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

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

AGRD 261P (1) **ECO-PHYSIOLOGY** MARKS:50

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

**Objectives:**

∙ To study about relation between environment and the functioning of the live organisms

∙ To study about how life processes depend on the environment at different levels.

∙ To study the connection between life processes in the context.

**Course Outcomes:**

**CO1:** Explain about Basic principles of physiology and environment

**CO2:** Outline about control mechanism and environment.

**CO3:** Explain about impact of different environments on life processes and osmotic balance.

**EXPERIMENTS:**

1. Hydrophytes - Morphological and anatomical adaptations to Excess **(4hrs)**

2. Mesophytes - Morphological and anatomical adaptations to mesic conditions **(3hrs)**

3. Xerophytes - Morphological and anatomical adaptations to Water deficit **(4hrs**)

4. Effects of light and shade on crop growth **(3hrs)**

5. Influence of different soils on crop growth **(3hrs)**

6. Analysis of competition in crop plants **(3hrs)**

7. Effect of dust pollution on crop growth **(3hrs)**

8. Effect of soil pollution on crop growth **(3hrs)**

**SCHEME OF VALUATION:**

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