

PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT20)

Year/ Semester: Ist semester

Course Code: MBOT-503

Course Name: GYMNOSPERMS AND PLANT ANATOMY

Syllabus

BLOCK – I: GYMNOSPERMS

Unit –1: Distribution, General Characteristics, Classification and Economic Importance of Gymnosperms

Unit –2: Morphology and Anatomy of Cycadales, Ginkgoales, Conferales, Taxales and Gnetales

Unit –3: Reproductive Structure of Cycadales, Ginkgoales, Conferales, Taxales and Gnetales Unit –4: Development of Male and Female Gametophytes

Unit –5: Fossil Gymnosperms

BLOCK – II: ANATOMY

Unit –6: Apical Meristems of Root and Shoot

Unit –7: Tissues & Tissue Systems

Unit –8: Primary Structure of Root Stem and Leaf

Unit –9: Secondary Growth

Unit –10: Wood Anatomy