

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)

■ Email:- hhmc.20@gmail.com ■ Website:-www.hhmc.co.in

■ Tel. & Fax No.:- (02322) 295503 Office No. : 8446149667, Mob. No.:- 9422582621 / 9422421294

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

Academic year 2025-26

DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

LIST OF STAFF

1. PROFESSOR & HEAD OF DEPARTMENT:

➤ DR. CHOUGULE A. T. (G.C.E.H)

2. READER :

➤ DR. CHOUGULE P. Y. (B.H.M.S., M.D (HOM.)

3. LECTURER :

➤ DR. KATAGE O. A. (B.H.M.S., M.D (HOM.)

➤ DR. KAMBLE V. S. (B.H.M.S., M.D (HOM.)

4. LAB. TECHICIAN :

➤ MRS. JYOTI P. YADAV

5. LAB. ATTENDANT :

➤ MR. TANAJI B. GAWADE

6. Multi – Tasking staff :

MR. SOURABH SHASHIKANT SWAMI


H. O. D.
Physiology Dept.




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

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

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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

BUILTUP AREA REQUIREMENT

Sr. No.	Particulars	Built up Area			
		Required Area (In square meters.)	Existing Area (In square meters.)	Required Area (In sq. ft.)	Existing Area (In sq. ft.)
1	Physiology Department room - HOD Room		11.96		128.79
2	Separate Laboratory for Physiology		57.7		618.7
3	Separate Laboratory for Biochemistry		52.28		562.64
4	Museum and Demonstration Room		57.7		618.7
5	Total	175	179.64	968.4	1928.83

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DEPARTMENT OF HUMAN PHYSIOLOGY & BIOCHEMISTRY

APPENDIX – 3

List of equipment required for physiology lab

Sr. No	Name of Article	Quantity Required	Quantity Available
1	Medical microscope with oil immersion	25	25
2	Equipment for Erythrocyte sedimentation rate estimation or westergren's pipette for Erythrocyte sedimentation rate on stand	25 (with spare pipettes)	30
3	Haematocrit tubes	35	38
4	Haemoglobinometer (Sahli)	35	38
5	Haemocytometer	25	35
6	Sphygmomanometer	25	25
7	Stethoscope	25	25
8	Clinical thermometer (digital or mercury)	25	25
9	Knee hammer	25	25
10	Tuning forks to test hearing (32-10000 hzs)	01 set	01 set
11	Electrocardiograph (ECG Machine)	01	01
12	Electronic Stop Watches (1/10 sec.)	04	04
13	Glass Distillation (double) apparatus	01	01
14	Centrifuge	01	02
15	Colorimeter (photo electric)	02	02
16	pH Meter (electric)	02	02
17	Colour perception lantern (Edridge Green)	01	02
18	Educational compact disc, digital video disc, films, slides, models with audio visual aids		
*	Educational CD	As required	04
	DVD	As required	01
	Films – Transparence	As required	20
	Slides-	As required	100
	Models	As required	08
	Audio Visual Aids – OHP, Slide projector, LCD Projector	As required	03
19	Perimeter	01	03
20	Spirometer	01	01
21	Tonometer	01	01
22	Handgrip dynamometer	01	01
23	Bicycle Ergometer		



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APPENDIX – 4

Requirements for biochemistry

Sr. No	Name of Article	Quantity Required	Quantity Available
1	Electronic/Monopan Balance	01	01
2	Centrifuge	01	01
3	Balance, chemical/ordinary	01	02
4	Water baths	02	02
5	Urinometer	25	25
6	Chemicals: a) Iodine b) Ammonium oxalate c) Barium chloride d) Silver nitrate e) Sodium hydroxide f) Mercuric sulphate g) Salicylic acid	As required	As required a) 1 b) 1 c) 1 d) 1 e) 1 f) 1 g) 1
7	Hydrometer (0.700 to 1.00)	02	04
8	Albuminometers	10	10
9	Glucometer	10	10
10	Thermometer	10	10
11	Colorimeter	01	01
12	Hot air oven 14"x14"x14" (Electric)	01	01
13	Glass ware like	As required	
	Pipette	As required	24
	Beakers	As required	36
	Burettes	As required	06
	Wire gouge with asbestos	As required	12
	Centre hot plate	As required	01
	Stove	As required	06
	Syringes	As required	25
	Burners	As required	20
	Rubber tubing	As required	Sufficient – 10 feet
	Stands clamps	As required	06
	Flask	As required	13
14	pH (Potential of hydrogen) meter	01	01
15	Binocular research microscope	02	02
16	Stethoscope: demonstration with multiple pieces	02	02
17	Ophthalmoscope	01	01
18	Otorhinolaryngoscope	01	01
19	Stools		



