Cardio-vascular system

- Cardiac cycle

Central nervous system

- Introduction to nervous system
- Neuron
- Neuroglia
- Receptors

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2025-2026

LESSON PLANNER FOR THE MONTH OF JUNE-2026

Respiratory system and environmental physiology

- Deep sea physiology
- Artificial respiration
- Effects of exercise on respiration

Cardio-Vascular System

- General principles of circulation Heart sounds
- Regulation of cardiovascular system
- Normal and abnormal Electrocardiogram (ECG)

Central Nervous System

- Synapse
- Neurotransmitters
- Reflex
- Spinal cord

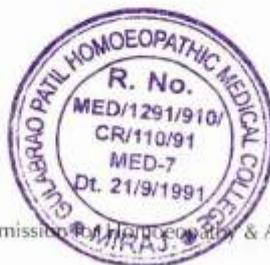
2ND PERIODICAL

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF JULY-2026

Endocrinology

- Introduction of endocrinology and importance of PNEI axis Hormones and hypothalamo- hypophyseal axis
- Pituitary gland

Cardio-vascular system

- Cardiac output
- Heart rate
- Arterial blood pressure

Central nervous system

- Somato-sensory system and somato-motor system Physiology of pain
- Brain stem, Vestibular apparatus
- Cerebral cortex
- Thalamus

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LESSON PLANNER FOR THE MONTH OF AUGUST-2026

Endocrinology

- Thyroid gland
- Parathyroid

Central nervous system

- Hypothalamus
- Internal capsule
- Basal ganglia
- Limbic system
- Cerebellum – Posture and equilibrium

Cardio-vascular system

- Radial Pulse
- Regional circulation- Cerebral, Splanchnic, Capillary, Cutaneous & skeletal muscle circulation.
- Cardiovascular adjustments during exercise

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LESSON PLANNER FOR THE MONTH OF SEPTEMBER-2026

Endocrinology

- Endocrine functions of pancreas Adrenal cortex Adrenal medulla
- Endocrine functions of other organs

Central nervous system

- Reticular formation
- Proprioceptors
- Higher intellectual function Electroencephalogram (EEG)
- Physiology of sleep
- Cerebro-spinal fluid (CSF) Autonomic Nervous System (ANS)

Renal physiology

- Physiological anatomy of kidneys and urinary tract
- Fluid & electrolyte with acid base balance need to be include

2ND TERMINAL EXAM

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF OCTOBER-2026

Renal physiology

- **Renal circulation Urine formation: Renal clearance, glomerular filtration, tubular reabsorption, selective secretion, concentration of urine, acidification of urine.**

Reproductive system

- **Male reproductive system-testis and its hormones; seminal vesicles, prostate gland, semen.**
- **Introduction to female reproductive system Menstrual cycle**

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF NOVEMBER-2026

Reproductive system

- Introduction to female reproductive system
- Menstrual cycle
- Ovulation

Renal physiology

- Renal functions tests
- Micturition

Bio-chemistry theory

- Carbohydrates

Digestive system & nutrition

- Introduction to digestive system
- Composition and functions of digestive juices
- Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine

3RD PERIODICAL

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ACADEMIC PLANNER

2025-2026

LESSON PLANNER FOR THE MONTH OF DECEMBER-2026

Reproductive system

- Menopause
- Infertility Pregnancy and parturition Placenta
- Pregnancy tests
- Mammary glands and lactation
- Fertility Foetal circulation

Digestive system & nutrition

- Introduction to digestive system
- Composition and functions of digestive juices

Bio-chemistry theory

- Lipids

Special senses

- Sensation of taste: Taste receptors, Taste pathways

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2025-2026

LESSON PLANNER FOR THE MONTH OF JANUARY-2027

Digestive system & nutrition

- Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine
- Movements of gastrointestinal tract

Special senses

- Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction
- Ear: Auditory pathway, Mechanism of hearing, Auditory defects

Bio-chemistry theory

- Proteins

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LESSON PLANNER FOR THE MONTH OF FEBRUARY-2027

Digestive system & nutrition

- Digestion and absorption of carbohydrates, proteins and lipids
- Gastrointestinal hormones

Special senses

- Sensation of smell: Olfactory receptors, olfactory, pathways Sensation of touch

Bio-chemistry theory

- Enzymes
- Vitamins
- Minerals
- Organ function tests

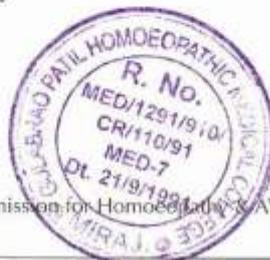
3 TERMINAL

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LESSON PLANNER FOR THE MONTH OF MARCH-2027

REVISION

Revision of Cardiovascular System

Revision of Respiratory System

Revision of Digestive System

Revision of Excretory System

Revision of Haematology

Revision of Endocrine System

Revision of Reproductive System

Revision of Central Nervous System

Revision of Skin and Body Temperature Regulation

Revision of Biophysics, R.E System.

