

**KONKAN EDUCATION SOCIETY'S
LOKNETE ADV DATTA PATIL HOMOEOPATHIC MEDICAL COLLEGE & HOSPITAL
VENGURLA**



DEPT OF PHYSIOLOGY AND BIOCHEMISTRY

As on 08/01/2024

A) LIST OF EQUIPMENTS AS PER CCH

Details of Items/Equipment etc. available as per schedule-III of HCC(MSR) Regulations, 2013

Sr. No.	Items	Required	Available
01	<u>For Human Experiments:</u>		
01	Medical Microscope	25	40
02	Equipment for ESR estimation / Westergren's pipette for ESR on stand	25 (With spares)	36 (With 50 spares)
03	Hematocrit tubes	30 (with spares)	30 (with 30 spares)
04	Auto Analyzer or Semi Analyzer	01	01
05	Haemoglobinometer Sahlis	25 (with spares)	50
06	Haemocytometer	25 (with spares)	50
07	Sphygmomanometer	25	32
08	Stethoscope	25	30
09	Clinical thermometer (digital)	25	35
10	Knee hammer	25	40
11	Tuning forks to test hearing 32-10-000 yps	1 set	2 set
12	Stethographs or pneumographs	05	06
13	Electrocardiograph (E.C.G. Machine)	01	01
14	Electronic Stop watches 1/10 sec.	04	20
15	Glass distillation still	01	01
16	Centrifuge medium speed	02	02
17	Calorimeter (photo electric)	02	02
18	P. H. meter Electric	01	01
19	Color perception lantern (Edridge Green)	01	01
20	Incubator	01	01
21	Educational CD	As required	Available 02
	DVD	As required	Available 02
	Films	As required	Prepared - 159 Printed - 76
	Slides	As required	Histology - 60
	Models	As required	Available 08
	Audiovisual aids	As required	1 LCD, 1 OHP, 1 Slide projector
22	Perimeter	03	03
23	Spirometer	01	03
24	Tonometers	01	02
25	Handgrips Dynamometer	01	02
26	Bicycle Ergometer	01	01
	Facility for Animal Experiments Demonstration shall be done with the help of audio-visual aids		02 CD, s, Specimens- 5, Video-6 PPT - 10 Topic
02	Numbers of additional items available		Total - 54 items

Principal

03	<i>Biochemistry</i>		
	1.	Electronic Monopan Balance	01 02
	2.	Centrifuge	01 01
	3.	Balance, Chemical/ordinary	02 02
	4.	Water baths	02 02
	5.	Urinometer	25 27
	6.	Hydrometer (0.700 to 1.00)	02 08
	7.	Albuminometers	10 14
	8.	Gluconometer	10 20
	9.	Thermometer	10 35
	10.	Calorimeter	01 02
	11.	Hot air oven 14" x 14" x 14" (Electric	01 01
	12.	Dubble distillation apparatus Glass	10 10
	13.	Centrifuge Medium speed electric	01 01
	14.	Glass wares like	As Required
		Pipets	Available
		Beakers	Available
		Burettes	Available
		Wires gouge with asbestos	As Required Available-22
		Center hot plates,	As Required Available-01
		Stove	As Required Available-01
		Syringes	As Required 2ml- 100 5ml- 100 10 ml - 15
		Burners	As Required Burners-12/ Spirit Lamp-23
		Rubber tubing	As Required Available-01
		Stands	As Required Available-18
		Climps	As Required Available-10
		Flask	As Required Available-05
	15.	P.H. Meter	01 01
4	Numbers of additional items available		List attached-Photo Scientist 10
5	Total Number of Charts		58

1. LIST OF ADDITIONAL ITEMS IN PHYSIOLOGY

01	Double demonstration Eye piece	10
02	Eye piece 5x	05
03	Eye piece 10x	02
04	Eye piece 15x	38
05	Binocular Microscope	02
06	Glass Slides	215
07	Cotton	200gm
08	Wintrob's Tubes	60
09	Westergren Tubes	100
10	Distilled Water	50ml
11	Dropper	05
12	HB Pipette	20
13	RBC Pipette	15



