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

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

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

AGRD171 (1)  **INTRODUCTION TO PLANT PATHOLOGY** Marks:100

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

**OBJECTIVES:**

* To prevent and control disease of economic importance.
* To preventing the introduction and spread of pests.
* To study about different groups: fungi, bacteria, fastidious vascular bacteria.

**Course Outcomes:**

**CO1:** Explain the Importance of plant diseases, scope and objectives of Plant Pathology.

**CO2:** Summarize Diseases and symptoms due to abiotic causes. Fungi: General                           characters, definition of fungus, somatic structures.

**CO3:** Explain Basic methods of classification and reproduction and Nematodes: General morphology and reproduction.

**EXPERIMENTS:**

1. Study of vegetative structures of fungi and their modifications. **(4 Hrs.)**

2. Study of reproductive (sexual and asexual) structures of fungi. **(4 Hrs.)**

3. Study of Pythium and Phytophthora. **(4 Hrs.)**

4. Study of Albugo. **(4 Hrs.)**

5. Study of imperfect fungi – Aspergillus, Penicillium and Pyricularia. **(2 Hrs.)**

6. Study of imperfect fungi – Fusarium, Rhizoctonia and Sclerotium. **(4 Hrs.)**

7. Isolation of phytopathogenic bacteria (locally available diseased plant material) and

    Study of colony characteristics and Gram’s staining. **(4 Hrs.)**

8. Demonstration of mechanical transmission of plant viruses. **(4 Hrs.)**

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