

Lecture Plan

Name of the College: Government College of Arts, Science and Commerce. Sanquelim - Goa

Name of Faculty: Ms. Mithali Halarnkar

Subject: Zoology

Paper code: ZOO-211 Vector Borne Diseases

Program: S.Y. BSc

Division: A

Academic year: 2024 - 25

Semester: III

Total Lectures: 30

Course Objectives:

1. Acquainting with common tropical vector-borne diseases and vector control strategies.
2. Understanding the host-pathogen interaction, transmission, symptoms of vector borne diseases.
3. Introduction of various Insect vectors to the Learners.
4. Develop competencies in responding to vector borne diseases.

Expected Course Outcome: At the end of the course, students will be able to:

1. List the various major vector-borne diseases.
2. Describe the symptoms of the major vector-borne diseases and control measures of the vectors.
3. Choose effective responses against vector borne diseases.
4. Assess the severity of vector borne disease outbreaks.

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assignment	ICT Tools	Reference books
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June	26/06/2024	30/06/2024	02	Introduction to vector borne diseases		Powerpoint presentation, Google classroom, you tube,	S. R. Mudambi, and M. V. Rajagopal, Fundamentals of Foods, Nutrition and Diet Therapy, 5th ed. New Age International Publishers, 2007. B. Srilakshmi, Nutrition Science. New Age International (P)Ltd., 2002. B. Srilakshmi, Food Science, 4th ed. New Age International (P)Ltd., 2007. C. Bouchard, S. N. Blair, and W. L. Haskell Physical Activity and Health, 2nd ed. Human Kinetics, 2012. S. Rodey, Food Science and Nutrition, 2nd ed. Oxford University Press, 2018.
				Fleas and flea-borne diseases			
July	01/07/2024	07/07/2024	02	Fleas and flea-borne diseases			
				Fleas and flea-borne diseases			
July	08/07/2024	14/07/2024	02	Human body louse as important insect vectors			
				Human body louse as important insect vectors			
July	15/07/2024	21/07/2024	02	Human body louse as important insect vectors			
				Activity – understanding vector borne diseases	Yes		
July	22/07/2024	28/07/2024	02	Triatomine Bugs as a vector			
				Triatomine Bugs			
July/August	29/07/2024	04/08/2024	02	ISA 1	Yes		
				Bed bug			
August	05/08/2024	11/08/2024	02	Beg bug		Powerpoint presentation,	S. R. Mudambi, and M. V. Rajagopal, Fundamentals of Foods, Nutrition and Diet Therapy, 5th ed. New Age International Publishers, 2007.

				Ixodid ticks as vectors		Google classroom, you tube,	<p>B. Srilakshmi, Nutrition Science. New Age International (P)Ltd., 2002.</p> <p>B. Srilakshmi, Food Science, 4th ed. New Age International (P)Ltd., 2007.</p> <p>C. Bouchard, S. N. Blair, and W. L. Haskell Physical Activity and Health, 2nd ed. Human Kinetics, 2012.</p> <p>S. Rodey, Food Science and Nutrition, 2nd ed. Oxford University Press, 2018.</p>
August	12/08/2024	18/08/2024	02	Ixodid ticks as vectors			
				Ixodid ticks as vectors			
August	19/08/2024	25/08/2024	02	Molluscs as Vectors: Snail-borne parasitic diseases (SBPDs) Gastropod	Yes		
August	26/08/2024	01/09/2024	02	ISA 2			
				Schistosomiasis (bilharziasis)			
September	02/09/2024	08/09/2024	02	Schistosomiasis (bilharziasis)			
				Hippeutis sp. Disease: Fasciolopsiasis			
September	16/09/2024	22/09/2024	02	Hippeutis sp. Disease: Fasciolopsiasis			
September	23/09/2024	29/09/2024	02	Snail control Diseases transmitted by Rats: Leptospirosis			
September			02	ISA 3	Yes		

				Diseases transmitted by Rats: Leptospirosis			
Sept/ October	30/09/2024	06/10/2024	01	Rodent control		Powerpoint presentation, Google classroom, you tube,	
October	07/10/2024	13/10/2024	02	Quiz	Yes		S. R. Mudambi, and M. V. Rajagopal, Fundamentals of Foods, Nutrition and Diet Therapy, 5th ed. New Age International Publishers, 2007.
				Revision			B. Srilakshmi, Nutrition Science. New Age International (P)Ltd., 2002.
October	14/10/2024	22/10/2024	01			Powerpoint presentation, Google classroom, you tube,	B. Srilakshmi, Food Science, 4th ed. New Age International (P)Ltd., 2007.
				Revision			C. Bouchard, S. N. Blair, and W. L. Haskell Physical Activity and Health, 2nd ed. Human Kinetics, 2012.
							S. Rodey, Food Science and Nutrition, 2nd ed. Oxford University Press, 2018.
* Assessment Rubrics							
	Component	Max Marks					
	ISA 1	7.5					
	ISA 2	7.5					
	ISA 3	7.5					
	Semester End Exam	60					