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*List of Details of MSR point no. 18

Educational CD and DVD Educational CD - 1. Physiology 1 – Clinical examination - CVS, Respiratory system & Digestive system. 2. Physiology 2 – Spleen, Lymphatic system. 3. Physiology 3 – Immunity 4. Physiology 4 – Haematology Educational DVD– 1. Miasms	As required	05
Films – Transparency – 1. Connective tissue. 2. Muscular tissue. 3. Cardiac muscle. 4. Nervous tissue. 5. Epithelial tissue 6. Erythropoiesis. 7. Thyroid gland. 8. Salivary gland. 9. Respiratory system. 10. Mechanism of respiration. 11. Cardiac output. 12. Blood volume. 13. Blood Groups. 14. Coagulation of Blood. 15. Platelets. 16. Hemoglobin 17. Leukemia 18. Cell & cell organelles 19. Spirogram 20. ECG	As required	20
Models – 1. Model of Internal Ear. 2. Human ovum. 3. Full term Placenta. 4. Muscle Contraction. 5. Structure of Skin. 6. Heart. New added 2025-26 7. Neuron & Synapse 8. Ovarian follicles	As required	08



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POWER POINT PRESENTATION

Sr. No.	Name of PPT
01.	Blood
02.	Cell
03.	RBC
04.	Erythropoiesis
05.	Digestive System - Salivary Glands
06.	Reproductive system - Male
07.	Muscle Physiology
08.	Visual pathway
09.	Taste pathway
10.	Sensation of Smell
11.	Special Senses eye
12.	Errors of refraction
13.	Structure & Functions of Skin
14.	Ear
15.	Urine Formation
16.	Anatomy & Physiology of Respiratory Tract
17.	Mechanism of Breathing
18.	Classification of Carbohydrates
19.	Classification of Proteins
20.	Classification of Lipids
21.	EEG
22.	CSF
23.	Nutritional Disorders

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24.	Body Temperature
25.	Digestive System –Stomach

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List of Slide's

Sr. No.	Name of Slide	Sr. No.	Name of Slide
1.	Epiglottis	51.	Uterus with Embryo
2.	Retina	52.	Lungs
3.	Vagina	53.	Ureter
4.	Uterus – Endometrium	54.	Nerve Cell
5.	Renal – Nephron	55.	Medulla Oblongata
6.	Bronchus	56.	Vasa Deferentia
7.	Heart	57.	Uterus – t.s
8.	Kidney – Cortex	58.	Tongue
9.	Small Intestine	59.	Kidney – Medulla
10.	Large Intestine	60.	Vena Cava
11.	Stomach	61.	Vein
12.	Spermatic Duct	62.	Aerolar Tissue
13.	Hyaline Cartilage	63.	Artery
14.	Hyaline Cartilage	64.	Muscular Artery
15.	Unstriated Muscle	65.	Lymph Node
16.	Muscle – Cardiac	66.	Lactating Mammary gland
17.	Striated Muscle	67.	Parathyroid gland
18.	Bone	68.	Ground Bone
19.	Bone (Decalcified)	69.	Lip
20.	Stratified Epithelium	70.	Placenta
21.	Simple Columnar Epithelium	71.	Fallopian Tube, Ampula section
22.	Cuboidal Epithelium	72.	Nerve – c.s
23.	Glandular Epithelium	73.	Mucosa tissue – c.s
24.	Epithelium – Pigmented	74.	Eye
25.	Ciliated Epithelium	75.	Joint – l.s
26.	Transitional Stratified Epithelium	76.	Joint – c.s
27.	Spleen	77.	Histology – spinal cord (Thoracic)
28.	Spinal cord	78.	Optic Nerve
29.	Testis	79.	Ileum

