



Dr. Sukumar J. Magdum Foundation's, Jaysingpur.

**Late Mrs. Housabai Homoeopathic Medical College  
& Hospital, Nimshirgaon.**

Sangli-Kolhapur Highway, Ichalkaranji Phata, Near Dharmnagar,  
Tal-Shirol, Dist-Kolhapur.- 416 101 (Maharashtra) E-Mail : hhmc20@gmail.com

Office No. 02322-295503 Mobile No.: 9422582621, 9422421294

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

**DEPARTMENT OF HUMAN HUMAN PHYSIOLOGY & BIOCHEMISTRY.**

**SYLLABUS DISTRIBUTION**

**2023 – 2024**

01	<b>Dr. Arun T. Chougule</b>	Theory	a) Body Fluid & Immune Mechanism b) Cardio vascular system c) Endocrinology d) Renal Physiology e) Special Senses
		Practical	a) Hematology, Clinical & Biochemistry
02	<b>Dr. Omkar A. Katage</b>	Theory	a) General Physiology b) Skin & The Integumentary System c) Nerve Muscular Physiology d) Vitamins e) Reproductive system f) Digestive System
		Practical	a) Clinical, OPD
03	<b>Dr. Prerana Y. Chougule</b>	Theory	a) Bio-Physical Sciences b) Respiratory System c) CNS d) Biochemistry
		Practical	a) Hematology, Clinical & Biochemistry

  
**H. O. D.**  
Physiology Dept.

  
**Principal**  
Late Mrs. Housabai Homoeopathic  
Medical College and Hospital



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**DEPARTMENT OF HUMAN PHYSIOLOGY & BIOCHEMISTRY**

**Subject Code: Hom UG – PB**

**I B.H.M.S. (2023)**

**A/Y: 2023 - 2024**

**Advance Teaching Plan – Dr. Arun T. Chougule**

(No. of lectures 3 per week = 12 per month)


Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	November 2023	Foundation course		1
2	December 2023	Foundation course		1
			Describe the composition and functions of blood components	3
			Describe the origin, Forms, Variations and functions of plasma Protein	2
			Describe and discuss the synthesis and functions of Haemoglobin	3
3	January 2024	<b>Body fluids &amp; immune mechanism (35)</b> (Semester 1)	Describe RBC formation (erythropoiesis & its regulation) and its functions	3
			Describe different types of anemia & Jaundice	4
			Describe WBC formation (granulopoiesis) and its regulation	4
			Describe the formation of platelets, functions and variations.	1
4	February 2024	<b>Body fluids &amp; immune mechanism (35)</b>	<b>First Periodical Assessment 1<sup>st</sup> week (PA-I)</b>	<b>5 days</b>
			Describe the physiological basis of haemostasis	2
			Describe the clinical importance of blood coagulation	2
			Discuss the clinical importance of blood grouping	2
			Describe blood transfusion	1
Explain the role of lymphoid tissues in immune responses	1			

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5	March 2024	<b>Body fluids &amp; immune mechanism</b> (35)	Explain the role of lymphoid tissues in immune responses	3
		<b>Cardiovascular System</b> (20)  (Semester 2)	Define and classify different types of immunity.	2
			Describe the development of immunity and its regulation	2
			Describe the functional anatomy of heart including chambers, Sounds	2
			Describe Pacemaker tissue and conducting system.	2
			Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	1
6	April 2024	<b>Cardiovascular System</b> (20)	<b>First Term Test – 3<sup>rd</sup> week (TT-I)</b>	<b>10 days</b>
			Describe the properties of cardiac muscle including its morphology, electrical, mechanical and metabolic functions	1
			Discuss the events occurring during the cardiac cycle	2
			Discuss heart sounds	2
7	May 2024	<b>Cardiovascular System</b> (20)  <b>Summer vacation</b>	<b>Commencement of 2<sup>nd</sup> Term</b>	
			Describe the physiology of electrocardiogram (E.C.G)	2
			Discuss arrhythmia, heart block and myocardial Infarction	1
			Describe haemodynamics of circulatory system	1
8	June 2024	<b>Cardiovascular System</b> (20)	Describe the factors affecting heart rate	2
			Describe the regulation of cardiac output	2
			Understand the blood pressure regulation	2
			Describe coronary, cerebral, capillary, pulmonary & splenic circulation	1
			Describe the mechanism of shock, syncope & Hypertension	1
		<b>Endocrinology</b> (30)	Describe the mechanism of action of steroid, protein And amine hormones	2
			Describe the regulation of secretion of hormones by hypothalamus	2
9	July 2024	<b>Endocrinology</b> (30)	<b>Second Periodical Assessment 1<sup>st</sup> week (PA-II)</b>	<b>5 days</b>
			Discuss the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Pituitary gland	6
			Describe the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Thyroid gland	5
10	August 2024	<b>Endocrinology</b> (30)	Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Para Thyroid gland	4

