

**BACHELOR OF SCIENCE in BOTANY (HONS)
SEMESTER – II**

Paper Code: BOT-202(P)

BOT-202(P) BOTANY PRACTICAL-II

25 MARKS

PRACTICAL LABORATORY

Gymnosperms and Palaeobotany:

1. Temporary stained preparation of the reproductive structures of Gymnosperms included in the theory.
2. Examination of the available specimens/slides of the fossil plants.
3. Description and classification of a representative species from each of the angiosperm families mentioned in the theory. Ranunculaceae: Ranunculus
Apiaceae: Coriandrum Asteraceae: Ageratum, Gynura & Spilanthes. Solanaceae: Solanum
Lamiaceae: Leucas/Ocimum Euphorbiaceae: Castor Liliaceae: Onion/Asparagus
Poaceae: Dactyloctenium/ Cynodon Malvaceae: Sida Urena
Identification of collected plants from the field.
4. Collection and identification of three plants each from cereals, pulses, fibre, yielding plants, medicinal plants available in Manipur.
5. To prepare a chart containing the starch contents from five important crop plants and protein contents from five pulses by using internet.
6. Preparation of temporary slides for the study of anomalous secondary growth in plants included in the theory paper.
7. Preparation of stained squashed of pollen motile cells, pollen grains and dissection of endosperm and embryo.
8. Field observation of local vegetation and submission of report is compulsory.
