

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE	
Board of Studies in Home Science	
UG First Year Programme	
Semester	I
Title of Paper	Credits
I) Basic Principles of Human Physiology (Theory)	2
From the Academic Year	2024-2025

Sr. No.	Heading	Particulars
1	Description the course : Including but Not limited to :	Basic Principles of Human Physiology (Theory) 1. To impart knowledge and facilitate the development of skills and techniques in the basic area of Home Science required for personal, professional and community advancement. 2. To inculcate in students, values and attitudes that enhance personal, life skills and family growth and to sensitize them to various social issues for the development of a humane society. 3. To promote in students a scientific temper and competencies in research to enable contributions to the national and international knowledge base in Home Science and allied fields. 4. In sum, to empower our students such that they can effect positive changes at multiple levels.
2	Vertical :	Major/Minor/√ Open Elective /Skill Enhancement / Ability Enhancement/Indian Knowledge System
3	Type :	Theory
4	Credit:	2 credits (1 credit = 15 Hours for Theory)
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: (List some of the course objectives) 1. Understand the basics of human anatomy and physiology; and the structure and functions of various organs of the body. 2. Comprehend newer and applied concepts of human physiology. 3. Develop the skills of application of the principles of physiology in health and disease management.	

8	Course Outcomes: (List some of the course outcomes) 1. Gain the basic knowledge of human anatomy and physiology. 2. Understand the various interactions between physiological processes in the body. 3. Be able to define, explain and relate the structure and functions of cells, tissues and organ systems of the human body. 4. Have the skills to apply the concepts of physiology to health.
9	Modules:- Per credit One module can be created
	Module 1:
	Introduction to Human Body • Organs, tissue and cells, cell structure, organelles and their functions. Cardiovascular System • Blood Composition, functions, blood groups • Heart – Structure, blood vessels, cardiac cycle • Circulation of blood, blood pressure, hypertension and heart attack. Lymphatic System • Structure and function of lymph, lymph vessels and nodes. • Role of lymphatic system in disease and immunity. Digestive System • Structure and functions of parts of digestive system – stomach, liver, gall bladder, pancreas • Digestion and absorption of proteins, fats and carbohydrates. • Endocrine System • Overview of endocrine glands and their functions
	Module 2:
	Nervous System • Structure and function of neurons, brain and spinal cord. • Hypothalamus and its functions. Skeletal System • Structure, formation and types of bones. Respiratory System • Structure and functions of respiratory organs. • Role of lungs in exchange of gases. Renal and Urinary System • Structure and function of kidney • Factors affecting urine formation and excretion. Reproductive System • Overview of structure and function of male and female reproductive system.