Revision of Lymph, Spleen.

MUHS EXAM

ABidinal

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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

Academic Year 2025-26

List of Books in Department

- 1) Samson Wrights -Applied Physiology
- 2) Exercise Physiology- William Mcardle
- 3) Textbook of Medical Physiology- Prof. G.K. Pal
- 4) Textbook of Medical Physiology- Prof. G.K. Pal- part I
- 5) Textbook of Medical Physiology- Prof. G.K. Pal- part II
- 6) Anatomy & Physiology in Health & Illness- Ross & Wilson
- 7) Harpers Biochemistry- Murray
- 8) Concise Medical Biochemistry- Sucheta P. Dandekar
- 9) Human Physiology- B J Meyer
- 10) Textbook of Medical Physiology –Indu Khurana (2 copies)
- 11) Textbook of Practical Physiology – C.L.Ghai (2 copies)
- 12) Handbook of Experimental Physiology & Biochemistry- Dr P V Chadha
- 13) Medical Physiology- R.K. Maurya
- 14) Review of Medical Physiology- William Ganong
- 15) Prep Manual for Undergraduate physiology- Vijaya Joshi
- 16) Human Physiology-vol- I-Dr C C Chatterjee (2 copies)
- 17) Human Physiology-vol-II-Dr C C Chatterjee (3 copies)
- 18) A Handbook of Practical Physiology-Dr P D Ranbhise

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- 19) Human Physiology-Andrew Davies
- 20) Concise Medical Physiology- Chaudhari
- 21) Biochemistry-Pankaja Naik
- 22) Essentials of Biochemistry- Pankaja Naik
- 23) Medical Physiology-Asis Das
- 24) Textbook Of Medical Physiology- Guyton.
- 25) Concise Medical Physiology- Guyton -Hall
- 26) Principles of Anatomy & Physiology- Toratora
- 27) Grays Anatomy
- 28) Handbook of general Anatomy- B D Chaurasia.
- 29) Textbook of Biochemistry-Dr K. Rambabu
- 30) Textbook of Medical Biochemistry-M.N. Chatterjee
- 31) Fundamentals of Biochemistry-Dr.A.C.Deb
- 32) Essentials of Medical Physiology-K Sembulingam(3)
- 33) Biochemistry for clinical Medicine-Ira Thabrew
- 34) Textbook of Biochemistry-DM Vasudevan
- 35) Practical Biochemistry—Geeta Damodaran(2)
- 36) Hutchinsons Clinical Methods
- 37) Biochemistry- U.Satyanarayana

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Complimentary Copies:-

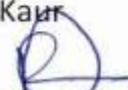
- 1) Last minute Revision Biochemistry- Saumya & Anurag Shukla
- 2) Comprehensive Textbook of Medical Physiology Vol I- G.K.Pal
- 3) Comprehensive Textbook of Medical Physiology Vol II-G.K.Pal
- 4) Ghai's Textbook of Practical Physiology-Revised & Edited by V.P.Varshney, Mona Bedi.
- 5) Physicon- Sanoop K.S, Mridul G.S, Nishanth P.S
- 6) Physiology Prep Manual for undergraduates- Vijaya Joshi, Sadhana Joshi- Mendhurwar- 5th & 6th Edition
- 7) Viva Voice in Biochemistry- S. Kavitha
- 8) Practical Physiology Book- M.Chandrashekar, Nitesh Mishra
- 9) Last Minute Revision Physiology-Saumya & Anurag Shukla
- 10) Textbook of Biochemistry- D.M.Vasudevan.
- 11) LPR Fundamentals of Medical Physiology-L. Prakasam Reddy.
- 12) Biochemistry – Pankaja Naik
- 13) Fundamentals of Medical Physiology- Harminder singh, Itika Singh, Mridul Yadav.
- 14) Essentials of Biochemistry- 3rd edition- Pankaja Naik
- 15) Ghai's Textbook of Practical Physiology- V.P.Varshey Mona Bedi
- 16) Practical Physiology- A Students workbook – V.P.Varshey
- 17) Comprehensive Textbook medical Physiology Vol 1 G.K. Pal
- 18) Comprehensive Textbook medical Physiology Vol 2 G.K. Pal
- 19) Comprehensive Work book of practical and Applied physiology – Manjinder Kaur
- 20) Text book of Physiology - Manjinder Kaur , Sangeeta Nagpal .