14	WBC pipette	50
15	Thomassis Slides Additional	00
16	Coverslip	06 Box
17	Brush	32
18	Enamel Tray	01
19	Sphygmomanometer Dial Type	02
20	Sphygmomanometer Electronic Type	02
21	Stethoscope Double Demonstration	02
22	Graduated Tube (Round)	00
23	Test tube Holders	50
24	Centrifuge Tubes	48
25	Capillary Tubes	5 boxes
26	Needles	2 boxes
27	Glass Rod	12
28	Pulse OX	01
29	Filter Paper Round	5 boxes
30	Round Test Tube 2 ml	10
31	Gloves	3 boxes
32	ECG Jelly	1
33	ECG Roll	4
34	Vision Drum (Eye testing drum)	01
35	Litmus Paper Blue	05 boxes
36	Litmus paper Red	05 boxes
37	Camara	01
38	Ichihara Chart	02
39	Otolaryngoscope	01
40	Dropper	60
41	Reagent (in Refrigerator)	01
42	Pipette 1/20	20
43	Pipette .0.1ml	20
44	Pipette 1ml	20
45	Pipette Pauster	40
46	Pipette 1/10	15
47	Lumbar Puncture needle	15
48	Heating Point Apparatus	01
49	Melting Point Apparatus	01
50	Beaker	04
51	Wire gauze Packet	04
52	Desiccator Big	01
53	Desiccator Small	04
54	Hygrometer	01
55	Stomach Tube	01
56	Foley Catheter	05
57	Ultra Violet lamp	01
58	Hair Aesthesiometer	01
59	Wall Thermometer	03
60	Anesthesia Box	01
61	Douglas Bag	01
62	Electronic Stimulator	01
63	Viscometer	01
64	PH Comparator	01
65	Concave Mirror	09
66	Tourniquet	70
67	Staining Rack	15
68	Blood lancet	02 box

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2. LIST OF MODELS- 09

1	Ear	02	2	Nose	02
3	Kidney	02	4	Heart	02
5	Spleen	02	6	Eyeball	01
7	Lung	02	8	Brain	02
9	Eye models	01	10		

3. LIST OF SPECIMANS- 05

1.	Lung left	01	2.	Heart	01
3.	Large intestine	01	4.	Right Kidney	01
5.	Stomach	01			

4. LIST OF FILM/CHARTS IN PHYSIOLOGY SR. NO. -21 D - 58

1.	Human Physiology	2.	Human Circulation of blood
3.	Human Anatomy E.N.T.	4.	Resperatory System
5.	The Heart – Cross section of Heart	6.	The muscles of Human body
7.	The structure of Human skeleton	8.	Conditions of ceaseran section
9.	Disorders of eyes	10.	Understanding cholesterol
11.	The Skin	12.	Female Rep. system Anatomy & Pathology
13.	Resperatory System	14.	Transmission of dorsal column
15.	Understanding type 2 Diabetes	16.	Pregnancy & Birth
17.	Understanding menopause	18.	Somato sensory Pathways
19.	Migraine & headache	20.	Structure of Rhodes & chemisty of vision
21.	Female Reproductive system	22.	Central neuro physiology of vision
23.	The ear – organs of balance	24.	Mechanism of hearing
25.	Properties of neurones & synapse	26.	Pain path ways – 2
27.	Retinal neurons	28.	Hypothalamus – functions
29.	Immunity – I cell mediated Immunity	30.	Spermatogenesis & reproduction
31.	Genesis of white Blood cell	32.	Cortico – spinal tract
33.	Reticular activating & inhibiting system	34.	Haemopoiesis
35.	Cross section Reticuloendothelial orgaqs	36.	Immunity – II
37.	Motor functions of the spinal cord	38.	Motility & nervous control
39.	Pathway for equilibrium of human body	40.	Accommodation mechanism – I
41.	Organs of corti	42.	Central auditory pathways & perception
43.	Acid – base nomogram	44.	Menstruation
45.	Accommodation mechanism – II	46.	The Synapse
47.	Pathways for synthesis of hormones	48.	Pain pathways – I
49.	Neuro – hormonal synthesis in brain	50.	Golgi tendon organ
51.	Olfactory pathways	52.	Physiology of tooth
53.	Motor control by cerebellum pathways	54.	Menstrual cycle in Human
55.	Somato sensory & skeleton motor nerve	56.	Cerebellar pathways & over all control
57.	Haemostasis& Blood coagulation	58.	Pituitary Gland & its function

5. LIST OF SCIENTIST PHOTOGRAPHS - 08

1.	Photograph of Karl Land	2.	Photograph of Marcello Malpighi
3.	Photograph of Herman Helmholtz	4.	Photograph of Charls H. Best
5.	Photograph of Willium Harvey	6.	Photograph of Dr. Samuel Haheneman
7.	Photograph of Stephen Hales	8.	Photograph of J. E. Perkinje
9.		10.	



