Department of Botany Sarat Centenary College

Teaching Assignment : 2023-2024

CBCS HONOURS

Semester V

Core Course 11 : Plant Physiology Name of the teacher : Dr. Quazi Taheruzzaman Unit 1: Plant-water relations Unit 2: Mineral nutrition Unit 3: Nutrient Uptake Unit 4: Translocation in the phloem Unit 5: Plant growth regulators Unit 6: Physiology of flowering Unit 7: Phytochrome , crytochromes and phototropins Practical

Core Course 12 : Plant Metabolism Name of the teacher : Dr. K. M. Hasib

Unit 1: Concept of metabolism Unit 2: Carbon assimilation Unit 3: Carbohydrate metabolism Unit 4: Carbon Oxidation Unit 5: ATP-Synthesis Unit 6: Lipid metabolism Unit 7: Nitrogen metabolism Practical

Discipline Specific Elective DSE 1: Reproductive Biology of Angiosperms Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Introduction

Unit 2: Reproductive development

Unit 3: Anther and pollen biology

Unit 4: Ovule

Unit 5: Self incompatibility

Unit 6: Embryo, Endosperm and Seed Units 7: Polyembryony and apomixis

Practical

DSE-2: Biostatistics Name of the teacher : Dr. K. M. Hasib

Unit 1: Biostatistics Unit 2: Collection of data primary and secondary Unit 3: Measures of central tendency Unit 4: Correlation Unit 5: Statistical inference Practical

Semester VI

Core Course 13 : Genetics & Plant Breeding Name of the teacher : Dr. K. M. Hasib

Unit 1: Mendelian genetics and its extension Unit 2: Extrachromosomal Inheritance Unit 4: Variation in chromosome number and structure Unit 5: Gene mutations Unit 6: Fine structure of gene Unit 7. Population and Evolutionary Genetics Unit-8 : Plant Breeding Unit 9: Methods of crop improvement Unit 10: Inbreeding depression and heterosis Unit 11: Crop improvement and breeding

Practical

Core Course 14: Plant Biotechnology Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Plant Tissue Culture Unit 2: Recombinant DNA technology Unit 3:Gene Cloning Unit 4: Methods of gene transfer Unit 5: Applications of Biotechnology Practical

DSE-3 : Plant Evolution and Biodiversity

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Earliest forms of plant life Unit 2: Evolutionary trends Unit 3: Phylogeny of plants Unit 4:Evolutionary theories: Unit 5: Plant diversity Practical

DSE-4 : Horticultural Practices and Post-Harvest Technology Name of the teacher : Dr. K. M. Hasib

Unit 1: Introduction Unit 2: Ornamental plants Unit 3: Fruit and vegetable crops Unit 4: Horticultural techniques Unit 5: Landscaping and garden design Field trip and Practical Unit 6: Floriculture Unit 8: Disease control and management Unit 7: Post-harvest technology Unit 9: Horticultural crops - conservation and management Field trip and Practical