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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

Academic Year 2025-26

LIST OF MODELS

WET MODELS

- 1) Optic Tract
- 2) Right & Left Lung
- 3) Saggital Section of Head-Neck & Brain.
- 4) Liver with Gall Bladder.
- 5) Tongue Thorax
- 6) Right & Left Kidney & Abdominal Aorta
- 7) Omentum.
- 8) Stomach.
- 9) Thyroid, Corticoid & Larynges
- 10) Small Intestine.
- 11) Brain & Spinal Cord.

MODELS

- 12) Ear
- 13) Heart
- 14) Eye
- 15) Kidney
- 16) Model of Heart
- 17) Food Pyramid

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Simulation Models

1. Fetal Circulation
2. Hormonal Receptor Mechanism
3. Menstrual cycle
4. Oxygen transport
5. Cardiac cycle
6. Hypothalmo Hypophyseal Portal system
7. Ascending tract physiology model
8. Thyroid Gland
9. CPR model
10. Male Reproductive System
11. Haemodialysis
12. Reflex Action
13. Working of eye
14. Renin- Angiotensin mechanism
15. Vagus nerve
16. Pulmonary Circulation
17. Electrical model of Circulation
18. Electrical model of Synaptic Transmission
19. Electrical model of Ion exchange mechanism in Nephron

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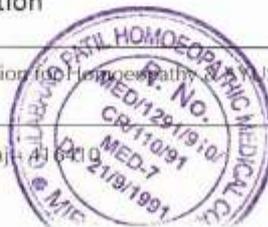


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Academic Year 2025-26

LIST OF CHARTS

Name	
SR. NO.	<u>Cell & Tissues</u>
1)	Cell
<u>Blood</u>	
1)	Blood cells (Haemopoiesis)
2)	Bone marrow
3)	Blood clotting factors and mechanism of clotting
4)	Scanning electron micrograph of blood cells
5)	Composition and functions of Blood
6)	Determination of blood groups
7)	Symptoms of anemia
<u>Cardiovascular system</u>	
1)	Aorta & its primary branches
2)	Principle veins
3)	Hepatic portal circulation
4)	Anterior view of heart
5)	Cardiac cycle
6)	Area of Auscultation of Heart
7)	Pulse points
8)	General plan of circulation





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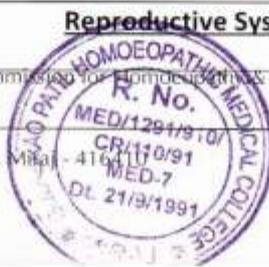
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9)	Normal ECG of single heart beat
10)	Cardiac Dysarrhythmia
<u>Respiratory system</u>	
1)	Bucket handle movements of Ribs during Respiration
2)	Portion of Lobule of Lung
3)	Structure of alveolus
4)	O ₂ - CO ₂ Transport at tissue level and lung level
<u>Digestive System</u>	
1)	Digestive enzymes
2)	Location of salivary glands
3)	Stages of Deglutition
4)	Balanced Diet (food guide pyramid)
5)	Cephalic, Gastric and Intestinal phases of Gastric Digestion
<u>Excretory System</u>	
1)	Cortical Nephron
2)	Renal circulation
3)	Countercurrent concentration of urine
4)	Summary of Functions of Nephron
5)	Nephron
<u>Endocrine System</u>	
1)	Location of Endocrine glands
2)	Anterior View of Thyroid gland
3)	Thyroid hormone abnormalities
4)	Adrenal Cortical Hormone abnormalities
<u>Reproductive System</u>	

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1)	Female Reproductive Organs
2)	Female Reproductive Cycle
3)	Developmental Changes of Ovarian Cycle
4)	Male Reproductive System
5)	Stages of Spermatogenesis
6)	Spermatogenesis and structure of sperm
<u>Nervous System</u>	
1)	Neuron
2)	Meninges & Ventricles of Brain
3)	Functional Areas of Cerebrum
4)	Autonomic nervous system
5)	Direct(Pyramidal)Pathway
6)	Neuromuscular Junction

Special Senses

- 1) Tongue
- 2) Structure of Ear
- 3) Skin
- 4) The Eye ball and layers of retina
- 5) Ishihara chart
- 6) Anterior View of Lacrimal Apparatus
- 7) Optic Pathway
- 8) Structure of taste bud
- 9) Snellen's Chart

