

Course Code	Course Name	Credits
26BY157	CRYPTOGAMIC DIVERSITY LAB	02

Objective:

To observe and study the morphology of different cryptogams such as algae, bryophytes, pteridophytes, fungi, and lichens. The course also aims to help students identify specimens using key features and classification. It focuses on understanding reproductive structures through slides and specimens, and developing basic skills in collection, preservation, and documentation.

1. **Algae:** Study of the morphology and reproductive structures of the algal genera mentioned in the syllabus.
2. Collection and submission of any five genera of algae.
3. Familiarize with algal culture.
4. **Fungi:** Study of the morphology and reproductive structures of the fungal genera mentioned in the syllabus.
5. Methods of Isolation and Culture of Fungi (Demo only).
6. **Lichen:** Study of the thallus forms of lichens.
7. **Bryophytes:** Study of the gametophytic and sporophytic structures of *Riccia*, *Anthoceros* and *Funaria*.
8. **Pteridophytes:** Stele evolution-different types of stele- (Photograph and specimens).
9. *Lycopodium*: Habit, morphology, anatomy of stem and L.S. of strobilus.
10. *Equisetum*: Habit, morphology, anatomy of rhizome, stem and L. S. of strobilus.

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