6. LIST OF HISTOLOGY SLIDES IN PHYSIOLOGY

1.	Thymus gland-	2.	Shaft Bone (Foetus)	3.	Large Intestine
4.	Fallopian tube	5.	Small Intestine	6.	Tooth
7.	Thyroid	8.	Lung	9.	Ear Pinna
10.	Artery	11.	Urinary Bladder	12.	Sperm
13.	Pancreas	14.	Ileum	15.	Large intestine
16.	Kidney	17.	Testis	18.	Ureter
19.	Vein	20.	Bone	21.	Lymph node
22.	Parathyroid gland	23.	Kidney	24.	Thyroid Gland
25.	Vein	26.	Spleen	27.	Smooth Muscle
28.	Testis	29.	Stomach	30.	Jejunum
31.	Cardiac Muscle	32.	Liver	33.	Salivary glands
34.	Squamous epithelium	35.	Pancreas	36.	Duodenum
37.	Cornea	38.	Non Medullated Nerve fib	39.	Nerve Fibre Smear
40.	Adrenal Gland	41.	Elastic Cartilage	42.	Hyaline Cartilage
43.	Spinal Cord	44.	Normal Blood smear	45.	Abnormal Blood smear
46.	Mammal Ovary T.S.	47.	Human Skin	48.	Human Blood smear RBC
49.	Human Blood smear WBC	50.	Plant Cell	51.	Animal Cell

7. Power Point Presentation - On Twenty Topic (Are updated every year)

8. TRANSPARENCIES

1. Prepared – 159

1) Renal Physiology	79
2) Respiratory	19
3) Digestive	23
4) Endocrine	06
5) C V S	32

2. Readymade 76

9. VIDEOS ON CLINICAL EXAMINATION –Downloaded (06)

1.	Basic Physical Exam. Respiratory System	2.	Clinical Exam. Respiratory System
3.	Basic Physical Examination-CVS System	4.	Clinical Exam. Cardiovascular System
5.	Clinical Exam. On abdominal System	6.	Blood Circulations Heart

10. ANIMAL EXPERIMENTATION CD-Downloaded (07)

1.	Effect of temperature and drugs on Frogs Heart
2.	Frogs Heart Experiment
3.	Frog Heart – Cardiac Cycle
4.	Muscle Fat-Skeletal Muscle, Summation, tetanus
5.	Muscle Fatigue-Slow & Fast Fatigueable Frogs muscleFibres
6.	Neuromuscular Experiment
7.	Physiology-Nerve Muscle

11. List of Reagent – Haematology (12)

Sr. No.	Name	Quantity as on 8.1.2024	Expiry date
1	R.B.C. Diluting Fluid	500ml	01/2024
	--/--	--/--	03/2027
2	W.B.C. Diluting Fluid	500ml	10/2025
	--/--	--/--	02/2028
	--/--	--/--	08/2027
3	Leishman's Staining soln.	500ml	02/2028
4	E D T A Powder	500 gm x 2	06/2025
5	HCL N/10 soln	500ml	01/2025
6	Spirit	500 ml	04/2025
7	Cotton Bundle	½ kg	-
8	Phenol detached crystals 99%	500 gm	08/2025
9	Isopropyl Rubbing alcohol U.S.P	100 ml	06/2024
10	EDTA Solution	500 ml	01/2025
11	Anti A, B and D (kit)	--	--
12	Distilled Water	--	--

12 List of Reagent - For Biochemistry (72)

Sr. No.	Name	Quantity as on 7.1.2024	Expiry date
1.	Acetic Acid 1 % Solution	500ml	-
2.	Acetic Acid 10 % Solution	00ml	-
3.	Acetic Acid 25% Solution	1000ml-	11/2025
4.	Acetic Acid 99.5% Solution (Glacial)	500 ml	07/ 2025
5.	Alcohol Strong	00	-
6.	Alcoholic Iodine	00	-
7.	Alpha Naphthol 1 % Solution	00	-
8.	Ammonia Solution 25 %	500ml	02/ 2026
9.	Ammonium Molybdate Solution	00	-
10.	Ammonium oxalate monohydrate	500g	01/2028
11.	Ammonium sulphate Solution	500 ml	-
12.	Barfoed's Reagent	250ml	-
13.	Barium Chloride	500gm	-
14.	Benedict's Reagent	500ml	07/2025
15.	Benzidine Powder	00	-

