ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

B.SC.(HONORS) AGRICULTURE AND RURAL DEVELOPMENT WITH SINGLE MAJOR

# II SEMESTER AGRICULTURE AND RURAL DEVELOPMENT Time:30hrs/week

AGRD131P(1)  **FUNDAMENTALS OF ENTOMOLOGY** Marks:50

w.e.f AK 2023-2024 (Admitted batch) **PRACTICAL** **SYLLABUS**

**OBJECTIVES:**

• To study about insects and their relationship to humans and environment

• To study about types of reproduction

• To study about insect taxonomy

**COURSE OUTCOMES:**

**CO1:** Explain History of Entomology in India

**CO2**: Summarize the Structure and modifications of insect antennae, mouth parts, legs, wing venation, modifications and wing coupling apparatus.

**CO3:** Classify the Types of reproduction in insects and classify Insect Taxonomy

**EXPERIMENTS:**

1. Methods of collection and preservation of insects including immature stages; External features of Grasshopper/Blister beetle.   **(8 Hrs.)**

2. Types of insect antennae, mouthparts and legs; Wing venation, types of wings and wing coupling apparatus. **(8 Hrs.)**

3. Types of insect larvae and pupae; Dissection of digestive system in insects (Grasshopper); Dissection of male and female reproductive systems in insects (Grasshopper).  **(7 Hrs.)**

4. Study of characters of orders Orthoptera, Dictyoptera, Odonata, Isoptera, Thysanoptera, Hemiptera, Lepidoptera, Neuroptera, Coleoptera, Hymenoptera, Diptera and their families of agricultural importance. **(7 Hrs.)**

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