  
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			Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Adrenal gland	4
			Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Pancreatic Gland	4
11	September 2024	<b>Endocrinology (30)</b>	Describe the physiology of Thymus & Pineal Gland	2
			Describe the Physiology of Local hormones	1
		<b>Renal Physiology (20)</b> (Semester 3)	Describe structure & functions of the kidneys.	4
			Explain the role of renin – angiotensin system	2
			Describe the mechanism of urine formation	3
12	October 2024	<b>Renal Physiology (20)</b>	<b>Second Term Test – 3<sup>rd</sup> week (TT-II)</b>	<b>10 days</b>
			Describe the process of filtration, secretion & re-absorption in kidney	2
		<b>Winter Vacation</b>	Describe the concentration and diluting mechanism in the kidney	2
			Describe the renal regulation of acid – base balance	2
13	November 2024	<b>Renal Physiology (20)</b> <b>Winter Vacation</b>	Describe the physiology of micturition	3
			Describe the Kidney function test	2
14	December 2024	<b>Special Senses (20)</b>	Describe the perception of smell sensation	4
			Describe perception of taste sensation	3
			Describe the functional anatomy of ear & auditory pathways	5
15	January 2025	<b>Special Senses (20)</b>	<b>Third Periodical Assessment 1<sup>st</sup> week (PA-III)</b>	<b>5 days</b>
			Describe the functional anatomy of eye	3
			Describe the physiology of image formation	1
			Describe the physiology of vision including colour vision	2
			Describe the refractive errors and colour blindness	2
16	February 2025		Revision	12
17	March 2025		Revision	12
18	April 2025		<b>University exam</b>	

  
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**A/Y: 2023 - 2024**

**Advance Teaching Plan – Dr. Omkar A. Katage**

(No. of lectures 2 per week = 8 per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	November 2023	Foundation course		
2	December 2023	Foundation course <b>General Physiology</b> (20) (Semester 1)	Definition & general introduction	2
			Describe and discuss the principles of homeostasis	3
3	January 2024	<b>General Physiology</b> (20)	Describe the structure & functions of cell	3
			List the organelles present in cell	1
			Enumerate the functions of organelles	2
			List the name of intracellular junction	1
			Discuss the importance of intracellular Junction	1
4	February 2024	<b>General Physiology</b> (20)	<b>First Periodical Assessment 1<sup>st</sup> week (PA-I)</b>	<b>5 days</b>
			Explain Passive transportation	2
			Explain Active Transportation	2
			Explain Vesicular Transportation	2
5	March 2024	<b>Skin &amp;The Integumentary System</b> (15)	Discuss layers of skin with their functions	4
			Relate the structure of hair with its function	2
			Relate the structure of nail with its function	2
6	April 2024	<b>Skin &amp;The Integumentary System</b> (15)	<b>First Term Test – 3<sup>rd</sup> week (TT-I)</b>	<b>10 days</b>
			Relate the structure of different glands of skin with their functions	1
			Describe the glands of skin	2
			Explain the regulation of Body temperature through skin	3


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7	May 2024	<b>Skin &amp;The Integumentary System</b> (15) <b>Nerve Muscle Physiology</b> (15) <b>Summer vacation</b>	<b>Commencement of 2<sup>nd</sup> Term</b>	
			Explain the regulation of Body temperature through skin	1
			Nerve fiber- Definition, types, classification, function, Degeneration and regeneration of peripheral nerves	2
8	June 2024	<b>Nerve Muscle Physiology</b> (15)	Nerve fiber- Definition, types, classification, function, Degeneration and regeneration of peripheral nerves	1
			Explain structure and function of neuroglia	1
			To understand the physiological properties of nerve fibers	2
			To understand the degeneration & regeneration of neuron	2
			To describe Neuromuscular Junction	2
9	July 2024	<b>Nerve Muscle Physiology</b> (15)	<b>Second Periodical Assessment 1<sup>st</sup> week (PA-II)</b>	<b>5 days</b>
			To understand the physiological properties of Skeletal Muscle	2
			To understand the physiological properties of Smooth Muscle	2
			To understand the physiological properties of Cardiac Muscle	1
10	August 2024	<b>Bio-Chemistry - Vitamins</b> (5)	Vitamins	5
			Define puberty & Discuss the role of LH & FSH in development of puberty	1
		<b>Reproductive System</b> (15)	Explain puberty for its onset, and stages. Describe the causes for delayed & precocious puberty.	1
			Describe the structure & Function of male reproductive system	1
11	September 2024	<b>Reproductive System</b> (15)	Describe the structure & Function of male reproductive system	1
			Describe the physiological effects of male sex hormone	1
			Discuss the process of spermatogenesis & factors affecting spermatogenesis	1
			Describe female reproductive system & functions of ovary and its Control.	2
			Describe menstrual cycle with hormonal, uterine and ovarian changes	3
12	October 2024	<b>Reproductive System</b> (15)	<b>Second Term Test – 3<sup>rd</sup> week (TT-II)</b>	<b>10 days</b>
			Describe the physiological effects of female sex hormones	1
			Discuss the contraceptive methods for male and female.	1
		<b>Winter Vacation</b>	Discuss the physiology of pregnancy, parturition & lactation.	2

