



**Sou. Devibai Narayandas Chhabada
Rural Education Society,
Satara**

Sou. Devibai Narayandas Chhabada Rural Education Society, Satara's
MAHALAXMI HOMOEOPATHIC MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTER

DEPARTMENT OF HUMAN PHYSIOLOGY & BIOCHEMISTRY.

Subject Code:

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

SYLLABUS DISTRIBUTION A/Y: 2025 – 2026/27

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|-----|-----------------------|-----------|---|
| 01. | Dr. Shivprasad A Mane | Theory | a) Respiratory System b) Cardio vascular system c) Endocrinology d) Renal Physiology e) General Physiology |
| | | Practical | a) Hematology, Clinical |
| 02. | Dr. Sujata Gaikwad | Theory | a) Bio-Physical Sciences b) CNS c) Reproductive system d) Vitamins & Minerals e) Special Senses |
| | | Practical | a) Clinical & Biochemistry |
| 03. | Dr. Mayuri Dubal | Theory | a) Body Fluid & Immune Mechanism b) Skin & The Integumentary System c) Nerve Muscular Physiology d) Digestive System |
| | | Practical | a) Clinical, Hematology, OPD |



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Subject Code: Horn UG – PB I B.H.M.S. (2022)

Semester Wise Distribution of Theory, Practical

Clinical Physiology & OPDs

A/Y: 2025 —2026/27

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|-----|---|-----------|---|
| 01. | SEMESTER – 1 PA - I (Viva) TT – 1 | Theory | <ul style="list-style-type: none"> a) General physiology b) Bio Physics Science c) Skin & The integumentary System d) Body Fluid & Immune Mechanism e) Nerve Muscles Physiology |
| | | Practical | <ul style="list-style-type: none"> a) Case Taking & Approach to Patient b) General concept of examination c) Hematology d) Examination of muscles, joints |
| 02. | SEMESTER –2 PA – 2 (Viva) TT – 2 | Theory | <ul style="list-style-type: none"> a) Cardiovascular System b) Respiratory & Environmental Physiology c) Central Nervous System d) Endocrinology |
| | | Practical | <ul style="list-style-type: none"> a) Cardio-Vascular System b) Respiratory System c) Nervous System- Clinical Examination d) Special Senses- Clinical Examination e) Reproductive System – Diagnosis of pregnancy f) OPD |
| 03. | SEMESTER -3 PA – 3 (Viva) UE | Theory | <ul style="list-style-type: none"> a) Reproductive System b) Special Senses c) Digestion System & Nutrition d) Renal Physiology e) Bio-Chemistry |
| | | Practical | <ul style="list-style-type: none"> a) Gastrointestinal System- Clinical Examination b) OPD c) Biochemistry |



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Advance Teaching Plan — Dr. Mane Shivprasad A. (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 2025 | Foundation Course | Foundation course | 1 |
| 2 | December 2025 | Foundation Course | Foundation course | 1 |
| | | | Describe the composition and functions of blood Components | 3 |
| | | | Describe the origin, Forms, Variations and functions of plasma Protein | 2 |
| | | | Describe <i>and</i> discuss the <i>synthesis</i> and <i>functions</i> of Haemoglobin | 3 |
| 3 | January 2026 | Body fluids & Immune mechanism (35) | 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 2026 | Body fluids & Immune mechanism (35) | First Periodical Assessment (PA-I) | 5 days |
| | | | 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 2026 | Body fluids & immune mechanism (35) | Explain the role of lymphoid tissues in immune Responses | 3 | |
| | | | Define and classify different types of immunity. | 2 | |
| | | | Describe the development of immunity and its Regulation | 2 | |
| | | Cardiovascular System (20) (Semester 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 2026 | Cardiovascular System (20) | First Term Test (TT) | 10 days | |
| | | | 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 2026 | Cardiovascular System (20) | Commencement of 2 nd Term | | |
| | | | Describe the physiology of electrocardiogram (E.C.G) | 2 | |
| | | Summer vacation | Discuss arrhythmia, heart block and myocardial Infarction | 1 | |
| | | | Describe haemodynamics of circulatory system | 1 | |
| 8 | June 2026 | Cardiovascular System (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 | |
| | | Endocrinology (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 2026 | Endocrinology (30) | Second Periodical Assessment (PA-II) | 5 days | |
| | | | Discuss the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Pituitary gland | 8 | |
| 10 | August 2026 | Endocrinology (30) | Describe the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Thyroid gland | 8 | |
| | | | Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Para Thyroid gland | 4 | |

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| 11 | September 2026 | Endocrinology (30) | Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Adrenal gland | 6 |
| | | | Explain the synthesis, secretion, Transport, Physiological action, regulation & effect of altered secretion of Pancreatic Gland | 4 |
| | | | Describe the physiology of Thymus & Pineal Gland | 1 |
| | | | Describe the Physiology of Local hormones | 1 |
| 12 | October 2026 | Renal Physiology (20) Winter Vacation | Second Term Test (TT-II) | 10 days |
| | | | Describe structure & functions of the kidneys. | 2 |
| 13 | November 2026 | Renal (Physiology) Winter Vacation | Describe structure & functions of the kidneys. | 2 |
| | | | Explain the role of renin —angiotensin system | 2 |
| 14 | December 2026 | Renal Physiology (20) | Third Periodical <i>ffl</i> essment (PA-III) | 5 days |
| | | | Describe the mechanism of urine formation | 3 |
| | | | Describe the process of filtration, secretion & re-absorption in kidney | 2 |
| 15 | January 2027 | Renal Physiology (20) | Describe the concentration and diluting mechanism in the kidney | 2 |
| | | | Describe the renal regulation of acid — base Balance | 2 |
| | | | Describe the physiology of micturition | 3 |
| | | | Describe the Kidney function test | 2 |
| | | | Revision | 3 |
| 16 | February 2027 | | Revision | 12 |
| 17 | March 2027 | | Revision | 12 |
| 18 | April 2027 | | University exam | |




PRINCIPAL
 Mahalaxmi Homoeopathic Medical College
 Hospital and Research Center Raigaon, Satara