As Per NEP 2020

University of Mumbai



Syllabus for Basket of minor				
UG First Year Programme				
Semester - II				
Title of Paper	Credits 2/ 4			
I) MN1: Zoology- Common Human Diseases	2			
II)				
III)				
From the Academic Year	2024-25			

MN1: Zoology- Common Human Diseases

Sr. No.	Heading	Particulars	
1	Description the course:	This course delves into developing basic understanding of common human diseases, its diagnosis and management.	
2	Vertical :	Major/ Minor ✓ /Open Elective /Skill Enhancement / Ability Enhancement/Indian Knowledge System (Choose By √)	
3	Type :	Theory	
4	Credit:	2 credits (1 credit = 15 Hours for Theory in a semester)	
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5	Hours Allotted :	30 Hours	
6	Marks Allotted:	50 Marks	
7	Course Objectives:		
	The objectives of this course are to:		
	CO 1. Foster in learners a comprehensive understanding of the common human diseases, their causes, symptoms and precautions.		
	CO 2. Equip learners with the knowledge of prevention and management of common diseases.		
	CO 3. Acquaint learners to the concept of hygiene and its role in disease prevention.		
8	Course Outcomes:		
	Upon completion of the course, the learners should be able to:		
	OC 1. Comprehend the causes, symptoms and precautions of common human diseases.		
	OC 2. Develop skill for prevention and management of common diseases.		
	OC 3. Analyze the connection between hygiene and common diseases.		

MN1: Zoology-Common Human Diseases

9	Module 1: Communicable and noncommunicable diseases	15hr
	1.1 General introduction: Disease: Definition, classification (infectious vs non-infectious, chronic vs acute), Importance of studying common human diseases.	01hr
	1.2 Communicable/ Infectious Diseases: (Mode of transmission, diagnosis / symptoms and preventions)	07hr
	1.2.1 Bacterial: Cholera, Tuberculosis	
	1.2.2 Viral: Influenza (flu), COVID-19, Dengue	
	1.2.3 Fungal: Candidiasis	
	1.2.4 Protozoan: Malaria, Entamoeba	
	1.2.5 Helminthes: Ascariasis	
	1.2.6 Sexually transmitted infections: Gonorrhea, HIV/AIDS	
	1.3 Non-Communicable Diseases: (causes, signs / symptoms, and prevention and management)	07hr
	1.3.1 Cardiovascular diseases: Stroke, hypertension and hypotension.	
	1.3.2 Anaemia: Definition and types	
	1.3.4 Cancers: Breast cancer, Lung cancer and Colon cancer.	
	1.3.5 Chronic respiratory diseases: Asthma	
	1.3.6 Diabetes: Type 1 and type 2	
	Module 2: Concept of hygiene and prevention of common diseases	15hr
	2.1 Concept of hygiene	07hr
	2.1.1 Role of hygiene in prevention of communicable diseases.	
	2.1.2 The importance of hand washing in disease prevention.	
	2.1.3 Personal hygiene (bathing, showering, oral hygiene)	
	2.1.4 Cough and sneeze etiquette (covering your mouth and nose)	
	2.1.5 Food hygiene (safe food handling and storage)	
	2.1.6 Hygiene in public places (using public restrooms, handling money)	
	2.2 Risk factors and lifestyle changes for prevention	
	2.2.1 Healthy habits for disease prevention (physical activity, healthy eating)	
	2.2.2 Strengthening immune system through healthy habits (sleep, diet, exercise)	
	2.3 Emerging and Re-emerging Diseases	
	2.3.1 New diseases or existing diseases with increased incidence	
	2.3.2 Factors contributing to emergence/re-emergence (travel, climate change, antibiotic resistance)	
	Examples (SARS, Zika virus, antibiotic-resistant bacteria)	
	2.4 Vaccinations and its role in disease prevention (importance of vaccination schedules)	
	Suggested assignments for internal assessment: Submission of project report on pulse rate or BMI or any topic related to the human diseases. Submission of project report on vital lung capacity of 20 volunteers.	

10. Text Books:

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11. Reference Books:

- 1. Bean, W. B. (1961). The Merck Manual of Diagnosis and Therapy. Archives of Internal Medicine, 108(6), 968-969.
- 2. Topol, E. J., & Teirstein, P. S. (2015). Textbook of interventional cardiology E-Book. Elsevier Health Sciences.
- Fry, J. (2012). Common diseases: their nature incidence and care. Springer Science & Business Media.
- 4. Litin, S. C. (Ed.). (2015). Mayo Clinic A to Z Health Guide: Everything You Need to Know about Signs, Symptoms, Diagnosis, Treatment and Prevention. Time Home Entertainment, Incorporated.
- 5. Tamparo, C. D. (2016). Diseases of the human body. FA Davis.
- 6. Thakur, J. S. (2015). Public health approaches to non-communicable diseases. Wolters kluwer india Pvt Ltd.
- 7. Puri, A. S. (2007). How to Prevent Common Diseases: A Comprehensive Guide to Detect, Prevent and Combat Common Fatal Diseases. Sterling Publishers Pvt. Ltd.
- 8. Jamison, D. T., Breman, J. G., Measham, A. R., Alleyne, G., Claeson, M., Evans, D. B., ... & Musgrove, P. (Eds.). (2006). Disease control priorities in developing countries.
- Gleeson, M. (2020). Eat, Move, Sleep, Repeat: Diet & Fitness for Living Long & Healthy. Meyer & Meyer Sport.
- 10. Mayo Clinic Healthy Heart for Life! The Mayo Clinic Plan for Preventing and Conquering Heart Disease. (2012). United States: Time Home Entertainment Incorporated.
- 11. Nutrition and Immunity. (2019). Germany: Springer International Publishing.

12	Internal Continuous Assessment: 40% (20 marks)	External, Semester End Examination: 60% Individual Passing in Internal and External Examination (30 marks)				
13	Continuous Evaluation through:					
	Quizzes, Class Tests, presentation,	As per paper pattern 01.00 hour				
	project, role play, creative writing,					
	assignment etc.(at least 3)					
14	Format of Question Paper: for the final examination					
	Time 1.0 Hr					
	Q.1. Questions in the form of MCQ and answer in one sentence. (Overall equal weightage for both modules I & II)					
	Q1a. Five questions in the form of MCQ (5 marks)					
	Q1b. Five questions of answer in one line (5 marks)					
	Q.2 Answer any one of the following (based on Module I)					
	a.					
	b.					
	Q.3. Answer any one of the following (based on Module II)					
	a.					
	b.					
	Q4. Write short note any two of the four from module I and II (equal weightage)					
	a.					
	b.					
	c.					
	d.					

Sign of the BOS Coordinator Dr. Vaishali Somani BOS in Zoology 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