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30.	Cerebellum – Brain	80.	Penis
31.	Esophagus – c.s	81.	Stomach – pyloric
32.	Esophagus – t.s	82.	Purking Fibers
33.	Skin	83.	Thymus Gland
34.	Thick Skin	84.	Lymph Gland
35.	Skin with Hair & Sweat gland	85.	Parotid Gland
36.	Skin – white	86.	Adrenal Gland
37.	Trachea	87.	Thyroid Gland
38.	Ovary - t.s	88.	Sub Mandibular Gland
39.	Liver	89.	Larynx
40.	Kidney	90.	Muscles Bundle
41.	Connective Tissue	91.	Histology – Aorta (Elastic tissue)
42.	Jejunum	92.	Urethra – c.s
43.	Blood – WBC	93.	Vermiform Appendix
44.	Blood Smear	94.	Bone – Compact
45.	Pancreas	95.	Bone Marrow
46.	Elastic Cartilage	96.	Scalp
47.	Nerve Fiber	97.	White Fibrous – Connective tissue
48.	Nerve Cell	98.	Brain – c.s
49.	Tissue – Reticular	99.	Bone – Spongy
50.	Adipose Tissue	100.	Brain – Cerebrum


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LIST OF CHARTS

Sr. No.	Name of Charts	Available
REXIN CHARTS		
01	Human Embryology	01
02	Muscular System	01
03	Skeletal System	01
04	Ear	01
05	Eye	01
06	The Components of Human Blood	01
07	Human blood groups	01
08	Human blood Circulation	01
09	Heart	01
10	Circulation of blood	01
11	Respiratory System	01
12	Teeth Anatomy Dental care	01
13	Digestive System	01
14	Lymphatic System	01
15	Nervous system	01
16	Kidney Skin Excretory organs	01
17	Genito - Urinary organs (male)	01
18	Endocrine glands	01
19	Female reproductive system	01
DIGITAL CHARTS		
20	Somatosensory Areas & Reflex Arc.	01
21	Muscular Tissue	01
22	Muscular Tissue	01
23	Connective Tissue	01
24	Connective Tissue	01
25	Organization of blood vessels in human body	01
26	Elements in Blood	01
27	Sympathetic & parasympathetic nervous system	01
28	Limbic system & cerebral areas	01
29	Lymphatic system	01
30	Gaseous Exchange & Negative feedback Mechanism	01
31	Dynamics of Capillary exchanges	01
32	Circulation & Conduction system of the Heart	01
33	Physiology of Lungs	01
34	Male reproductive system	01
35	Menstrual cycle	01
36	Mammary Gland & Hormones used in Reproductive system	01

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37	Endocrine system	01
38	Endocrine system	01
39	Clotting Mechanism & ABO blood Typing	01
40	Principal Metabolic Pathways	01
41	Lipolysis & proton pump mechanism	01
42	Krebs Cycle	01
43	Glycolysis	01
44	Iron content	01
45	Endocrine Glands	01
46	Normal Values - Blood	01
47	Normal Values – Respiratory & Renal	01
48	Normal Values – Digestive system	01
49	Normal Values –Cardiovascular system	01
50	Pulmonary Function test - Spirogram	01
	New added 2025-26	
51	CO2 Dissociation curve	01
52	O2 Dissociation curve	01
53	Normal Body Temperature	01
54	Synapse	01
	Total	54
	Biochemistry	
01	Vitamins	01
02	Retinol (Vitamin – A)	01
03	Cholecalciferol (Vitamin – D)	01
04	Tocopherol (Vitamin – E)	01
05	Phylloquinone (Vitamin – K)	01
06	Ascorbic Acid (Vitamin C)	01
07	Thiamin (Vitamin B1)	01
08	Riboflavin (Vitamin B2)	01
09	Niacin (Vitamin B3)	01
10	Pyridoxine (Vitamin B6)	01
11	Biotin (Vitamin B7)	01
12	Pantothenic acid (Vitamin B5)	01
13	Folic acid (B9)	01
14	Cyanocobalmin (Vitamin B12)	01
15	Vitamins deficiency diseases	01
16	Carbohydrates - Practical Chart	01
	Total	16
	Grand Total	70