  
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13	November 2024	<b>Winter Vacation</b> <b>Digestive System &amp; Nutrition</b> (35)	Describe the structure, Function & Innervation of Digestive system	3
			Describe the composition, mechanism of secretion, function & regulation of saliva	3
14	December 2024	<b>Digestive System &amp; Nutrition</b> (35)	Describe the composition, mechanism of secretion, function & regulation of Gastric Juice	4
			Describe the composition, mechanism of secretion, function & regulation of Pancreatic Juice	5
15	January 2025	<b>Digestive System &amp; Nutrition</b> (35)	<b>Third Periodical Assessment 1<sup>st</sup> week (PA-III)</b>	<b>5 days</b>
			Describe the structure & function of liver & Gall Bladder	3
			Describe the composition, mechanism of secretion, function & regulation of Bile	3
16	February 2025	<b>Digestive System &amp; Nutrition</b> (35)	Describe the composition, mechanism of secretion, function & regulation of Small intestine	4
			Describe the movement of gastrointestinal tract, it's regulation & function.	5
17	March 2025	<b>Digestive System &amp; Nutrition</b> (35)	Describe the movement of large intestine & defecation as a process.	2
			Describe the physiology of digestion and absorption of nutrients	3
			Revision	3
18	April 2025		<b>University exam</b>	

  
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**A/Y: 2023 - 2024**

**Advance Teaching Plan – Dr. Prerna Y. Chougule**

(No. of lectures 2 per week = 8 per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each	
1	November 2023	Foundation course		1	
2	December 2023	<b>Bio-Physical Sciences</b> (15)	Filtration & Ultra-filtration	3	
			Osmosis		
			Diffusion		2
			Adsorption & Hydrotropy		1
		Colloid, Donnan Equilibrium,	2		
3	January 2024	<b>Bio-Physical Sciences</b> (15)	Tracer elements & Dialysis	1	
			Atomic structures	2	
			Absorption & Assimilation	1	
			Acid base balance & Buffer	1	
			Surface tension	1	
			Membrane potential	2	
4	February 2024	<b>Respiratory System And Environmental Physiology</b> (25)	<b>First Periodical Assessment 1<sup>st</sup> week (PA-I)</b>	<b>5 days</b>	
			Physiological anatomy of respiratory tract	3	
			Mechanism of respiration	3	
5	March 2024	<b>Respiratory System And Environmental Physiology</b> (25)	Ventilation	3	
			Diffusion of gases	1	
			Transport of respiratory gases	3	
			Regulation of respiration	1	

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6	April 2024	<b>Respiratory System And Environmental Physiology</b> (25)	<b>First Term Test – 3<sup>rd</sup> week (TT-I)</b>	<b>10 days</b>
			Pulmonary Function Test	3
			High altitude and space physiology	1
7	May 2024	<b>Summer vacation Respiratory System And Environmental Physiology</b> (25)	Deep sea physiology	1
			Artificial respiration	1
			Effects of exercise on respiration	2
8	June 2024	<b>Respiratory System And Environmental Physiology</b> (25) <b>Central Nervous System</b> (35)	Effects of exercise on respiration	2
			Introduction to nervous system &	1
			Receptors	1
			Synapse	2
9	July 2024	<b>Central Nervous System</b> (35)	<b>Second Periodical Assessment 1<sup>st</sup> week (PA-II)</b>	<b>5 days</b>
			Neurotransmitters	1
			Reflex activity	2
			Spinal cord	3
10	August 2024	<b>Central Nervous System</b> (35)	Spinal cord	5
			Somato-sensory system and somato-motor system	2
			Physiology of pain	1
11	September 2024	<b>Central Nervous System</b> (35)	Physiology of pain	1
			Brain stem	1
			Vestibular apparatus	1
			Cerebral cortex	2
			Hypothalamus	1
			Internal capsule	1
			Thalamus	1
12	October 2024	<b>Central Nervous System</b> (35) <b>Winter vacation</b>	<b>Second Term Test – 3rd week (TT-II)</b>	<b>10 days</b>
			Basal ganglia	1
			Limbic system	1
			Cerebellum – Posture and equilibrium	2
13	November 2024	<b>Winter vacation</b> <b>Central Nervous System</b> (35)	Reticular formation	1
			Proprioceptors	1
			Higher intellectual function &	2

