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

II SEMESTER **BOTANY**  TIME:2Hrs/Week

B-Ma1-2151(3) **NON-VASCULAR PLANTS**  Marks: 50

W.e.f. 2023-24 admitted batch (23AK)

**NON-VASCULAR PLANTS PRACTICAL (ALGAE, FUNGI, LICHENS, AND BRYOPHYTES)**

1. **COURSE OUTCOMES:** On successful completion of this practical course, student shall be able to:

1. Identify some algal and fungal species based on the structure of thalli and reproductive

organs.

2. Decipher the lichens and Bryophytes based on morphological, anatomical and reproductive features.

**II. LABORATORY/FIELD EXERCISES:**

Study/ microscopic observation of vegetative, sectional/anatomical and reproductive structures of the following using temporary or permanent slides/ specimens/ mounts:

1. **Algae:** *Spirogyra, Ectocarpus, Vaucheria and Polysiphonia;* a centric and a pennate diatom.

2. Demonstration of culture and cultivation of *Chlorella*

3. Identification of some algal products available in local market.

4. **Fungi:** *Phytophthora, Rhizopus, Penicillium* and *Puccinia*

5. Identification of some fungal products available in the local market.

6. **Lichens:** Crustose, foliose and fruiticose

7. **Bryophyta:** *Marchantia, Anthoceros* and *Funaria.*

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