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List of Wet Specimen

Sr. No.	Name of Specimen
01	Uterus with cervix
02	Spleen
03	Left Lung


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DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

DEPARTMENTAL LIBRARY BOOKS

Sr. No.	Acc. No.	Author Name	Book Name
01.	3074	Chatterjee's C.C.	Human Physiology I
02.	3073	Chatterjee's C.C.	Human Physiology II
03.	220	Chatterjee C.C.	Human Physiology Vol-1
04.	228	Chatterjee C.C.	Human Physiology Vol-2
05.	3072	Sembulingam K.	Essentials of Medical Physiology
06.	3071	Chaudhuri Sujit K.	Concise Medical Physiology
07.	3069	Guyton & hall	Textbook of Medical Physiology
08.	3070	Ross and Wilson	Anatomy & physiology in Health and Illness
09.	3075	Satyabarayana U.	Essentials Of Biochemistry
10.	1865	ShankaranRajan	The Mind
11.	3244	Dr. UshaKushwaha	Manual of Practical Physiology and Biochemistry
12.	3248	U. Satyanarayanna, U. Chakrapani	Biochemistry
13.	1215	Samuel Hahnemann	Organon of Medicine
14.	3389	G. K. Pal, Pravati Pal	Text book of Practical Physiology
15.	3422	Sembulingam K.	Essentials of Medical Physiology
16.	3395	Dorland	Dorland's Pocket Medical Dictionary
17.	3598	Gerard J. Tortora Bryan Derrickson	Tortora's Principles of Anatomy & Physiology
18.	3620	WM. H. Burt	Physiological Materia Medica
19.	3885	Vijaya D. Joshi	Physiology Prep Manual For Undergraduates.
20.	D344	P. S. Venkatachalam & L. M. Rebello	Nutrition for Mother and Child
21.	D345	Barbara Erickson	Heart Sounds and Murmurs – A Practical Guide
22.	4227	Dr. Mrs. A. D. Amondikar	1001 MCQ's in Physiology
23.	1906	Dr. Schuessler	Biochemistry Physicians quick reference
24.	2610	Dr. Rashmi Joshi	Practical Biochemistry for Homoeopaths

25.	3296	Michael Glynn	Hutchison's Clinical Methods
26.	4352	InduKhurana	Textbook of medical Physiology
27.	2590	Dr. Hitesh Shah	Cellular Biochemistry & Homoeopathy
28.	4406	VarunMalhotra	MCQ's in Physiology
New added 2024-25			
29.	4585	John NitinAshok	Chatterjee's C.C.Textbook of Human physiology - I
30.	4586	John NitinAshok	Chatterjee's C.C.Textbook of Human physiology - II
31.	4569	G. J. Tortora	Principals of Anatomy & Physiology
32.	4568	Reddy L P	Fundamentals of medical Physiology - I
33.	4584	Reddy L P	Fundamentals of medical Physiology - II
34.	4596	A. K. Jain	Textbook of Physiology Vol 1
35.	4597	A. K. Jain	Textbook of Physiology Vol 2
36.	4594	Jonh E. Hall & Michael E. Hall	Guyton & Hall. Textbook of Physiology
37.	4595	InduKhurana	Textbook of Medical Physiology
38.	4591	VarshneyBedi	Ghai's Textbook of Physiology- practical
39.	4587	Dr. A. K. Jain	Manual of practical Physiology
40.	4609	Michael Glynn William Drake	Hutchison's Clinical methods
41.	4599	T. S. Waghmare	OSCE and OSPE in Physiology
42.	4600	ArchnaDhok	OSPE in Biochemistry
43.	4598	T. S. Waghmare	OSCE and OSPE in Physiology
44.	4590	John NitinAshok	C.C.Chatterjee's manual of practical physiology

