

Course Code	Course Name	Credits
26BY151	PLANT DIVERSITY-I LAB	02

Objective

The course aims to provide hands-on experience in studying the morphology and reproductive structures of selected genera of algae, fungi, lichens, and bryophytes. It trains students in the identification and microscopic examination of important taxa such as *Oscillatoria*, *Volvox*, *Navicula*, *Polysiphonia*, *Rhizopus*, *Albugo*, *Peziza*, *Phytophthora*, *Riccia*, *Anthoceros* and *Funaria*. It also focuses on developing skills in the collection, preservation, and submission of algal specimens from natural habitats, while enhancing practical knowledge of plant diversity through direct observation of thallus organization and life cycle stages in lower plant groups.

1. Study of the morphology and reproductive structures of *Oscillatoria*.
2. Study of the morphological and reproductive structures of *Volvox*.
3. Study of the morphology and reproductive structures of *Navicula*.
4. Study of the morphology and reproductive structures of *Polysiphonia*.
5. Collection and submission of any five genera of algae.
6. Study of the morphology and reproductive structures of *Rhizopus*.
7. Study of the morphology and reproductive structures of *Albugo*.
8. Study of the morphology and reproductive structures of *Peziza*.
9. Study of the morphology and reproductive structures of *Phytophthora*.
10. **Lichen:** Study of the thallus forms of lichens.
11. **Bryophytes:** Study of the gametophytic and sporophytic structures of *Riccia*.
12. Study of the gametophytic and sporophytic structures of *Anthoceros*.
13. Study of the gametophytic and sporophytic structures of *Funaria*

Students are required to perform and record at least eight experiments in the laboratory manual as part of the course requirements.