



# **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 2023-24**

### **DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY**

#### **LIST OF STAFF**

1. **PROFESSOR & HEAD OF DEPARTMENT:**

➤ DR. CHOUGULE A. T. (G.C.E.H)

2. **LECTURER :**

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

3. **GUEST FACULTY :**

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

4. **LAB. TECHICIAN :**


➤ MRS. JYOTI P. YADAV

5. **LAB. ATTENDANT :**

➤ MR. TANAJI B. GAWADE

  
H. O. D.  
Physiology Dept.



  
Dr. Mrs. Shubhangi S. Magdum  
Principal  
Late Mrs. Housabai Homoeopathic  
Medical College & Hospital, Nimshirgaon

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



## 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 sq. mt.)	Existing Area (In sq. mt.)	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	90	179.64	968.4	1928.83

  
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## DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

### LIST OF EQUIPMENTS AS PER MSR

Sr. No	Items	Required	Available
1	<b>Physiology</b>		
1	Medical Microscope	25	25
2	Equipment for ESR estimation/ Westergren's pipette for ESR on stand	25 (with spare pipettes)	30
3	Haematocrit tubes	30 (with spares)	38
4	Auto Analyzer or Semi Auto Analyzer	01	02
5	Haemoglobinometer (Sahli)	25(with spare)	34
6	Haemocytometer	25(with spare)	35
7	Sphygmomanometer	25	25
8	Stethoscope	25	25
9	Clinical thermometer (Digital)	25	25
10	Knee hammer	25	25
11	Tuning forks to test hearing (32-10000 hzs)	01 set	01 set
12	Stethographs or pneumographs	05	05
13	Electrocardiograph (ECG Machine)	01	01
14	Electronic Stop Watches (1/10 sec.)	04	04
15	Glass Distillation (double) apparatus	01	01
16	Centrifuge (Medium speed)	02	02
17	Colorimeter (photo electric)	02	02
18	pH Meter (electric)	02	02
19	Colour perception lantern (Edridge Green)	01	02
20	Incubator	01	01

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21 *	Educational CD	As required	04
	DVD	As required	01
	Films – Transparence	As required	20
	Slides-	As required	100
	Models	As required	06
	Audio Visual Aids – OHP, Slide projector, LCD Projector	As required	03
22	Perimeter	03	03
23	Spirometer	01	01
24	Tonometer	01	01
25	Handgrip dynamometer	01	01
26	Bicycle Ergometer	01	01
Facility for Animal Experiments demonstration with the help of Audio-visual Aids.			Av Aids available
2	Number of additional items available – Computer – 01, Power Points – 25, Chemical for Haematology Practical – 11, specimen - 03		Available
3	<b>Biochemistry</b>		
1	Electronic/Monopan Balance	01	01
2	Centrifuge	01	01
3	Balance, chemical/ordinary	02	02
4	Water baths	02	02
5	Urinometer	25	25
6	Hydrometer (0.700 to 1.00)	02	04
7	Albuminometers	10	10
8	Glucometer	10	10
9	Thermometer	10	10
10	Colorimeter	01	01
11	Hot air oven 14"x14"x14" (Electric)	01	01
12	Double Distillation apparatus Glass	01	01
13	Centrifuge, medium speed, electric	01	01

  
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14	Glass ware like	As required	
	Pipette		24
	Beakers		36
	Burettes		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
15	pH meter	01	01
4	Number of additional items available – Test Tube – 150, Test Tube stand – 24, Test Tube Holder – 24, Glass bottles for chemicals – 54, Chemicals - 46	Available	
5	Total number of Charts	56	
6	Whether the laboratories for Physiology & Biochemistry are separate	yes	

  
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## DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

### \*List of Details of MSR point no. 21

<p>Educational CD and DVD</p> <p>Educational CD -</p> <ol style="list-style-type: none"> <li>1. Physiology 1 – Clinical examination - CVS, Respiratory system &amp; Digestive system.</li> <li>2. Physiology 2 – Spleen, Lymphatic system.</li> <li>3. Physiology 3 – Immunity</li> <li>4. Physiology 4 – Haematology</li> </ol> <p>Educational DVD–</p> <ol style="list-style-type: none"> <li>1. Miasms</li> </ol>	As required	05
<p>Films – Transparence –</p> <ol style="list-style-type: none"> <li>1. Connective tissue.</li> <li>2. Muscular tissue.</li> <li>3. Cardiac muscle.</li> <li>4. Nervous tissue.</li> <li>5. Epithelial tissue</li> <li>6. Erythropoiesis.</li> <li>7. Thyroid gland.</li> <li>8. Salivary gland.</li> <li>9. Respiratory system.</li> <li>10. Mechanism of respiration.</li> <li>11. Cardiac output.</li> <li>12. Blood volume.</li> <li>13. Blood Groups.</li> <li>14. Coagulation of Blood.</li> <li>15. Platelets.</li> <li>16. Hemoglobin</li> <li>17. Leukemia</li> <li>18. Cell &amp; cell organelles</li> <li>19. Spirogram</li> <li>20. ECG</li> </ol>	As required	20
<p>Models –</p> <ol style="list-style-type: none"> <li>1. Model of Internal Ear.</li> <li>2. Human ovum.</li> <li>3. Full term Placenta. New added 2023-24</li> <li>4. Muscle Contraction.</li> <li>5. Structure of Skin.</li> <li>6. Heart.</li> </ol>	As required	06

