

**GOVT. COLLEGE MANGALI HISAR**  
**Lesson Plan Zoology (2025-26)**

Academic Calender- ODD Sem 2025-26	
EVENT	DURATION
Admissions	01.07.2025 to 19.07.2025
Teaching-I	14.07.2025 to 18.10.2025
Vacations (Diwali)	19.10.2025 to 26.10.2025
Teaching-II	27.10.2025 to 21.11.2025
End Semester Examinations (Major Test)	22.11.2025 to 20.12.2025
Winter Vacations	21.12.2025 to 31.12.2025

Name of Faculty Member: **Dr. Vijayanti Jakhar**

Designation: **Assistant Professor of Zoology**

Semester: **5<sup>th</sup>**

Subject: **Zoology**

Nomenclature of Paper and Paper Code: **Applied Zoology-I (ZOO-501 L) & Applied Zoology-II (ZOO-502 L)**

Month	Class	Paper and Paper Code	Topic/Chapter covered	Test/ Assignment
July 2025	B.Sc.-III Vth Sem Medical	<b>Applied Zoology-I (ZOO-501 L)</b>	<b>General Introduction of Syllabus(Paper I)</b> Host and It's Types Parasitism and knowledge regarding Program specific outcomes Special Lecture on Course Outcome and Program Specific Outcome Parasitism, Symbiosis and Commensalism Zoonosis Doubt Session Prevention and control of Tuberculosis Prevention & Control of Typhoid Reservoir and Doubt Session Life Cycle & Pathogenicity of <i>Plasmodium vivax</i> Doubt Session	
August 2025	B.Sc.-III Vth Sem Medical	<b>Applied Zoology-I (ZOO-501 L)</b>	Brief account of <i>Rickettsia</i> , Brief account of <i>Borrelia</i> , Brief account of <i>Treponema</i> Doubt Session Life Cycle & Pathogenicity of <i>Wucherraria bancrofti</i> Life Cycle & Pathogenicity of <i>Entamoeba histolytica</i> Life Cycle & Pathogenicity of <i>Trypanosoma gambiense</i> , <i>Ancylostoma duodenale</i> Doubt Session	Assignment-I (Paper-I)
September 2025	B.Sc.-III Vth Sem Medical	<b>Applied Zoology-I (ZOO-501 L)</b>  <b>Applied Zoology-II (ZOO-502 L)</b>	<b>General Introduction regarding Syllabus of Paper-II</b> Biology, Control & Damage Caused by <i>Helicoverpa armigera</i> , <i>Pyrilla perpusilla</i> , <i>Papilio demoleus</i> and Doubt Session Biology, Control & Damage Caused by <i>Collosobruchus chinensis</i> , <i>Sitophilus oryzae</i> , <i>Tribolium castaneum</i> Special Lecture on Course Outcome and Program Specific Outcome Cattle Farming: Breeds of Dairy Cattle, Artificial Insemination, Induction of Early Puberty Estrous Synchronization, Cross Breeding Visit to Cattle Farm Medical Importance & Control of <i>Pediculus humanus corporis</i> , <i>Anopheles</i> , <i>Culex</i> & <i>Aedes</i> , <i>Xenopsylla cheopsis</i> and Doubt Session Breeds of Poultry Farming and Cross Breeds of Fowls	Minor test-I (Paper-I)
October 2025	B.Sc.-III Vth Sem Medical	<b>Applied Zoology-II (ZOO-502 L)</b>	Management of Poultry Breed Stock & Broilers Processing & Preservation of Eggs and Doubt Session	Assignment-II (Paper-II)
November 2025	B.Sc.-III Vth Sem Medical	<b>Applied Zoology-II (ZOO-502 L)</b>	General Introduction of Aquaculture Genetic Improvement of Aquaculture Industry, Introduction and Transportation of Fish Seeds and Doubt Session Revision	Minor test-II (Paper-II)

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Designation: **Assistant Professor of Zoology**

Semester: **1<sup>st</sup>**

Subject: **Zoology (VAC)**

Nomenclature of Paper and Paper Code: **Environmental Studies-I (C24VAC101T)**

Month	Class	Paper and Paper Code	Topic/Chapter covered	Test/ Assignment
<b>July 2025</b>	B.Sc, B.com and B.A-Ist Sem	<b>Environmental Studies-I (C24VAC101T)</b>	<b>General Introduction of Syllabus of Paper</b> Multidisciplinary nature of environmental studies: Definition, scope and importance. Need for public awareness. Doubt Session	
<b>August 2025</b>	B.Sc, B.com and B.A-Ist Sem	<b>Environmental Studies-I (C24VAC101T)</b>	Ecosystems: Concept of an ecosystem. Structure and function of an ecosystem. Producers, consumers and decomposers. Doubt Session	Assignment-I
<b>September 2025</b>	B.Sc, B.com and B.A-Ist Sem	<b>Environmental Studies-I (C24VAC101T)</b>	Energy flow in the ecosystem. Ecological succession. Food chains, food webs and ecological pyramids. Doubt Session	Minor test-I
<b>October 2025</b>	B.Sc, B.com and B.A-Ist Sem	<b>Environmental Studies-I (C24VAC101T)</b>	Biodiversity and its conservation: Introduction- Biogeographical classification of India. Value of biodiversity, India as a mega-diversity nation. Doubt Session	Assignment-II
<b>November 2025</b>	B.Sc, B.com and B.A-Ist Sem	<b>Environmental Studies-I (C24VAC101T)</b>	Hot-spots of biodiversity. Threats to biodiversity: Conservation of biodiversity: In-situ and ex-situ conservation of biodiversity. Doubt Session Revision	Minor test-II

