

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) Liver Health	2
From the Academic Year	2024-2025

Course Name: Liver Health

Sr. No.	Heading	Particulars
1	Description the course : Including but Not limited to :	This course aims to introduce learners to the basic knowledge of the role of the human liver. This is an attempt 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: 1. This course aims to introduce learners to the basic knowledge of the role of the human liver. 2. This course also aims to introduce the basic understanding of the Liver related disorders	

8	Course Outcomes: 1. The learner will be able to understand and describe the functions and role of liver in the human body. 2. The learner will be able to understand and explain the basic treatment modalities and also will understand the role of nutrition in maintaining good Liver health
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9	Title of OE course: Liver Health Modules:- 2, Credits: 2
	Module 1: Overview of Liver function
	• Introduction • Overview of the liver function • Liver health - Factors affecting liver health • Management of healthy liver/Preventive measures
	Module 2: Disorders and Nutrition for Liver disorders • Causes, symptoms and treatment for different liver disorders • Diagnosis of liver disorders • Blood tests and markers in liver disorders • Diet for healthy liver
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	<table> <tr> <td data-bbox="212 1913 857 1995">Internal Continuous Assessment: 40%</td><td data-bbox="857 1913 1469 1995">External, Semester End Examination: 60%</td></tr> </table>	Internal Continuous Assessment: 40%	External, Semester End Examination: 60%
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		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 <u>Open Elective Course</u>: 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: <table><tr><td>Question</td><td>Based on</td><td>Options</td><td>Marks</td></tr><tr><td>Q.1</td><td>Unit I</td><td>Any 5 out of 7 / Any 2 out of 3</td><td>10</td></tr><tr><td>Q.2</td><td>Unit II</td><td>Any 5 out of 7 / Any 2 out of 3</td><td>10</td></tr><tr><td>Q3.</td><td>Unit I and II</td><td>Any 5 out of 7 / Any 2 out of 3</td><td>10</td></tr><tr><td></td><td></td><td>Total</td><td>30</td></tr></table>		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
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