

**Department of Botany  
Sarat Centenary College  
Teaching Assignment  
2020-21**

**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.

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### 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

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### 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