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

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

B-Ma1-3151(2) **VASCULAR PLANTS**  MARKS:50

w.e.f 2024-2025 (23AK Batch) **Pteridophytes, Gymnosperms and Taxonomy of Angiosperms**  **PRACTICAL SYLLABUS**

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

CO1. Distinguish the Pteridophytes and Gymnosperms based on their morphological, anatomical

and reproductive structures.

CO2. Make systematic classification of plant species using vegetative and floral characters.

CO3. Identify angiosperm plant species and make herbarium specimens.

**II Laboratory/field exercises:**

I. Study/ microscopic observation of vegetative, sectional/anatomical and reproductive

Structures of the following using temporary or permanent slides/specimens/ mounts:

1. Pteridophyta: *Lycopodium* and *Marselia*

2. Gymnosperms: *Cycas* and *Gnetum*

II. Technical description of locally available plant species from the following angiosperm

families:

1. Annonacae 2. Cucurbitaceae 3. Asteraceae 4. Asclepiadaceae

5. Amaranthaceae 6. Euphorbiaceae 7. Arecaceae 8. Poaceae

III. Demonstration of herbarium techniques.

IV. Field trip to a local floristic area/forest (Submission of 30 number of Herbarium sheets of

wild plants with the standard system are mandatory).

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