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

III SEMESTER  **AGRICULTURE AND RURAL DEVELOPMENT** TIME: 30HRS

AGRD 231P (1) **INSECT ECOLOGY & IPM**  MARKS:100

w.e.f 2024-2025 (23AK Batch) **PRACTICAL SYLLABUS**

**OBJECTIVES:**

To study the influence of ecological factors on insect development.

To study about the components of integrated pest management.

To study about classification of insects.

**Course Outcomes:**

**CO1:** Explain about Biotic and biotic factors affecting insect ecology

**CO2:** Outline about pest surveilliance pest forecasting recent methods.

**CO3**: Explain about Beneficial insect and their mass multiplication.

**EXPERIMENTS:**

1. Sampling techniques for the estimation of insect population in different crops **(3hrs)**

2. Study of distribution patterns of insects in crop ecosystems **(3hrs)**

3. Techniques for the estimation of insect damage in different crops **(3hrs)**

4. Pest surveillance through light traps, pheromone traps and forecasting of pest incidence

**(3hrs)**

5. Acquaintance of insecticide formulations **(3hrs)**

6. Calculation of doses/ concentrations of different insecticidal formulations **(3hrs)**

7. Compatibility of pesticides with other agrochemicals and phytotoxicity of insecticides

**(3hrs)**

8. Acquaintance of mass multiplication techniques of important predators – Cryptolaemus.

**(3hrs)**

9. Acquaintance of mass multiplication techniques of the egg parasitoid, Trichogramma

**(3hrs)**

10. Acquaintance of mass multiplication techniques of Ha NPV and Sl NPV **(3hrs)**

**SCHEME OF VALUATION:**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **Experiment** | **Marks (50)** |
| 01 | Major Experiment | 15Marks |
| 02 | Minor Experiment | 10Marks |
| 03 | Viva | 10Marks |
| 04 | Record | 10Marks |
| 05 | Skills | 05Marks |

**\*\* \*\* \*\***