

* Assessment Rubrics

Component	Max Marks
ISA 1	
ISA 2	
Practical	50
Project	
Semester End Exam	80

Practical Plan

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

Name of Faculty: Ayesha E. Shetkar

Subject: Zoology

Paper code: : ZOO 211 – Vector Borne Diseases

Program: S.Y.B.Sc

Division:

Academic year: 2024-25

Semester: III

Total Practicals/Labs: --

Credits: 01

Course Objectives: 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: 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

Student Learning Outcome:

- Knowledge of vector borne diseases.
- Skill in identification of vectors and their various life stages.

Month	Practicals/Labs Scheduled Date	No. of Practical/Labs planned	List of Experiments	Reference books
July 2024	03/07/24	1	Identification of the following specimens: Mosquito, Housefly, rat Flea, Head Louse.	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	10/07/24	1	Identification of the following specimens: Bed bug, Tick and House Rat	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	17/07/24	1	Study of Life cycle of some Vectors representing Order: Diptera, Siphonoptera.	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd

				2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	24/07/24	1	Study of Life cycle of some Vectors representing Order: Siphunculata and Hemiptera	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/nceid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	31/07/24	1	Study of mouth parts of vectors representing Orders: Diptera, Siphonoptera.	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/nceid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
August 2024	07/08/24	1	Study of mouth parts of vectors representing Orders: Siphunculata and Hemiptera.	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/nceid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	14/08/24	1	Understanding incidence of prominent Vector borne diseases in India from secondary data of VCRC-ICMR /WHO resources	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/nceid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease
	21/08/24	1	Design a Vector control program for the following vectorborne diseases (any two): a. Malaria	W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references:

				<p>1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease</p>
	28/08/24	1	<p>Design a Vector control program for the following vectorborne diseases (any two):</p> <p>b. Schistosomiasis</p>	<p>W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease</p>
September 2024	04/09/24	1	<p>Identify signs, indicating the species and extent of a rodent infestation. Plan a community rodent control program</p>	<p>W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease</p>
	18/09/24	1	<p>Rearing of any suitable mosquito species of Goa, from egg to adult in laboratory</p>	<p>W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease</p>
October 2024	25/09/24	1	<p>Study of different larvivorous fish found in Goa</p>	<p>W.C. Marquardt, Biology of disease vectors (2nd Edition). Doody Enterprises, Inc. USA, 2005. Web references: 1. https://www.cdc.gov/ncezid/dvbd 2. https://www.who.int/news-room/fact-sheets/detail/vector-borne-disease</p>
	02/10/24	1	<p>Revision of practical's</p>	
	09/10/24	1	<p>Journal certification</p>	