10	Text Books: 1. 2. 3. 4.																																								
11	Reference Books: • Vaz, M., Raj, T. (2016). Guyton & Hall Textbook of Medical Physiology - E-Book: A South Asian Edition. India: Elsevier Health Sciences. • Hall, J. E. (2015). Guyton and Hall Textbook of Medical Physiology E-Book. United Kingdom: Elsevier Health Sciences • Makari, H. K., Gurumurthy, H., Sowmya, S. V. (2009). A Textbook of Human Physiology. India: I.K. International Publishing House Pvt. Limited. • Basics of Medical Physiology for Nursing Students. (2019). India: Repro India Limited. • Fundamentals of Anatomy and Physiology: For Nursing and Healthcare Students. (2020). United Kingdom: Wiley. • Shankar, N. D., Vaz, M. (2017). Textbook of Anatomy and Physiology for Nurses - E-Book. India: Elsevier Health Sciences																																								
12	Internal Continuous Assessment: 40%	External, Semester End Examination 60% Individual Passing in Internal and External Examination																																							
13	Continuous Evaluation through: Quizzes, Class Tests, presentation, project, role play, creative writing, assignment etc.(at least 3)	<table><tr><th colspan="2">CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)</th><th>Marks</th></tr><tr><td colspan="2">Class participation/Quiz/Review of literature and guided discussions/Q&A sessions</td><td>20</td></tr><tr><td colspan="2">Class tests/PPT Presentations and relevant planned assignments</td><td>20</td></tr><tr><td colspan="2">Total Marks for Internal Assessment</td><td>40</td></tr><tr><th colspan="3">SEMESTER-END THEORY EXAMINATION</th></tr><tr><th colspan="3">All questions are compulsory with internal choice.</th></tr><tr><td colspan="2">Question 1 – Unit 1</td><td>12</td></tr><tr><td colspan="2">Question 2 – Unit 2</td><td>12</td></tr><tr><td colspan="2">Question 3 – Unit 3</td><td>12</td></tr><tr><td colspan="2">Question 4 – Unit 4</td><td>12</td></tr><tr><td colspan="2">Question 5 – From Multiple Units</td><td>12</td></tr><tr><td colspan="2">Total Marks for Semester End Examination</td><td>60</td></tr></table> Evaluation for Theory (2 Credits for 50 Marks) <table><tr><th colspan="2">CONTINUOUS INTERNAL EVALUATION</th><th>Marks</th></tr></table>	CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)		Marks	Class participation/Quiz/Review of literature and guided discussions/Q&A sessions		20	Class tests/PPT Presentations and relevant planned assignments		20	Total Marks for Internal Assessment		40	SEMESTER-END THEORY EXAMINATION			All questions are compulsory with internal choice.			Question 1 – Unit 1		12	Question 2 – Unit 2		12	Question 3 – Unit 3		12	Question 4 – Unit 4		12	Question 5 – From Multiple Units		12	Total Marks for Semester End Examination		60	CONTINUOUS INTERNAL EVALUATION		Marks
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14		(planned as per the need of the course)	
		Class participation/Quiz/Review of literature and guided discussions/Q&A sessions	10
		Class tests/PPT Presentations and relevant planned assignments	10
		Total Marks for Internal Assessment	20
		SEMESTER-END THEORY EXAMINATION	
		All questions are compulsory with internal choice.	
		Question 1 – Unit 1	10
		Question 2 – Unit 2	10
		Question 3 – From Multiple Units	10
		Total Marks for Semester End Examination	30
		Evaluation for Practical (2 Credits for 50 Marks)	
		CONTINUOUS INTERNAL EVALUATION (planned as per the need of the course)	Marks
		Class Participation/Internal Assessment during laboratory work/experiments/practical tasks	10
		Journal/Portfolio/Presentation/Reports/Case papers/Assignments	10
		Total Marks for Internal Assessment	20
		SEMESTER-END PRACTICAL EXAMINATION	
		All questions are compulsory with internal choice.	
		Question 1 - Unit 1	10
		Question 2 - Unit 2	10
		Journal/Portfolio/Report/Viva-Voce	10
		Total Marks for Semester End Examination	30

14	Format of Question Paper: for the final examination	
	THEORY EXAMINATION	
	Marks: 30	1 Hour
	Upto 50% choice to be given within each Question.	
	Questions may be divided into sub questions as a, b, c....	
	Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 1 mark or less	
	Q1 Unit 1	10 marks
Q2 Unit 2	10 marks	

Q3 Mix of Unit 1 and 2	10 marks
TOTAL	30 Marks

Marks: 60	2 Hours
Up to 50% choice to be given within each Question. Questions may be divided into sub questions as a, b, c.... Allocation of marks depends on the weightage of the topics in the units; no sub-question should be of 2 marks or less	
Q1 Unit 1	12 marks
Q2 Unit 2	12 marks
Q3 Unit 3	12 marks
Q4 Unit 4	12 marks
Q5 Mix of all units	12 marks
TOTAL	60 Marks

PRACTICAL EXAMINATION

Marks: 30	2 Hours
Q1 Unit 1	10 Marks
Q2 Unit 2	10 Marks
Journal/Portfolio/Report/Viva-Voce	10 Marks
TOTAL	30 Marks

Sign of the BOS
Chairman
Name of the Chairman
Name of the BOS

Sign of the
Offg. Associate Dean
Name of the Associate Dean
Name of the Faculty

Sign of the
Offg. Dean
Name of the Offg. Dean
Name of the Faculty