

PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT-21)

Year/ Semester: Ist semester

Course Code: MSCBOT-503

**COURSE NAME- PTERIDOPHYTES, GYMNOSPERMS AND
PALAEOBOTANY**

UNIT SCHEDULE

BLOCK-1- PTERIDOPHYTES

Unit-1-General characteristics, Salient features, Reproduction and Classification

Unit-2- Stele, Sori evolution, Heterospory and Seed habit, Fossil Pteridophyta

Unit-3-Psilophytopsida, Psilopsida, Lycopsida

Unit-4-Sphenopsida and Pteropsida

Unit-5-Eusporangiate and Leptosporangiate

BLOCK-2- GYMNOSPERM

Unit-6-Habitat, Reproduction, Classification, Distribution, Evolutionary trend and Economic importance

Unit-7-Brief account of the families of the Pteridospermales and Pentoxylales

Unit-8-General account of Cycadeoidales, Cordaitales, Cycadales, Ginkgoales and Benittiales

Unit-9-General account of Coniferales, Ephedrales, Taxales, Welwitschiales and Gnetales

BLOCK-3-PALAEOBOTANY

Unit-10-Fossils: Types, Formation and their Preservation

Unit-11-Methods of study of fossils, Geological time scale and Palaeobotanical Research