

AC – 20/05/2025

Item No. – 6.18 (N) (1b) Sem. III

As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE Vertical 3

Faculty of Science

Board of Studies in Biochemistry

Second Year Programme

Semester

III

Title of Paper

Credits

Heart Health

2

From the Academic Year

2025-26

Title of Paper: Heart Health

Sr. No.	Heading	Particulars
1	Description the course : Including but Not limited to :	This course introduces students with very basic understanding of the Heart and its related disorders and the treatment options available. This is an attempt to generate awareness about the health of an individual
2	Vertical :	Open Elective
3	Type :	Theory
4	Credit:	2 credits (1 credit = 15 Hours for Theory or 30 Hours of Practical work in a semester)
5	Hours Allotted :	30 Hours
6	Marks Allotted:	50 Marks
7	Course Objectives: 1. This course aims to introduce learners to the basic knowledge of the role of human cardiovascular System focusing on the Heart. 2. This course also aims to introduce the basic understanding and treatment options of the heart disorders	
8	Course Outcomes: 1. The learner will be able to understand and describe the functions and role of Heart in the cardiovascular system of human body. 2. The learner will be able to understand and explain different disorders of heart and the basic treatment modalities	

9	Modules:- 2, Credits: 2	
	Module 1: Overview of Heart function	
	• Introduction • Overview of Cardiovascular system • Heart health - Factors affecting heart health • Management of healthy heart/Preventive measures	
	Module 2: Disorders and Nutrition for Heart disorders	
	• Causes, symptoms and treatment for different heart disorders • Diagnosis of heart disorders: Importance of ECG, Stress test, Angiography • Blood tests and markers in heart disorders • Diet for healthy heart	
10	Text Books: 1. Principles of Biochemistry by Lehninger, Albert L., Nelson David and Cox, Michael M.; CBS publishers. 2. Harpers illustrated biochemistry by Murray, Robert K. <i>etal.</i> ; Mc Graw Hill.	
11	Reference Books: 1. Text book of medical physiology by Guyton, Arthur C. and Hall, John E.; Harcourt Brace & Company Asia Pvt Ltd. 2. Tortora's Principles of Anatomy and Physiology, 16th Edition, John Wiley & Sons, 2018	
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)	

14 **Format of Question Paper:** for the final examination

Evaluation for Open Elective Course: 50 Marks each

Course 1 – 50 marks

The evaluation of these courses would include continuous evaluation (internal assessment) and Semester end examinations (External assessment). The evaluation pattern would be as follows:

Internal assessment of each course: 20 marks.

- a. Class test 1: **10 marks**
- b. Quizzes, presentation, project, role play, creative writing, assignment etc. **5 marks**
- c. Attendance and active participation in academic and co-curricular activities: **5 marks.**

External assessment of each course: – 30 Marks.

- Duration: **1 Hour per course**
- Theory question paper pattern:

Question	Based on	Options	Marks
Q.1	Unit I	Any 5 out of 7 / Any 2 out of 3	10
Q.2	Unit II	Any 5 out of 7 / Any 2 out of 3	10
Q3.	Unit I and II	Any 5 out of 7 / Any 2 out of 3	10
		Total	30

Sd/-
Sign of the BOS
Chairman
Dr. Samidha
Pawaskar
Coordinator
BOS in Biochemistry

Sd/-
Sign of the
Offg. Associate Dean
Dr. Madhav R. Rajwade
Faculty of Science &
Technology

Sd/-
Sign of the Offg. Dean
Prof. Shivram S. Garje
Faculty of Science &
Technology