PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT-21)

Semester: Second
Course code: MSCBOT-507
COURSE NAME: CYTOGENETICS AND PLANT BREEDING

BLOCK-1-INTRODUCTION TO PLANT BREEDING

Unit-1   Genetic variability
Unit-2   Plant breeding: Concept, Objectives, Achievements and Scope
Unit-3   Plant Breeding methods

BLOCK-2-PLANT BREEDING FOR SPECIFIC

Unit-4   Male sterile and Heterosis breeding features
Unit-5   Apomixis: Application in plant breeding
Unit-6   Resistance Breeding for Temperature, Frost, Salt and Acid tolerance, Lodging and Diseases

BLOCK-3-CYTOGENETICS

Unit-7   Development of Genetics
Unit-8   Extra chromosomal inheritance in plants, Cytoplasmic Male Sterility
Unit-9   Sex determination and Sex linked inheritance
Unit-10   Linkage and Crossing over, Mutation