As Per NEP 2020

AC: 20/04/2024 Item No: 6.6 Sem. I (11b)

Aniversity of Mumbai



Syllabus for Basket of OE		
UG First Year Programme		
Semester	I	
Title of Paper	Credits 2/ 4	
Medicines in Every Day Life	2	
	2	
	2	
	2	
From the Academic Year	2024-2025	

Semester I Medicines in Every Day Life

Sr No	Heading	Particulars		
1	Description the Course	The course aims to provide the information on commonly used		
		medicines		
2	Vertical	Open Elective (OE)		
3	Туре	Theory		
4	Credits	2 Credits (1 Credit = 15 Hours for Theory)		
5	Hours Allotted	30 Hours (Theory 1 Credit = 15 Hours)		
6	Marks Allotted	50 Marks		
7	Course Objectives (CO)			
	CO 1. Introduce the fundamental concept of medicines and their significance in healthcare			
	CO 2. Familiarize with key terminologies related to pharmacology and drug development			
	CO 3. Recognize the roles and responsibilities of regulatory authorities in ensuring drug safety			
	and efficacy			
	CO 4. Differentiate between p	e between prescription and over-the-counter medicines		
	CO 5. Gain insight into various routes of drug administration and dosage forms			
8	Course Outcomes (OC) Students will be able to-			
	OC 1 Define the key attributes of a medicinal drugs			
	OC 2 Differentiate between various medicinal terms			
	OC 3 Describe the roles of regulatory authorities like FDA, FSSAI			
	OC 4 Explain the routes of drug administration			
	OC 5 Make logical purchase of over-the-counter drugs and know the process of getting prescribed drug			

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Modules

Semester	Module	Description	Credits
Ι	I	Introduction to Medicines	
	II	Overview and Administration of Medicines	

MODULE	DESC	CRIPTION		
Ι	1	Introduction to Medicines (15L)		
	1.1	Definition, importance and history of medicines (Drugs) (02L)		
	1.2	Requirement of an ideal drug, Generic name, Brand name (03L)		
	1.3	Important Terms in Medicinal Chemistry: Pharmacon, Pharmacophore, Produ		
		Half-life efficacy (03L)		
	1.4	Brief Idea about the Terms: Drug Receptors, Drug potency, Bioavailability,		
		Pharmacokinetics, Pharmacodynamics, Drug toxicity, Drug addiction (05L)		
	1.5	Brief idea about important pharma industries and regulatory authorities in India (02L)		
II	2 0 2.1	Overview and Administration of Medicines (15L) Brief Overview about Medicines used in Daily Life:		
		Antipyretics (Drugs against fever), Antihypertensive (Drugs for controlling		
		high blood pressure), Antidiabetic (Drugs controlling diabetes), Antibacterial		
		(Drugs against bacterial infections), Antifungal (Drugs against fungal infections),		
		Antituberculosis (Drugs used in treating tuberculosis), Drugs for Skin diseases (Drugs		
		against melasma, Acne) (09L)		
	2.2	Concepts of sedatives, hypnotics and anesthetics (02L)		
	2.3	Concepts of over-the-counter and prescribed drugs (02L)		
	2.4	Routes of drug administrations (02L)		

Reference Books

- 1. Medicinal Chemistry, D. Sriram, P. Yogeshwari, 2nd Edition, Pearson
- 2. Medicinal Chemistry, William O. Foye
- 3. Burgers Medicinal Chemistry and Drug Discovery by Manfred E. Wolf
- 4. Introduction To Medicinal Chemistry by Graham Patrick
- 5. An Introduction to Drug Design by S S Pandeya and J R Dimmock

QUESTION PAPER PATTERN

Theory	Credit	No. of Hours	Marks
	02	30	50

Internal Continuous Assessment: 40% (20 Marks)	External, Semester End Examination: 60% Individual Passing in Internal and External Examination (30 Marks)	
Continuous Evaluation through: Quizzes, Class Tests, presentation, project, role play, creative writing, assignment etc.(at least 3)	As per the Format of Question Paper	
Format of Question Paper: for the final examination	tion	

Question Paper Pattern for 30 Marks:

Semester End Theory Examination:

- 1. Duration These examinations shall be of **one-hour** duration.
- 2. Theory question paper pattern:
 - a. There shall be **02** questions, Question 1 carries 15 Marks based on Unit I and Question 2 carries 15 Marks based on Unit II.
 - b. All questions shall be compulsory with internal choice within the questions.

Question	Particulars	Marks	Questions Based on
Q.1	A) Objective Questions 06 out of 10	06	Unit I
	B) Subjective Questions 03 out of 05	09	
Q.2	A) Objective Questions 06 out of 10	06	Unit II
	B) Subjective Questions 03 out of 05	09	
	Total	30	

Sign of the Dr. Sunil Patil Co-ordinator, Board of Studies in Chemistry Sign of the Prin. (Dr.) Madhav Rajwade Offg. Associate Dean, Faculty of Science and Technology Sign of the Prof. (Dr.) Shivram Garje Offg. Dean, Faculty of Science and Technology