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14	December 2024	<b>Central Nervous System</b> (35)	Electroencephalogram (EEG)	1
			Physiology of sleep	1
			Cerebro-spinal fluid (CSF)	1
			Autonomic Nervous System (ANS)	2
			<b>Bio-Chemistry</b> (20)	Carbohydrates
15	January 2025	<b>Bio-Chemistry</b> (20)	<b>Third Periodical Assessment 1<sup>st</sup> week (PA-III)</b>	<b>5 days</b>
			Carbohydrates	3
			Lipids	3
16	February 2025	<b>Bio-Chemistry</b> (20)	Lipids	1
			Proteins	4
			Enzymes	2
			Minerals	1
17	March 2025	<b>Bio-Chemistry</b> (20)	Minerals	2
			Organ function tests	2
			Revision	4
18	April 2025		<b>University exam</b>	

  
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**A/Y: 2023 - 2024**

**Advance Teaching Plan – Dr. Arun T. Chougule / Dr. Prerana Y. Chougule**

**PRACTICAL (Haematology, Clinical, Biochemistry)**

(No. of Practical 2 hrs per week = 8 hrs per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	November 2023	Foundation course		
2	December 2023	Haematology	Study of the Compound Microscope	5
			Collection of blood sample	3
3	January 2024		Collection of blood sample	2
			Estimation of Haemoglobin concentration	5
			Determination of hematocrit	1
4	February 2024		<b>First Periodical Assessment 1<sup>st</sup> week (PA-I)</b>	<b>5 days</b>
			Determination of hematocrit	4
			Hemocytometry	2
5	March 2024		Hemocytometry	3
			Total RBC count	5
6	April 2024		<b>First Term Test – 3<sup>rd</sup> week (TT-I)</b>	<b>10 days</b>
			Total RBC count	5
			Determination of RBC indices	1
7	May 2024	<b>Summer vacation</b>	Determination of RBC indices	4
8	June 2024		Total leucocyte count	4
			Nervous System- Clinical Examination	4
9	July 2024		<b>Second Periodical Assessment 1<sup>st</sup> week (PA-II)</b>	<b>5 days</b>
			Total leucocyte count	3
			Nervous System- Clinical Examination	3
10	August 2024		Total leucocyte count	3
			Nervous System- Clinical Examination	5

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11	September 2024		Preparation and examination of blood smear	4
			Nervous System- Clinical Examination	3
12	October 2024	<b>Winter vacation</b>	<b>Second Term Test – 3rd week (TT-II)</b>	<b>10 days</b>
			Preparation and examination of blood smear	3
			Demonstration of Uses Of Instruments Or Equipment	2
			Qualitative Analysis of Carbohydrates, Proteins And Lipids	1
13	November 2024	<b>Winter vacation</b>	Preparation and examination of blood smear	3
			Qualitative Analysis of Carbohydrates, Proteins And Lipids	2
14	December 2024		Differential Leucocyte Count (DLC)	4
			Qualitative Analysis of Carbohydrates, Proteins And Lipids	4
15	January 2025		<b>Third Periodical Assessment 1<sup>st</sup> week (PA-III)</b>	<b>5 days</b>
			Differential Leucocyte Count (DLC)	3
			Qualitative Analysis of Carbohydrates, Proteins And Lipids	3
16	February 2025		Differential Leucocyte Count (DLC)	4
			Normal Characteristics of Urine	4
17	March 2025		ESR, Blood Group, BT&CT	4
			Abnormal Constituents of Urine	4
			Revision	4
18	April 2025		<b>University exam</b>	

  
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**A/Y: 2023 - 2024**

**Advance Teaching Plan – Dr. Omkar A. Katage**

**PRACTICAL (Clinical, OPD)**


(No. of Practical 2 hrs per week = 8 hrs per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	November 2023	Foundation course		
2	December 2023	Clinical Physiology	Case Taking & Approach to pt	5
			General Concept of Examination	3
3	January 2024	Clinical Physiology	General Concept of Examination	8
4	February 2024	Clinical Physiology	First Periodical Assessment 1 <sup>st</sup> week (PA-I)	5 days
			Examination of muscles, joints	6
5	March 2024	Clinical Physiology	Examination of muscles, joints	4
			Cardio-Vascular System –Radial Pulse	4
6	April 2024	Clinical Physiology	First Term Test – 3 <sup>rd</sup> week (TT-I)	10 days
			Cardio-Vascular System – Blood Pressure Recording	4
7	May 2024	Summer vacation	Cardio-Vascular System – Blood Pressure Recording & ECG	4
8	June 2024	Clinical Physiology	Cardio-Vascular System – Clinical Examination	4
			OPD	4
9	July 2024	Clinical Physiology	Second Periodical Assessment 1 <sup>st</sup> week (PA-II)	5 days
			Respiratory System- Clinical Examination	6
10	August 2024	Clinical Physiology	Respiratory System- Clinical Examination	5
			Respiratory System- Spirometry, Stethography	3