16.	Calcium carbide	250ml	12/2024
17.	Chlorophenol Red Solution	500 ml	-
18.	Copper Sulphate Solution	500 ml	01/2025
19.	Cupric Sulphate Powder	500 g	08/2024
20.	Disodium tetraborate decahydrate 99%	500 g	10/2027
21.	Esbach's Reagent	125ml	12/2027
22.	Fehling's Solution No. 1	500 ml	04/2024
23.	Fehling's Solution No. 2	500 ml	06/2024
24.	Ferric chloride	00	-
25.	Formaldehyde Solution 37 %	00	-
26.	Fouchet's Reagent 25 %	125 ml	01/2026
27.	Gower's Reagent (RBC Fluid)	500 ml	02/2028
28.	Hydrochloric Acid 35 %	500 ml	02/2028
29.	Hydrochloric Acid N/10	500 ml	01/2026
30.	Hydrogen Peroxide Solution	500ml	02/2026
31.	Iodine Solution N/10	500 ml	03/2026
32.	Lead Acetate Basic Solution	1000 ml	-
33.	Lead Nitrate 99%	500 g	07/2025
34.	Liquid Ammonia - Diluted	00	-
35.	Liquid Ammonia- Strong	00	-
36.	Magnesium Sulphate 0.1m Solution	500 ml	11/2025
37.	Mercuric Chloride Solution	2 x 1000 ml	01/2025
38.	Mercuric Nitrate 0.01m Solution	1000ml	08/2025
39.	Mercutic Sulphate 98%	100 g	02/2028
40.	Methylene Blue Solution	250 ml	02/2024
41.	Millon's Reagent Solution	00 ml	-
42.	Molish Reagent	100	12/2025
43.	Nessler's Reagent	00	-
44.	Ninhydrine Solution	00	-
45.	Nitric Acid 69 %	00	-
46.	Nylander's Reagent	4 x 50ml	01/2025
47.	Phelorglucinol 10 % Solution	100 ml	02/2025
48.	Phenol Red indicator Solution	125 ml	02/2024
49.	Phenolphthalein Solution	500	01/2026
50.	Picric Acid	00	-
51.	Potassium Chloride Solution	500 ml	07/2025
52.	Potassium Ferrocyanide 98%	500g	09/2025
53.	Potassium Oxalate	00	-
54.	Salicylic acid 99%	500 g	11/2027
55.	Seliwanoff's Reagent	125 ml	05/2024
56.	Silver Nitrate (N/10)	500 ml	12/2025
57.	Sodium Acetate	500g	-
58.	Sodium Carbonate 10 % Solution	500 ml	-
59.	Sodium Chloride	00	-
60.	Sodium Citrate Soln 3.8 %	500 ml	-08/2025
61.	Sodium Hydroxide 1 % Solution	500 ml	01/2026
62.	Sodium Hydroxide 10 % Solution	800 ml	02/2024
63.	Sodium Hydroxide 45 % Solution	500 ml	02/2026
64.	Sodium Hydroxide 6 % Solution	1000ml	02/2028
			02/2025



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65.	Sodium Hypobromide Solution	500 ml	-
66.	Sodium Nitrate	00	-
67.	Sodium Nitroprusside Solution	100 g	02/2028
68.	Sulphosalicylic Acid 20% Solution	250ml	12/2025
69.	Sulphur Powder 98 %	00 gm	-
70.	Sulphuric Acid 98 % Solution	500 ml	02/2024
71.	Sulphuric acid 20%	00 ml	-
72.	Trichloroacetic Acid 20 %	500 ml	03/2026

13. LIST OF MATERIAL FOR BIOCHEMISTRY (Total-05)

Sr. No.	Name	Quantity as on 7.1.2024	Expiry date
01	Glucose – Dextrose		
02	Fructose		
03	Sucrose		
04	Maltose		
05	Lactose		

