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

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

B-Ma3-3151(2) **PLANT BREEDING**  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. Distinguish self and cross-pollinated plant species based on floral biology.

CO2. Perform skills related to self and cross pollination in plants.

CO3. Make hybridization to produce new varieties.

**II. Laboratory/field exercises:**

1. Floral biology in a self and a cross pollinated plant species.

2. Identification and classification of plants based on pollination mechanism.

3. Pollen viability test.

4. Observation on pollen germination.

5. Practicing emasculation technique.

6. Practicing selfing and crossing techniques.

7. Assessment of genetic variability.

8. Estimation of heterosis and inbreeding depression.

9. Studying mutant and polyploids in crop plants.

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