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11	September 2024	Clinical Physiology	OPD	8
12	October 2024	Winter vacation	Second Term Test – 3rd week (TT-II)	10 days
			Reproductive System- Diagnosis of Pregnancy	5
			Special Senses- Clinical Examination	2
13	November 2024	Winter vacation	Special Senses- Clinical Examination	5
14	December 2024	Clinical Physiology	Special Senses- Clinical Examination	8
15	January 2025	Clinical Physiology	Third Periodical Assessment 1 <sup>st</sup> week (PA-III)	5 days
			Gastrointestinal System- Clinical Examination	6
16	February 2025	Clinical Physiology	Gastrointestinal System- Clinical Examination	4
			OPD	4
17	March 2025		Revision	8
18	April 2025		University exam	

  
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**DEPARTMENT OF PHYSIOLOGY INCLUDING BIOCHEMISTRY.**

**SYLLABUS DISTRIBUTION**

**2022 – 2023 (Revised)**

01	Dr. Arun T. Chougule	Theory	a) Body Fluid & Immune Mechanism b) Cardio vascular system c) Endocrinology d) Special Senses e) Renal Physiology
		Practical	a) Hematology, Clinical & Biochemistry
02	Dr. Omkar A. Katage	Theory	a) General Physiology b) Skin & The Integumentary System c) Nerve Muscular Physiology d) Vitamins e) Reproductive system f) Digestive System
		Practical	a) Clinical, OPD
03	Dr. Prerana B. Patil	Theory	a) Bio-Physical Sciences b) Respiratory System c) CNS d) Biochemistry
		Practical	a) Hematology, Clinical & Biochemistry

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**DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY**

**Subject Code: Hom UG – PB**

**I B.H.M.S. (2022)**


**A/Y: 2022 - 2023**

**Advance Teaching Plan – Dr. Arun T. Chougule**

(No. of lectures 3 per week = 12 per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each	
1	February 2023	Foundation course		2	
			<b>Body fluids &amp; immune mechanism</b>	Blood	2
				Plasma proteins	2
				Red blood cells	2
				erythropoiesis	4
				Hemoglobin & iron metabolism	2
2	March 2023	<b>Body fluids &amp; immune mechanism</b>	ESR	2	
			PCV & blood indices	2	
			Haemolysis & fragility of RBC	2	
			White Blood Cells	2	
			Immunity	3	
			Platelets	1	
3	April 2023	<b>Body fluids &amp; immune mechanism</b>	Hemostasis	1	
			Coagulation of Blood	2	
			Blood Groups	2	
			Blood Transfusion	1	
			Blood Volume	1	
			Reticuloendothelial System and Tissue Macrophage	3	
			Spleen	2	

  
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4	May 2023	<b>Body fluids &amp; immune mechanism</b>	Lymphatic System and Lymph	1
			Tissue Fluid and Edema	1
		<b>Cardiovascular System</b>	Introduction to Cardiovascular System Properties of cardiac muscle	4
		<b>Summer vacation</b>		
5.	June 2023	<b>4th Month – 5 days PA</b>		
		<b>Cardiovascular System</b>	Cardiac Cycle	2
			General Principal of circulation	1
			Heart Sounds	2
Regulation of cardiovascular system	2			
6	July 2023	<b>Cardiovascular System</b>	Normal and abnormal Electrocardiogram (ECG)	2
			Heart Rate	3
			Arterial Blood Pressure	3
			Radial Pulse	2
			Regional circulation – Cerebral, Splanchnic, Capillary, Cutaneous & Skeletal muscle circulation	2
7.	August 2023	<b>Cardiovascular System</b>	Cardiovascular adjustments during exercise	1
		<b>Endocrinology</b>	Introduction to Endocrinology	3
			Hormones and hypothalamo – hypophyseal axis	3
			Pituitary Gland	5
8	September 2023	<b>6th Month – 10 days TT – including Viva Voce</b>		
		<b>Endocrinology</b>	Thyroid Gland	6
			Parathyroid Glands	2
9	October 2023	<b>Endocrinology</b>	Endocrine Functions of Pancreas	5
			Adrenal Cortex	4
			Adrenal Medulla	2
			Endocrine Functions of Other Organs	1
10	November 2023	<b>9th Month – 5 days PA</b>		
		<b>Winter Vacation</b>		

  
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		<b>Renal Physiology</b>	Physiological Anatomy of Kidney, and Urinary tract	4
11	December 2023	<b>Renal Physiology</b>	Fluid & electrolyte with acid base balance need to be include	2
			Renal circulation	2
			Urine formation: Renal clearance, glomerular filtration, tubular reabsorption, selective secretion, concentration of urine, acidification of urine	8
12	January 2024	<b>Renal Physiology</b>	Renal Function Tests	2
			Micturition	4
		<b>Special Senses</b>	Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction	6
13	February 2024	<b>12th Month – 10 days TT – including Viva Voce</b>		
		<b>Special Senses</b>	Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction	2
			Ear: Auditory pathway, Mechanism of hearing, Auditory defects	6
14	March 2024	<b>Special Senses</b>	Sensation of taste: Taste receptors, Taste pathways	4
			Sensation of smell: Olfactory receptors, olfactory, pathways	4
			Sensation of touch	
15	April 2024	<b>14th Month – 5 days PA</b>	Revision	6
16	May 2024		Revision	6
17	June 2024		Revision	8
18	July 2024	<b>18th Month – 12 days TT – including Viva Voce – University exam</b>		