14. LIST OF DEAD STOCK (Total-16)

1.	Black Board	01	2.	Office table	02
3.	Cushion Chair	04	4.	Instrument cabinet	09
5.	Office table (Wooden)	02	6.	Ceiling Fan	08
7.	Examination table (Wooden)	03	8.	Wash basins	05
9.	Punch Machine	01	10.	Biowaste Dust Bin Biomedical	03
11.	Wooden Stool	25	12.	Dept. Phy. Stamp/Stamp Pad	01
13.	Bulb (Energy Sever)	12	14.	Tube Lights	10
15.	Duster	01	16.	Stapler	01

SUMMARY 08/01/2024

1.	Additional Items in	04	2.	Models	09
3.	Specimens	05	4.	Films Charts	58
5.	Scientist Photograph	08	6.	Histology Slides	51
7.	PPP	21 Topic	8.	Transparencies- Prepared	159
				Readymade	76
9.	Videos on Clinical Exam.	06	10.	Animal Experimentation CD	07
11.	Reagent Haematology	12	12.	Reagent Biochemistry	72
13.	Dead stock	16	14.		

2. Teaching Material =
- 1) CD = 07
- 2) PPT = 20 Topic
- 3) Video = 06
- 4) Transparencies = Prepared 159, Readymade 76

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SYLLABUS DISTRIBUTION

2022 – 2023 (Revised)

			Theory	
		Theory	Body Fluid & Immune Mechanism Cardio vascular system Endocrinology Special Senses Renal Physiology General Physiology Skin & The Integumentary System Nerve Muscular Physiology Vitamins Reproductive system Digestive System Bio-Physical Sciences Respiratory System CNS Biochemistry	
			Practical	
		Practical	Hematology, Clinical Biochemistry OPD	

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DEPARTMENT PHYSIOLOGY AND BIOCHEMISTRY

TERM AND THEME WISE DISTRIBUTION = 325



TERM I

THEME	TOPICS	TERM	Hours	MARKS
A	General physiology	I	20	07
B	Biophysics	I	15	07
C	Body fluids and immune system	I	35	16
G	Skin	I	15	11
H	Nerve muscle physiology	I	15	11
			100	52

TERM II

THEME	TOPICS	TERM	Hours	MARKS
D	CVS	II	20	16
E	Respiratory System	II	25	16
A	Endocrinology	II	30	21
B	CNS	II	35	21
			110	74

TERM III

THEME	TOPICS	TERM	Hours	MARKS
C	Digestive system & nutrition	III	35	21
F	Renal physiology	II	20	16
D	Reproductive system	III	15	17
E	Special senses	III	20	12
F	Biochemistry	III	25	08
			115	74

TOTAL 200 MARKS

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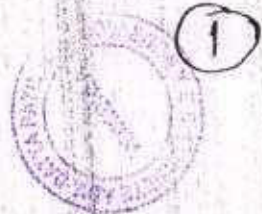
Subject Code: Hom UG – PB

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

A/Y: 2023 - 2024

Advance Teaching Plan – Summary

Dr.



(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
Foundation course				
		Foundation course		6
Body fluids & immune mechanism				
		Body fluids & immune mechanism	Blood	2
			Plasma proteins	2
			Red blood cells	2
			erythropoiesis	4
			Hemoglobin & iron metabolism	2
			ESR	2
			PCV & blood indices	2
			Hemolysis & fragility of RBC	2
			White Blood Cells	2
			Immunity	3
			Platelets	1
			Hemostasis	1
			Coagulation of Blood	2
			Blood Groups	2
			Blood Transfusion	1
			Blood Volume	1
			Reticuloendothelial System and Tissue Macrophage	3
		Spleen	2	
		Lymphatic System and Lymph	1	
		Tissue Fluid and Edema	1	
Cardiovascular System				
		Cardiovascular System	Introduction to Cardiovascular System	4
			Properties of cardiac muscle	2
			Cardiac Cycle	2
			General Principal of circulation	1
			Heart Sounds	2


