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

# III SEMESTER **AGRICULTURE AND RURAL DEVELOPMENT** Time: 5hrs/week

## CPHY 261P (1) ECO-PHYSIOLOGY Marks:50

## w.e.f 22AJ\_2022-2023 (Admitted batch) PRACTICAL SYLLABUS

**OBJECTIVES:**

* To study about relation between environment and the functioning of the live organisms
* To study about how life process depend on the environment at different levels.
* To study about connection between life process in the context.

**COURSE OUTCOMES:**

**CO1:** Students will understand about Basic principles of physiology and environment

**CO2:** Students will learn about control mechanism and environment.

**CO3:** Students will understand about impact of different environments on life processes

**CO4:** Students will understand about Iconic and osmotic balance

**CO5:** Students will understand about water, cell membrane channels and transport

**CO6:** Students will understand about Respiration and circulation.

**EXPERIMETS:**

1. Hydrophytes - Morphological and anatomical adaptations to Excess

2. Mesophytes - Morphological and anatomical adaptations to mesic conditions

3. Xerophytes - Morphological and anatomical adaptations to Water deficit

4. Effects of light and shade on crop growth

5. Influence of different soils on crop growth

6. Analysis of competition in crop plants

7. Measurement of microclimate in contrast crop canopies

8. Effect of dust pollution on crop growth

9. Effect of soil pollution on crop growth

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