  
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**I B.H.M.S. (2022)**

**A/Y: 2022 - 2023**

**Advance Teaching Plan – Dr. Omkar A. Katage**

(No. of lectures 2 per week = 8 per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	February 2023	Foundation course		2
		<b>General Physiology</b>	Introduction to cellular physiology	2
2	March 2023	<b>General Physiology</b>	Introduction to cellular physiology	4
			Cell Junctions	4
3	April 2023	<b>General Physiology</b>	Cell Junctions	2
			Transport through cell membrane and resting membrane potential Body fluids compartments	5
			Homeostasis	1
4	May 2023	<b>General Physiology</b>	Homeostasis	2
			Skin & Integumentary System	2
		<b>Skin &amp; The Integumentary System</b>		
		<b>Summer vacation</b>		
5.	June 2023	<b>4th Month – 5 days PA</b>		
		<b>Skin &amp; The Integumentary System</b>	Skin & Integumentary System	1
			Layers of Skin	3
Function of Skin	3			
6	July 2023	<b>Skin &amp; The Integumentary System</b>	Sweat	3
			Body temperature and its regulation	3

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		<b>Nerve Muscle Physiology</b>	Physiological properties of nerve fibres	2
7.	August 2023	<b>Nerve Muscle Physiology</b>	Nerve fibre- types, classification, function, Degeneration and regeneration of peripheral nerves	4
			Neuro-Muscular junction	2
			Physiology of Skeletal muscle	2
8	September 2023	<b>6th Month – 10 days TT – including Viva Voce</b>		
		<b>Nerve Muscle Physiology</b>	Physiology of Cardiac muscle	2
			Physiology of Smooth muscle	2
			EMG	1
9	October 2023	<b>Vitamins</b>	Vitamins	5
		<b>Reproductive System</b>	Male reproductive system-testis and its hormones; seminal vesicles, prostate gland, semen	3
10	November 2023	<b>9th Month – 5 days PA</b>		
		<b>Winter Vacation</b>		
		<b>Reproductive System</b>	Introduction to female reproductive system	2
			Menstrual cycle	1
11	December 2023	<b>Reproductive System</b>	Menstrual cycle	2
			Ovulation	1
			Menopause & Infertility	1
			Pregnancy and parturition	1
			Placenta	1
			Pregnancy tests	1
			Mammary glands and lactation Fertility	1
12	January 2024	<b>Reproductive System</b>	Foetal circulation	1
			<b>Digestive System &amp; Nutrition</b>	Introduction to digestive system
		Composition and functions of digestive juices		4
13	February 2024	<b>12th Month – 10 days TT – including Viva Voce</b>		
		<b>Digestive System &amp; Nutrition</b>	Composition and functions of digestive juices	2
			Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	3

  
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14	March 2024	<b>Digestive System &amp; Nutrition</b>	Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	5
			Movements of gastrointestinal tract	3
15	April 2024	<b>14th Month – 5 days PA</b>		
		<b>Digestive System &amp; Nutrition</b>	Movements of gastrointestinal tract	2
			Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	4
16	May 2024	<b>Summer vacation</b>		
		<b>Digestive System &amp; Nutrition</b>	Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	4
17	June 2024	<b>Digestive System &amp; Nutrition</b>	Gastrointestinal hormones	2
			Digestion and absorption of carbohydrates, proteins and lipids	4
			Revision	2
18	July 2024	<b>18th Month – 12 days TT – including Viva Voce – University exam</b>		

  
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**Subject Code: Hom UG – PB**

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**A/Y: 2022 - 2023**

**Advance Teaching Plan – Dr. Prerna Y. Chougule**

(No. of lectures 2 per week = 8 per month)

Sr. No	Month	Name of Topic	Distribution of Subtopics of Lectures	No. of Lectures Required for each
1	February 2023	Foundation course		1
		<b>Bio-Physical Sciences</b>	Filtration & Ultra-filtration	1
2	March 2023	<b>Bio-Physical Sciences</b>	Osmosis	2
			Diffusion	2
			Adsorption & Hydrotropy	1
			Colloid	2
			Donnan Equilibrium	1
3	April 2023	<b>Bio-Physical Sciences</b>	Tracer elements & Dialysis	1
			Atomic structures	2
			Absorption & Assimilation	1
			Acid base balance & Buffer	1
			Surface tension	1
			Membrane potential	2
4	May 2023	Summer vacation		
		<b>Respiratory System And Environmental Physiology</b>	Physiological anatomy of respiratory tract	2
			Mechanism of respiration	3
5.	June 2023	4th Month – 5 days PA		
		<b>Respiratory System And</b>	Ventilation	3