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		Regulation of cardiovascular system	2
		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
		Cardiovascular adjustments during exercise	1
		Endocrinology	
		Introduction to Endocrinology	3
		Hormones and hypothalamo – hypophyseal axis	3
		Pituitary Gland	5
		Thyroid Gland	6
		Parathyroid Glands	2
		Endocrine Functions of Pancreas	5
		Adrenal Cortex	4
		Adrenal Medulla	2
		Endocrine Functions of Other Organs	1
		9th Month – 5 days PA	
		Winter Vacation	
		Renal Physiology	
		Renal Physiology	
		Physiological Anatomy of Kidney, and Urinary tract	4
		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
		Renal Function Tests	2
		Micturition	4
		Special Senses	
		Special Senses	
		Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction	6

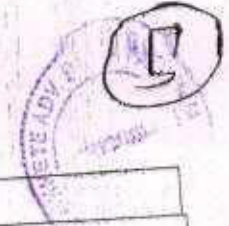


		Eye: Photochemistry of vision, Visual pathway, Pupillary reflexes, Colour vision, Errors of refraction	2
		Ear: Auditory pathway, Mechanism of hearing, Auditory defects	6
		Sensation of taste: Taste receptors, Taste pathways	4
		Sensation of smell: Olfactory receptors, olfactory, pathways Sensation of touch	4
		Revision	6
		Revision	6
		Revision	8
General Physiology			
	General Physiology	Introduction to cellular physiology	2
		Introduction to cellular physiology	4
		Cell Junctions	4
		Cell Junctions	2
		Transport through cell membrane and resting membrane potential Body fluids compartments	5
		Homeostasis	1
		Homeostasis	2
Skin & The Integumentary System			
	Skin & The Integumentary System	Skin & Integumentary System	2
		Skin & Integumentary System	1
		Layers of Skin	3
		Function of Skin	3
		Sweat	3
		Body temperature and its regulation	3
Nerve Muscle Physiology			
		Physiological properties of nerve fibres	2
		Nerve fibre- types, classification, function, Degeneration and regeneration of peripheral nerves	4
		Neuro-Muscular junction	2
		Physiology of Skeletal muscle	2
		Physiology of Cardiac muscle	2
		Physiology of Smooth muscle	2
		EMG	1
	Vitamins		
	Vitamins	Vitamins	5



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	Reproductive System	Male reproductive system-testis and its hormones; seminal vesicles, prostate gland, semen	3
Reproductive System			
	Reproductive System	Introduction to female reproductive system	2
		Menstrual cycle	1
		Menstrual cycle	2
		Ovulation	1
		Menopause & Infertility	1
		Pregnancy and parturition	1
		Placenta	1
		Pregnancy tests	1
		Mammary glands and lactation Fertility	1
		Fetal circulation	1
Digestive System & Nutrition			
	Digestive System & Nutrition	Introduction to digestive system	3
		Composition and functions of digestive juices	4
		Composition and functions of digestive juices	2
		Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, small intestine, large intestine	3
		Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	5
		Movements of gastrointestinal tract	3
		Movements of gastrointestinal tract	2
		Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	4
		Physiological anatomy of Stomach, Pancreas, Liver and Gall bladder, Small intestine, Large intestine	4
		Gastrointestinal hormones	2
		Digestion and absorption of carbohydrates, proteins and lipids	4
		Revision	2



Bio-Physical Sciences			
	Bio-Physical Sciences	Filtration & Ultra-filtration	1
		Osmosis	2
		Diffusion	2
		Adsorption & Hydrotropy	1
		Colloid	2
		Donnan Equilibrium	1
		Tracer elements & Dialysis	1
		Atomic structures	2
		Absorption & Assimilation	1
		Acid base balance & Buffer	1
		Surface tension	1
		Membrane potential	2
Respiratory System and Environmental Physiology			
	Respiratory System and Environmental Physiology	Physiological anatomy of respiratory tract	2
		Mechanism of respiration	3
		Ventilation	3
		Diffusion of gases	1
		Transport of respiratory gases	3
		Regulation of respiration	1
		Regulation of respiration	2
		Pulmonary Function Test	3
		High altitude and space physiology	1
		Deep sea physiology	1
		Artificial respiration	1
	Effects of exercise on respiration	4	
Central Nervous System			
	Central Nervous System	Introduction to nervous system & Neuron	2
		Neuroglia	2
		Receptors	2
		Synapse	2
		Neurotransmitters	1
		Reflex	2
		Spinal cord	6
		Winter Vacation	
		Spinal cord	2
		Somato-sensory system and somato-motor system	2


