

PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT20)

Year/ Semester: IIIrd semester

Course Code: MBOT-601

Course Name: CELL BIOLOGY AND GENETICS

Syllabus

BLOCK – I: CELL BIOLOGY

Unit –1: Principles and Application of Light, Phase Control, Fluorescence and Electron Microscopy

Unit –2: Ultra Structure and Function of Plant Cell and Organelles

Unit –3: Chromosome

Unit –4: Special Types of Chromosome

Unit –5: Cell Cycle and Apoptosis

BLOCK – II: GENETICS

Unit –6: DNA

Unit –7: Genetic Code

Unit –8: Brief Overview of Mendelian Inheritance

Unit –9: Chromosomal Aberrations

Unit –10: Mutations