As Per NEP 2020

University of Mumbai



Syllabus for Basket of OE				
Board of Studies in Biochemistry				
UG First Year Programme				
Semester: Second				
Title of Paper	Credits 2/ 4			
I) Heart Health	2			
From the Academic Year	2024-2025			

Course Name: Heart Health

Sr. No.	Heading	Particulars			
1	Description the course :	This course introduces the learner about the basic knowledge about heart health. This is an attempt to			
	Including but Not limited to :	generate awareness about the health of an individual			
2	Vertical :	Major/Minor/(Open Elective √) /Skill Enhancement / Ability Enhancement/Indian Knowledge System (Choose By √)			
3	Type:	Theory			
4	Credit:	2 credits / 4 credits (1 credit = 15 Hours for Theory)			
5	Hours Allotted :	30 Hours			
6	Marks Allotted:	50 Marks			
7	Course Objectives:				
	 This course aims to introduce learners to the basic knowledge of role of human circulatory system focusing on the heart and related disorders 				
	2. This course also aims to introduce the basic understanding of the heart related disorders				
8	Course Outcomes:				
	1. The learner will be able to understand and describe the functions and role of heart in the circulatory system of human body.				
	2. The learner will be able to understand and explain the basic types of heart disorders and the basic treatment modalities and also will understand the role of nutrition in maintaining good heart health				

9 Title of OE course: Heart Health

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. etal.; 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

Sign of the BoS Coordinator Dr. Samidha M. Pawaskar Faculty of Science & Technology Sign of the Offg. Associate Dean Dr. Madhav R. Rajwade Faculty of Science & Technology Sign of the Offg. Dean Prof. Shivram S. Garje Faculty of Science & Technology