  
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		<b>Environmental Physiology</b>	Diffusion of gases	1
			Transport of respiratory gases	3
			Regulation of respiration	1
6	July 2023	<b>Respiratory System And Environmental Physiology</b>	Regulation of respiration	2
			Pulmonary Function Test	3
			High altitude and space physiology	1
			Deep sea physiology	1
			Artificial respiration	1
7.	August 2023	<b>Respiratory System And Environmental Physiology</b>	Effects of exercise on respiration	4
		<b>Central Nervous System</b>	Introduction to nervous system & Neuron	2
			Neuroglia	2
8	September 2023	<b>6th Month – 10 days TT – including Viva Voce</b>		
		<b>Central Nervous System</b>	Receptors	2
			Synapse	2
			Neurotransmitters	1
9	October 2023	<b>Central Nervous System</b>	Reflex	2
			Spinal cord	6
10	November 2023	<b>9th Month – 5 days PA</b>		
		<b>Winter Vacation</b>		
		<b>Central Nervous System</b>	Spinal cord	2
11	December 2023	<b>Central Nervous System</b>	Somato-sensory system and somato-motor system	2
			Physiology of pain	2
			Brain stem	1
			Vestibular apparatus	1
			Cerebral cortex	2
12	January 2024	<b>Central Nervous System</b>	Thalamus	1
			Hypothalamus	1
			Internal capsule	1
			Basal ganglia	1
			Limbic system	1
			Cerebellum – Posture and equilibrium	2
			Reticular formation	1

  
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13	February 2024	<b>12th Month – 10 days TT – including Viva Voce</b>		
		<b>Central Nervous System</b>	Proprioceptors	1
			Higher intellectual function & Electroencephalogram (EEG)	3
			Physiology of sleep	1
14	March 2024	<b>Central Nervous System</b>	Cerebro-spinal fluid (CSF)	1
			Autonomic Nervous System (ANS)	2
		<b>Bio-Chemistry</b>	Carbohydrates	5
15	April 2024	<b>14th Month – 5 days PA</b>		
		<b>Bio-Chemistry</b>	Lipids	4
			Proteins	2
16	May 2024	<b>Summer vacation</b>		
		<b>Bio-Chemistry</b>	Proteins	2
			Enzymes	2
17	June 2024	<b>Bio-Chemistry</b>	Minerals	3
			Organ function tests	2
			Revision	3
18	July 2024	<b>18th Month – 12 days TT – including Viva Voce – University exam</b>		

  
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**I B.H.M.S. (2022)**

**A/Y: 2022 - 2023**

**Advance Teaching Plan – Dr. Arun T. Chougule**

**PRACTICAL (Haematology, Clinical, Biochemistry)**

(No. of Practical 2 hrs per week = 8 hrs per month)


Sr. No	Month	Name of Topic	Distribution of Subtopics of Practical	No. of Practical 2 hrs per Practical
1	February 2023	Introduction	Introduction to Haematology Practical	2
2	March 2023	HAEMATOLOGY	Study of the Compound Microscope	6
			Estimation of Haemoglobin Concentration	2
3	April 2023	HAEMATOLOGY	Estimation of Haemoglobin Concentration	4
			Total RBC Count	4
4	May 2023	HAEMATOLOGY	Total RBC Count	4
		Summer vacation		
5.	June 2023	4th Month – 5 days PA	Total RBC Count	2
		HAEMATOLOGY	Total Leucocytes Count (TLC)	4
6	July 2023	HAEMATOLOGY	Total Leucocytes Count (TLC)	6
			Preparation And Examination Of Blood Smear	2
7.	August 2023	HAEMATOLOGY	Preparation And Examination Of Blood Smear	8
8	September 2023	6th Month – 10 days TT – including Viva Voce HAEMATOLOGY	Determination of Erythrocyte Sedimentation Rate	6
9	October 2023	HAEMATOLOGY	Determination of Blood Groups	6
			Determination of Bleeding Time and Coagulation Time	2

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10	November 2023	9th Month – 5 days PA Winter Vacation HAEMATOLOGY	Determination of Bleeding Time and Coagulation Time	4
11	December 2023	Cardio-Vascular System	Blood Pressure Recording	4
			Radial Pulse	4
12	January 2024	Cardio-Vascular System	ECG	2
			Clinical Examination	6
13	February 2024	12th Month – 10 days TT – including Viva Voce		
		Special Senses	Special Senses- Clinical Examination	6
14	March 2024	Special Senses	Special Senses- Clinical Examination	8
15	April 2024	14th Month – 5 days PA  BIOCHEMISTRY	Liver Function Tests	4
			Kidney Function Tests	2
16	May 2024		Kidney Function Tests	2
17	June 2024	BIOCHEMISTRY	Lipid Profile	4
18	July 2024	18th Month – 12 days TT – including Viva Voce – University exam		

