

PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT20)

Year/ Semester: IInd semester

Course Code: MBOT-507

Course Name: BIOLOGY AND DIVERSITY OF BRYOPHYTA AND PTERIDOPHYTA

Syllabus

BLOCK –I: BRYOPHYTA

Unit –1: General Characters, Classification, Distribution and Economic Importance of Bryophytes

Unit –2: Marchantiales (*Marchantia*) and Fungermanniales (*Pellia*)

Unit –3: Anthoceratales (*Anthoceros*) and Sphagnales (*Sphagnum*)

Unit –4: The Evolution of Gametophyte

Unit –5: Evolution of Sporophyte

BLOCK – II: PTERIDOPHYTA

Unit –6: General Characters and Classification of Pteridophytes

Unit –7: Structure and Life Histories of *Psilotum*, *Lycopodium*, *Selaginella* and *Equisetum*

Unit –8: Telome Theory and Stelar Evolution

Unit –9: Heterospory and Seed Habit

Unit –10: Fossil Pteridophytes (*Rhynia*, *Psilophyton* and *Calamites*)