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

III SEMESTER **BOTANY** TIME:2 HRS/WEEK

B-Ma4-3151(2) **PLANT BIOTECHNOLOGY** MARKS: 50

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

**I. Course Outcomes:** On successful completion of this practical course, student shall be able to:

CO1. Operate all the equipment and instruments in a plant tissue culture laboratory.

CO2. Establish callus and organ culture.

CO3. Obtain quality plants using micro-propagation techniques.

**II. Laboratory/field exercises:**

1. Equipment used in plant tissue culture.

2. Sterilization techniques in plant tissue culture laboratory.

3. Preparation of culture media

4. Callus induction and subculturing.

5. Organogenesis using PGRs’

6. Demonstration of cell and protoplast culture.

7. Demonstration of organ cultures.

8. Demonstration of anther and pollen cultures.

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