  
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**A/Y: 2022 - 2023**


**Advance Teaching Plan – Dr. Omkar A. Katage**

**PRACTICAL (Clinical, OPD)**

(No. of Practical 2 hrs per week = 8 hrs per month)


Sr. No	Month	Name of Topic	Distribution of Subtopics of Practical	No. of Practical 2 hrs per Practical
1	February 2023	Introduction	Introduction to Clinical Physiology	2
2	March 2023	CLINICAL PHYSIOLOGY	Case Taking & Approach to pt	6
			General Concept Of Examination	2
3	April 2023	CLINICAL PHYSIOLOGY	General Concept Of Examination	8
4	May 2023	CLINICAL PHYSIOLOGY	Examination of muscles, joints	4
		Summer vacation		
5.	June 2023	4th Month – 5 days PA CLINICAL PHYSIOLOGY	Examination of muscles, joints	6
6	July 2023	CLINICAL PHYSIOLOGY	OPD	8
7.	August 2023	CLINICAL PHYSIOLOGY	OPD	8
8	September 2023	6th Month – 10 days TT – including Viva Voce OPD	OPD	6
9	October 2023	OPD	OPD	8
10	November 2023	9th Month – 5 days PA Winter Vacation	OPD	2

  
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		OPD		
11	December 2023	OPD	OPD	8
12	January 2024	OPD	OPD	8
13	February 2024	12th Month – 10 days TT – including Viva Voce	OPD	2
		OPD CLINICAL PHYSIOLOGY	Reproductive System- Diagnosis of Pregnancy	4
14	March 2024	CLINICAL PHYSIOLOGY	Reproductive System- Diagnosis of Pregnancy	2
		CLINICAL PHYSIOLOGY	Gastrointestinal System- Clinical Examination	6
15	April 2024	14th Month – 5 days PA	Gastrointestinal System- Clinical Examination	4
		CLINICAL PHYSIOLOGY OPD	OPD	2
16	May 2024	OPD	OPD	4
17	June 2024	OPD	OPD	8
18	July 2024	18th Month – 12 days TT – including Viva Voce – University exam		

  
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**A/Y: 2022 - 2023**


**Advance Teaching Plan – Dr. Prerna Y. Chougule**

**PRACTICAL (Haematology, Clinical, Biochemistry)**

**(No. of Practical 2 hrs per week = 8 hrs per month)**


Sr. No	Month	Name of Topic	Distribution of Subtopics of Practical	No. of Practical 2 hrs per Practical
1	February 2023	Introduction	Introduction to Haematology Practical	2
2	March 2023	HAEMATOLOGY	Collection of Blood Samples	6
			Determination of Haematocrit	2
3	April 2023	HAEMATOLOGY	Determination of Haematocrit	4
			Hemocytometry	4
4	May 2023	HAEMATOLOGY	Hemocytometry	2
			Determination of RBC Indices	2
		Summer vacation		
5.	June 2023	4th Month – 5 days PA	Determination of RBC Indices	4
		HAEMATOLOGY	Differential Leucocyte Count (DLC)	2
6	July 2023	HAEMATOLOGY	Differential Leucocyte Count (DLC)	8
7.	August 2023	HAEMATOLOGY	Absolute Eosinophil Count	6
		Clinical	Respiratory System- Clinical Examination	2
8	September 2023	6th Month – 10 days TT – including Viva Voce Clinical	Respiratory System- Clinical Examination	6

  
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9	October 2023	Clinical	Respiratory System- Clinical Examination	4
			Respiratory System- Spirometry, Stethography	4
10	November 2023	9th Month – 5 days PA Winter Vacation BIOCHEMISTRY	Demonstration of Uses Of Instruments Or Equipment	4
11	December 2023	BIOCHEMISTRY	Demonstration of Uses Of Instruments Or Equipment	2
			Qualitative Analysis of Carbohydrates	4
12	January 2024	BIOCHEMISTRY	Qualitative Analysis of Proteins	4
			Qualitative Analysis of Lipids	2
			Normal Characteristics of Urine	2
13	February 2024	12th Month – 10 days TT – including Viva Voce BIOCHEMISTRY	Normal Characteristics of Urine	2
			Abnormal Constituents of Urine	4
14	March 2024	BIOCHEMISTRY	Abnormal Constituents of Urine	4
			Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	4
15	April 2024	14th Month – 5 days PA	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	2
		BIOCHEMISTRY	OPD	4
16	May 2024		OPD	4
17	June 2024	BIOCHEMISTRY	OPD	8
18	July 2024	18th Month – 12 days TT – including Viva Voce – University exam		

  
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