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Designation: **Assistant Professor of Zoology**

Semester: **1<sup>st</sup>**

Subject: **Zoology (SEC)**

Nomenclature of Paper and Paper Code: **Skill Enhancement Course (SEC) Apiculture (C24SEC131T)**

Month	Class	Paper and Paper Code	Topic/Chapter covered	Test/ Assignment
July 2025	B.Sc, B.com and B.A-Ist Sem	Skill Enhancement Course (SEC) Apiculture (C24SEC131T)	<b>General Introduction of Syllabus of Paper</b> Apiculture meaning, definition, scope and history, Status of Apiculture Industry in India, Classification and Life Cycle of Honey Bee, Identification of Indigenous and exotic Honey bee species Doubt Session	
August 2025	B.Sc, B.com and B.A-Ist Sem	Skill Enhancement Course (SEC) Apiculture (C24SEC131T)	Cultivable species of Honey Bee with reference to India, Social organization of honey bees: the castes- queen, drone and workers, Nesting behavior of Honey bees, Bee foraging, Seasonal management, swarming in Honey bees, waggle dance, defense in honey bees, Diseases and Enemies of Bees, Control and Preventive measures. Doubt Session	Assignment-I
September 2025	B.Sc, B.com and B.A-Ist Sem	Skill Enhancement Course (SEC) Apiculture (C24SEC131T)	Role of Bees in cross pollination in horticulture and agriculture, Methods of Artificial Bee keeping, Equipments used in Bee keeping Industry, Methods of extraction of Honey and other products. Doubt Session	Minor test-I
October 2025	B.Sc, B.com and B.A-Ist Sem	Skill Enhancement Course (SEC) Apiculture (C24SEC131T)	Products of Apiculture Industry and their Uses (Honey, Bee Wax, Royal Jelly, Bee Venom, Propolis and Pollen), Bee Keeping Industry: Present and future Prospects of apiculture as selfemployment venture. Field visit to Honey Bee farm/Unit. Doubt Session	Assignment-II
November 2025	B.Sc, B.com and B.A-Ist Sem	Skill Enhancement Course (SEC) Apiculture (C24SEC131T)	Economics of Apiculture: Expenditure, Net Income, and Additional benefits. Doubt Session Revision	Minor test-II

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Name of Faculty Member: **Dr. Vijayanti Jakhar**

Designation: **Assistant Professor of Zoology**

Semester: 3<sup>rd</sup>

Subject: **Zoology (SEC)**

Nomenclature of Paper and Paper Code: **Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)**

Month	Class	Paper and Paper Code	Topic/Chapter covered	Test/ Assignment
July 2025	B.Sc, B.com and B.A-3 <sup>rd</sup> Sem	Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)	General Introduction of Syllabus of Paper Vermiculture: Introduction, definition, history, general characters of Annelida. Doubt Session	
August 2025	B.Sc, B.com and B.A-3 <sup>rd</sup> Sem	Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)	Vermiculture: Systematic position of earthworm, habits and habitat of earthworm, diversity of earthworms, collection of earthworms, preservation of earthworms.  Doubt Session	Assignment-I
September 2025	B.Sc, B.com and B.A-3 <sup>rd</sup> Sem	Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)	Vermitechnology: Role of earthworm in maintenance of soil structure and their role as recycling, reduce, reuse, restore (4r's), choosing right species of earthworm. Doubt Session	Minor test-I
October 2025	B.Sc, B.com and B.A-3 <sup>rd</sup> Sem	Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)	Earthworm biology and rearing: Key to identify the species of earthworm, life cycle of <i>Eisenia fetida</i> , <i>Lampito mauritii</i> and their role on ecology, an eco friendly approach to sustainable agriculture Doubt Session	Assignment-II
November 2025	B.Sc, B.com and B.A-3 <sup>rd</sup> Sem	Skill Enhancement Course (SEC) Vermiculture and Vermicomposting (C24SEC331T)	Vermicomposting (methods and products): Preparation of vermibed, small scale earthworm farming for home garden, large scale commercial composting, properties of vermicompost and vermiwash, application on crop plants economic development and self-employment Doubt Session Revision	Minor test-II

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