

**Department of Botany
Sarat Centenary College
Teaching Assignment
2022-23**

CBCS GENERAL

SEMESTER-1

Core Course (CC-IA): Biodiversity

Name of the teacher : Dr. K. M. Hasib

Unit 1: Microbes

Unit 2: Algae

Unit 7: Gymnosperms

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 3: Fungi

Unit 4: Introduction to Archegoniate

Unit 5: Bryophytes

Unit 6: Pteridophytes

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib

Practical

SEMESTER II

Core Course (CC- 1B) : Plant Ecology and Taxonomy

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Introduction

Unit 2: Ecological factors

Unit 3: Plant communities

Unit 4: Ecosystem

Unit 7 Identification

Unit 8 Taxonomic evidences

Unit 9 Taxonomic hierarchy

Name of the teacher : Dr. K. M. Hasib

Unit 5: Phytogeography

Unit 6 Plant taxonomy

Unit 10 Botanical nomenclature

Unit 11 Classification

Unit 12 Biometrics, numerical taxonomy and cladistics

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib

Practical

SEMESTER III

Core Course (CC- 1C): Plant Anatomy and Embryology

Name of the teacher : Dr. K. M. Hasib

Unit 1: Meristematic and permanent tissues

Unit 2: Organs

Unit 5: Structural organization of flower

Unit 6: Pollination and fertilization

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 3: Secondary Growth

Unit 4: Adaptive and protective systems

Unit 7: Embryo and endosperm

Unit 8: Apomixis and polyembryony

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib - Practical
SEMESTER IV

Core Course (CC- 1D) : Plant Physiology and Metabolism

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Plant-water relations

Unit 2: Mineral nutrition

Unit 3: Translocation in phloem

Unit 8: Plant growth regulators

Unit 9: Plant response to light and temperature

Name of the teacher : Dr. K. M. Hasib

Unit 4: Photosynthesis

Unit 5: Respiration

Unit 6: Enzymes

Unit 7: Nitrogen metabolism

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib
Practical

Skill Enhancement Course : Medicinal Botany

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: History, Scope and Importance of Medicinal Plants.

Unit 2: Conservation of endangered and endemic medicinal plants.

Name of the teacher : Dr. K. M. Hasib

Unit 3: Ethnobotany and Folk medicines.

SEMESTER V

Discipline Specific Elective (DSE 1A) : Economic Botany and Biotechnology

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Origin of Cultivated Plants

Unit 2: Cereals

Unit 3: Legumes

Unit 6: Oils and Fats

Unit 7: Fibre Yielding Plants

Name of the teacher : Dr. K. M. Hasib

Unit 4: Spices

Unit 5: Beverages

Unit 8: Introduction to biotechnology

Unit 9: Plant tissue culture

Unit 10: Recombinant DNA Technique

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib
Practical

SEMESTER VI

Discipline Centric Elective (DSE 1B) : Cell Biology, Genetics and Molecular Biology

Name of the teacher : Dr. K. M. Hasib

Unit 1: Techniques in Biology

Unit 2: Cell as a unit of Life

Unit 3: Linkage and Crossing over

Unit 4: Mutations and Chromosomal Aberrations

Unit 8: Genetic material

Unit 9: Transcription (Prokaryotes and Eukaryotes)

Unit 10: Regulation of gene expression

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 5: Cell Organelles

Unit 6: Cell Membrane and Cell Wall

Unit 7: Cell Cycle

Name of the teacher : Dr. Quazi Taheruzzaman & Dr. K. M. Hasib

Practical

SEC 4 : Ethnobotany

Name of the teacher : Dr. Quazi Taheruzzaman

Unit 1: Ethnobotany :

Unit 2: Methodology of Ethnobotanical studies

Name of the teacher : Dr. K. M. Hasib

Unit 3: Role of ethnobotany in modern Medicine

S.C. College