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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

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Films – Transparence –  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. New added 2023-24 4. Muscle Contraction. 5. Structure of Skin. 6. Heart.	As required	03

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22.	CSF
23.	Nutritional Disorders
24.	Body Temperature
25.	Digestive System – Stomach

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### DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

#### 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
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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## DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

### LIST OF CHARTS

Sr. No.	Name of Charts	Available
<b>REXIN CHARTS</b>		
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
<b>DIGITAL CHARTS</b>		
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	01


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	system	
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
	New added 2023-24	
44	Iron content	01
45	Endocrine Glands	01
	Total	45
	<b>Biochemistry</b>	
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
	New added 2023-24	
08	Riboflavin (Vitamin B2)	01
09	Niacin (Vitamin B3)	01
10	Pyridoxine (Vitamin B6)	01
11	Biotin (Vitamin B7)	01
	Total	11
	<b>Grand Total</b>	<b>56</b>

  
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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 refernce
24.	2610	Dr. Rashmi Joshi	Practical Biochemistry for Homoeopaths
25.	3296	Michael Glynn	Hutchison's Clinical Methods
26.	4352	Indu Khurana	Textbook of medical Physiology
27.	2590	Dr. Hitesh Shah	Cellular Biochemistry & Homoeopathy
28.	4406	Varun Malhotra	MCQ's in 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 <sub>3</sub> )
2.	Fructose	25.	Ammonium Oxalate (NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub> )
3.	Sucrose	26.	Potassium Oxalate (K <sub>2</sub> C <sub>2</sub> O <sub>4</sub> )
4.	Maltose	27.	Ammonium molybdate {(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> }
5.	Lactos	28.	Phenolphthalein (C <sub>20</sub> H <sub>14</sub> O <sub>4</sub> )
6.	1 – Alpha Naphthol solution (C <sub>10</sub> H <sub>8</sub> O)	29.	Sodium Hypobromite (NaBrO)
7.	Sulfuric acid (Conc. H <sub>2</sub> SO <sub>4</sub> )	30.	Picric Acid (C <sub>6</sub> H <sub>3</sub> N <sub>3</sub> O <sub>7</sub> )

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8.	Hydrochloric acid (Conc. HCL)	31.	FeCl <sub>3</sub> (Ferric chloride)
9.	Sodium hydroxide (NaOH) 45% - 1, 10% - 1	32.	1% acetic acid (CH <sub>3</sub> COOH) Glacial Acetic acid (CH <sub>3</sub> COOH)
10.	Iodine solution	33.	Benzidine powder (C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> )
11.	Nitric acid (conc. HNO <sub>3</sub> )	34.	Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )
12.	Sodium carbonate (2% Na <sub>2</sub> CO <sub>3</sub> )	35.	Sulphur powder
13.	Lead Acetate solution {Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> }	36.	Magnesium Sulfate (MgSO <sub>4</sub> )
14.	10% trichloroacetic acid (C <sub>2</sub> HCl <sub>3</sub> O <sub>2</sub> )	37.	Sodium Nitroprusside (C <sub>5</sub> FeN <sub>6</sub> Na <sub>2</sub> O)
15.	5 - sulfosalicylic acid (C <sub>7</sub> H <sub>6</sub> O <sub>6</sub> S)	38.	Benedicts reagent
16.	Absolute alcohol	39.	Barfoed's reagent
17.	Ammonium sulphate (powder) {(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> }	40.	Fehlings A solution
18.	Copper(II) sulphate (1% CuSO <sub>4</sub> )	41.	Fehlings B solution
19.	Sodium nitrite (1% NaNO <sub>2</sub> )	42.	Seliwanoff's reagent
20.	Formalin	43.	Millon's reagent
21.	10% Mercuric sulphate (HgSO <sub>4</sub> )	44.	Ninhydrine solution
22.	2% Barium Chloride (BaCl <sub>2</sub> ).	45.	Chlorophenol red indicator
23.	Silver nitrate (AgNO <sub>3</sub> )	46.	Fouchet's reagent

  
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### DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

#### 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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