Curriculum Plan

Dr. Tarkeshwar

B.Sc. (H) Zoology, VII Semester, IV Year
Paper: DSE_Applied Entomology
Month-wise plan for Theory

Period Assigned: Theory 01,
Paper shared with: Dr. Priyanka Dahiya, Mr. Gulshan Yadav

Month	Week-wise Dates	Unit	Topic to be covered
August	1st- 3rd week	Unit 1: Exploring the Fascinating world of Insects.	• Overview of the economic importance of insects • Beneficial insects (Honey bees, Silkworm, Lac insect, ecosystem service providers: flesh flies, dung beetles, termites);
	4th -5th week		• Insect pests of agricultural crops, stored grains, medical and household; • Insects as forensic agents: role of insects/arthropods in criminal investigation by predicting time and cause of death.
September	1st-2nd week	Unit 3: Bionomics of Insect Pests of Agricultural Crops and Stored grains	• Pest, Pest Status • Economic threshold (ET) • Economic injury level (EIL) • Classification of pests
	2nd week	Unit 2: Co-evolution of insects and plants	• Insect-plant relationships
	3rd- 4th week		• Insect-plant relationships
October	1st -2nd week	Unit 2: Co-evolution of insects and plants	• Mechanisms of insect resistance in plants • Assignments allotment and presentations
	3rd week		• Tri-trophic interactions
November	2nd-3rd week	Unit 5: Pest Management Methods	• Integrated Pest Management (IPM) • Integrated Vector • Management (IVM).
	4th week		• Assignments, Test, Revision

Curriculum Plan
Dr. Tarkeshwar

B.Sc. (H)/B.A. (H) GE Zoology, V Semester, III Year
Paper: Concept of Animal Behaviour
Month-wise plan for Practical

Assigned: Practical, 2 Period

Month	Weekly schedule	Practical Exercise to be covered
August	1st week	Introduction to the course, curriculum and work plan
	2nd week	Introduction to insect, insect pest, insect morphology, insect order
	3rd	Visit to an Insect rearing/culture research lab
	4th - 5th week	Study of life history stages of insect pests of medical and household importance - Mosquitoes (Anopheles, Culex, Aedes)
September	1st week	Study of life history stages of insect pests of medical and household importance - lice, sand fly, flea, house fly, cockroach
	2nd week	Study of life history stages of hemimetabolous and holometabolous insect
	3rd – 4th week	Rearing of life cycle stages and details of hemimetabolous and holometabolous insect, their biology, economic importance, and appropriate pest management method
October	1st week	Estimation of LD50 and LC50 of insecticides using mosquito larvae/ given data.
	2nd week	Visit to field to study different insect pests
	3rd week	Pesticide residue analysis of contaminated soil/vegetable/water samples using TLC.
November	1st - 2nd week	Revision
	3rd -4th week	Practical examination