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		Physiology of pain	2
		Brain stem	1
		Vestibular apparatus	1
		Cerebral cortex	2
		Thalamus	1
		Hypothalamus	1
		Internal capsule	1
		Basal ganglia	1
		Limbic system	1
		Cerebellum – Posture and equilibrium	2
		Reticular formation	1
		Proprioceptors	1
		Higher intellectual function & Electroencephalogram (EEG)	3
		Physiology of sleep	1
		Cerebro-spinal fluid (CSF)	1
		Autonomic Nervous System (ANS)	2
		Carbohydrates	5
Bio-Chemistry			
	Bio-Chemistry	Carbohydrates	5
		Lipids	4
		Proteins	2
		Summer vacation	
		Proteins	2
		Enzymes	2
		Minerals	3
		Organ function tests	2
		Revision	3



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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.

PRACTICAL (Haematology, Clinical, Biochemistry)

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

No	Date	Practical	Demonstration / Performance	Hrs.	Signature
1		Study of the Compound Microscope	Performance	05	
2.		Collection of Blood Samples	Performance	05	
3		Estimation of Hemoglobin Concentration	Performance	05	
4		Determination of Hematocrit	Demonstration	05	
5		Hemocytometry	Performance	05	
6		Total RBC Count	Performance	10	
7		Determination of RBC Indices	Demonstration	05	
8		Total Leucocytes Count (TLC)	Performance	10	
9		Preparation And Examination of Blood Smear	Performance	10	
10		Differential Leucocyte Count (DLC)	Performance	10	
11		Absolute Eosinophil Count	Demonstration	05	
12		Determination of Erythrocyte Sedimentation Rate	Demonstration	05	
13		Determination of Blood Groups	Performance	05	
14		Determination of Bleeding Time and Coagulation Time	Performance	05	
		Total		90	

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Clinical Physiology				
1		Case Taking & Approach to pt	Performance	05
2		General Concept of Examination	Performance	10
3		Examination of muscles, joints,	Performance	10
		Total		25
		GRAND TOTAL		115
TERM II				
4		Cardio-Vascular System – Blood Pressure Recording, Radial Pulse, ECG, Clinical Examination	Performance	15
5		Nervous System- Clinical Examination	Performance	15
6		Respiratory System- Clinical Examination, Spirometry, Stethography	Performance	15
7		Special Senses- Clinical Examination	Performance	15
8		Reproductive System- Diagnosis of Pregnancy	Performance	05
		Total		65
		OPD (Applied Physiology)		
1		OPD (Applied Physiology)	Demonstration & Performance	(30) 90
		TERM III		
BIOCHEMISTRY				
1		Demonstration of Uses of Instruments or Equipment	Demonstration	05
2		Qualitative Analysis of Carbohydrates, Proteins and Lipids	Performance	10
3		Normal Characteristics of Urine	Performance	04
4		Abnormal Constituents of Urine	Performance	10

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5	Quantitative Estimation of Glucose, Total Proteins, Uric Acid in Blood	Performance	05	
6	Liver Function Tests	Demonstration	04	
7	Kidney Function Tests	Demonstration	04	
8	Lipid Profile	Demonstration	04	
9	Interpretation and Discussion of Results of Biochemical Tests	Demonstration	04	
	Total		50	
Clinical physiology				
1	Gastrointestinal System-Clinical Examination	Performance	10	
	Total		10	
OPD-Applied				
1	OPD (Applied Physiology)	Demonstration & Performance	(60) 90	
	Total		90	
	Grand Total		120	

Total 330 hrs

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DEPARTMENT OF PHYSIOLOGY INCLUDING BIOCHEMISTRY
REPORT OF THE ACTIVITIES OF THE DEPARTMENT

2023

SR	DATE	ACTIVITY	REMARK
	29.04.23	First term unit test	
	21.04.23	NCH Degree course regulation awareness	
	03.05.23	Topic writing	
	25.07.23	Terminal Exam Theory	
	27.07.23	Terminal Exam Practical	
	1.11.23	Second term unit	
	7.04.23	World Health Day	
	10.04.23	World Homoeopathy Day	
	1.05.23	Maharashtra Day	
	10.06.23	MUHS Foundation Day	
	21.06.23	World Yoga Day	
	1.07.23	Doctors' day	
	14.08.23	Har Ghar Tiranga	
	5.09.23	Teachers Day	
	6.10.23	Pharmacy Day	

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