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R.E. SYSTEM

- 1) Lymphatic System and structure of lymph node
- 2) Composition of lymph

BIOCHEMISTRY

- 1) Krebs cycle
- 2) Glycolysis
- 3) Absorptive state metabolic pathway
- 4) Post Absorptive state metabolic pathway

PIONEERS OF PHYSIOLOGY

- 1) Jan Baptista Van Helmont
- 2) Ida Henrietta Hyde
- 3) William P. Murphy
- 4) Richard Bright
- 5) Mario Capecchi

CLINICAL CHARTS

- 1) Check Your Own Eyes.
- 2) Check Your Own Tongue.
- 3) Check Your Own Nails
- 4) Check Your Own Nose.
- 5) Check Your own scalp
- 6) Check Your Own Skin

NORMAL VALUE DISPLAY CHARTS

- 1) Blood sugar level
- 2) Atmospheric Pressure

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- 3) Urine Output
- 4) Normal GFR
- 5) 1stHeart sound
- 6) RBC count
- 7) Blood Urea
- 8) Heart rate
- 9) 2ndHeart sound
- 10) Blood Pressure
- 11) WBC count
- 12) Normal Body Temperature
- 13) Salivary Secretion
- 14) Cardiac cycle time
- 15) Cardiac Output
- 16) Respiratory Rate
- 17) Tidal Volume
- 18) Platelet count

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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

ACADEMIC YEAR – 2025-26

LIST OF INSTRUMENTS

Sr. No.	Name of Article	Quantity
1	Medical Microscope with oil immersion	35
2	Equipment for ESR estimation/Westergreen pipette for ESR on stand	25
3	Haematocrit tubes	35
4	Sahli's Haemoglobinometer	52
5	Haemocytometer	50
6	Sphygmomanometer	30
7	Stethoscope	25
8	Clinical thermometer (Mercury /Digital)	25
9	Knee-Hammer	25
10	Tuning Fork	2 Sets
11	Electrocardiograph Machine	01
12	Electronic Stopwatch	04
13	Glass Distillation(double apparatus)	01
14	Centrifuge	01
15	Colorimeter(Photoelectric)	02
16	PH Meter(electric)	02
17	Colour Perception lantern(Edridge green)	01
18	Educational CD	As require
	DVD	As require
	Films	As require

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	Slides	As require
	Models	As require
	Audio Visual Aids	As require
19	Perimeter	03
20	Spirometer	01
21	Tonometer	01
22	Handgrip Dinamometer	01
23	Bicycle ergometer	01

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ACADEMIC YEAR – 2025-26

LIST OF INSTRUMENTS

Biochemistry

Sr. No.	Name of Article	Quantity
1	Monopan balance	01
2	Centrifuge	01
3	Chemical balance	01
4	Water Baths	02
5	Urinometer	25
6	Hydrometer	02
7	Albuminometer	15
8	Glucometer	20
9	Thermometer	10
10	Colorimeter	01
11	Hot air oven	01
12	Double Dist. Apparatus	01
14	Pipette	10
15	Burette	10
16	Wire gauze	10
17	Beakers	25





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18	Flasks	25
19	Burners	24
20	Rubber Tubing	Available
21	PH Meter	01
22	Stands	03
23	Clamps	04
24	Binocular Research Microscope	1
25	Ophthalmoscope	01
26	Stethoscope Demonstration with multiple pieces	02
27	Otorhinolaryngoscope	01
	Revolving stool, metal	45

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ACADEMIC YEAR – 2025-26

List Of Transparencies

SR.NO.	NAME	SR.NO.	NAME
01	Receptors-Types	11	Extrapyramidal tract
02	Receptor Potential-Action Potential – Properties	12	Difference between pyramidal & extrapyramidal tract
03	Ascending Tracts	13	Upper motor neuron & Lower motor neuron paralysis
04	Descending tracts	14	Tracts of Spinal cord
05	Tract of Goll & Burdach	15	T.S of spinal cord
06	Lat/Dorsal Spinothalamic Tract (2)	16	Neurons in Gray Horn of spinal cord
07	Ventral/Ant. Spinothalamic Tract (2)	17	Ascending tracts of spinal cord
08	Cerebellar Tracts (Flechsig's & Gower's Tract)	18	Hypothalamus
09	Difference between posterior column tract & Anterolateral spinothalamic tract	19	Clotting factors.
10	Pyramidal tract		

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