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List of chemicals and substances Available for Biochemistry

Sr. no.	Name	Sr. no.	Name
1.	Glucose – Dextrose	24.	Ammonia (NH ₃)
2.	Fructose	25.	Ammonium Oxalate ((NH ₄) ₂ C ₂ O ₄)
3.	Sucrose	26.	Potassium Oxalate (K ₂ C ₂ O ₄)
4.	Maltose	27.	Ammonium molybdate [(NH ₄) ₆ Mo ₇ O ₂₄]
5.	Lactos	28.	Phenolphthalein (C ₂₀ H ₁₄ O ₄)
6.	1 – Alpha Naphthol solution (C ₁₀ H ₈ O)	29.	Sodium Hypobromite (NaBrO)
7.	Sulfuric acid (Conc. H ₂ SO ₄)	30.	Picric Acid (C ₆ H ₃ N ₃ O ₇)
8.	Hydrochloric acid (Conc. HCL)	31.	FeCl ₃ (Ferric chloride)
9.	Sodium hydroxide (NaOH) 45% - 1, 10% - 1	32.	1% acetic acid (CH ₃ COOH) Glacial Acetic acid (CH ₃ COOH)
10.	Iodine solution	33.	Benzidine powder (C ₁₂ H ₁₂ N ₂)
11.	Nitric acid (conc. HNO ₃)	34.	Hydrogen peroxide (H ₂ O ₂)
12.	Sodium carbonate (2% Na ₂ CO ₃)	35.	Sulphur powder
13.	Lead Acetate solution	36.	Magnesium Sulfate (MgSO ₄)

	{Pb(C ₂ H ₃ O ₂) ₂ }		
14.	10% trichloroacetic acid (C ₂ HCl ₃ O ₂)	37.	Sodium Nitroprusside (C ₅ FeN ₆ Na ₂ O)
15.	5 - sulfosalicylic acid (C ₇ H ₆ O ₆ S)	38.	Benedicts reagent
16.	Absolute alcohol	39.	Barfoed's reagent
17.	Ammonium sulphate (powder) {(NH ₄) ₂ SO ₄ }	40.	Fehlings A solution
18.	Copper(II) sulphate (1% CuSO ₄)	41.	Fehlings B solution
19.	Sodium nitrite (1% NaNO ₂)	42.	Seliwanoff's reagent
20.	Formalin	43.	Millon's reagent
21.	10% Mercuric sulphate (HgSO ₄)	44.	Ninhydrine solution
22.	2% Barium Chloride (BaCl ₂).	45.	Chlorophenol red indicator
23.	Silver nitrate (AgNO ₃)	46.	Fouchet's reagent


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List of chemicals and substance Available for Hematology

Sr. no.	Name
1.	Surgical spirit
2.	EDTA (K3 salt)
3.	Hydrochloric Acid (N/10 HCL)
4.	Distilled water
5.	Anti A, B & D (Blood Group)
6.	Field Stain A
7.	Field Stain B
8.	RBC Diluting Fluid (Gower's reagent)
9.	WBC Diluting Fluid
10.	Capillary Tubes
11.	Filter paper


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Medical College & Hospital, Nimshirgaon**



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

HOMOEOPATHIC FACULTY

Academic Year 2024-25

Academic Activities / Webinar / Workshop / CME / Activities in Last 1 Year

Academic Planner / Advance Teaching Plan

Time Table Year Wise

01st January 2025 to 31st December 2025

DEPARTMENT OF
HUMAN PHYSIOLOGY & BIOCHEMISTRY

Sr. No.	Theory	Title	No of Hours Planned	No of Hours Conducted
1	Lectures	Lectures	336	369
2	Non Lectures	Practical / Clinics	160	166
		Tutorials	15	19
		IDA	10	17
		Seminar	10	19


H. O. D.
Physiology Dept.




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