

# LESSON PLAN

CLASS - B.Sc. III<sup>rd</sup>

SEMESTER - VI<sup>th</sup>

Name of Assistant / Associate - <sup>Extension</sup> Dr. JYOTI

Subject / Paper - ZOOLOGY PRACTICAL

Unit	Month	Subject Matter / Syllabus
1	January 2024	External morphology, Identification marks, Nature of damage and host of the Sugarcane leafhopper, Sugarcane whitefly, Sugarcane top borer, sugarcane root borer, Guadasou borer. pests.
2	February 2024	External morphology, Identification marks, Nature of damage and host of the Red cotton bug, wheat stem borer, Rice stem borer pests.
3	March 2024	External morphology, Identification Marks, Nature of damage and host of <i>Aulocophora faveicollis</i> , <i>Dacus cucurbitae</i> , <i>Epilachna</i> , Pulse beetle, Grain and flour moth, Rice weevil pests.
4	April 2024	Preparation of temporary slides of developmental stages of frog. Study of Permanent slides of WM of chick embryo (13-18h, 24-36h, 36-48h, 48-72 h). Window preparation and identification of stages of development in chick egg.

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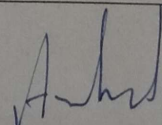
Extension Lecture  
Name of Assistant / Associate - Dr. Jyoti

Subject / Paper

- Entomology (2006.1)

Unit	Month	Subject Matter / Syllabus
1	January 2024	Introduction of Parasitology. Systematic position, Habits and Nature of damage caused by Sugarcane and Cotton pests. <i>Psylla perpusilla</i> and <i>pectinophora gossypiella</i> with its life cycle and control.
2	February 2024	Systematic position, Habits and Nature of damage caused by pests of wheat and Paddy. Life cycle and control of <i>Sesamia inferens</i> and <i>Leptocorisa acuta</i> .
3	March 2024	Systematic position, Habits and Nature of damage caused by vegetables and stored grains pests. <i>Raphidopalpa foveicollis</i> and <i>Trogoderma granarium</i> with its life cycle and control. Important <del>bixel</del> and rodent pests of agriculture & their management.
4	April 2024	Biological control, its history, requirement and precautions and feasibility of biological agents for control. History, categories of pesticides, Important pesticides from each category of pests against which they can be used. Insect repellants and attractants. Integrated pest management.

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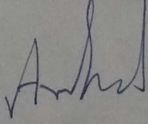
Extension Lecturer  
Name of Assistant / Associate - Dr. Jyoti

Subject / Paper

- Life and Diversity of Annelida to Hemichordata

Unit	Month	Subject Matter / Syllabus
1	January 2024	General characters and classification of Annelida upto order level. Biodiversity and economic importance of Annelida. Type study of <i>Pheretima posthuma</i> . Metamerism in Annelida, Trochophore larva its affinities, evolutionary significance.
2	February 2024	General characters and classification upto order level of Arthropoda. Biodiversity and economic importance of insects. Type study of <i>Leiphaneta</i> .
3	March 2024	Biodiversity, economic importance, general characters and classification upto order level of Mollusca. Type study of <i>Pila</i> . Torsion and detorsion in gastropoda. Respiration and foot in Mollusca.
4	April 2024	General characteristics, classification, Biodiversity and economic importance of Echinodermata. Type study of <i>Asterias</i> . Echinoderm larvae and Aristotle's lantern. Type study of <i>Balanoglossus</i> .

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Name of Assistant / Associate - Dr. Jyoti  
*Extension Lecturer*

Subject / Paper

- Developmental Biology (2006.2)

Unit	Month	Subject Matter / Syllabus
1	January 2024	Historical perspectives, aims and scope of developmental Biology. Structure of Mammalian ovum and sperm. Spermatogenesis and Oogenesis.
2	February 2024	Fertilization, Parthenogenesis, different types of eggs and patterns of cleavage in invertebrates and vertebrates. Process of blastulation in invertebrates and vertebrates. Fate Map construction in frog and chick.
3	March 2024	Gastrulation in invertebrates and vertebrates. Gastrulation and formation of three germinal layers in frog and chick. Elementary knowledge of primary organizers, Neural Induction in different chordates, Secondary, Tertiary and Quaternary organs.
4	April 2024	Extra embryonic membranes, structure and significance in birds and mammals. Concepts of competence, determination and differentiation. Concept of Regeneration.

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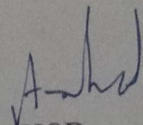
SEMESTER - IInd

Name of Assistant / Associate Lecturer - Dr. Jyoti

Subject / Paper - Zoology Practicant (P-102)

Unit	Month	Subject Matter / Syllabus
1	January 2024	Specimens of Annelida, Permanent stained Preparation of Annelida. Demonstration of model of Digestive, reproductive and nervous system of Earthworm.
2	February 2024	Specimens and slides of Phylum Arthropoda. Demonstration of Model of digestive, nervous and reproductive system of Cockroach. Demonstration of setae of earthworm and mouth parts of Honeybee, Housefly and cockroach.
3	March 2024	Specimens and study of permanent slides of Phylum Mollusca. Part study of Pallial complex, digestive and nervous system of Pila. Demonstration of mouth parts and trachea of periplaneta, radula of Pila, pedicellariae of Asterias.
4	April 2024	Study of specimens and permanent slides of Phylum Echinodermata and Hemichordata. Salivary gland and polytene chromosomes of Drosophila. Numericals based on three point test cross.

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