| Scheme for CBCS in B.Sc. Honours Program- Botany | | | | | | | |
|---|---|---|---|---|---|---|---|
| ACADEMIC SEMESTERS | DISCIPLINE CORE (DC) (4+2=6) | DISCIPLINR SPECIFIC ELECTIVE (DSE) (4+2=6) | GENERIC ELECTIVE (GE) (4+2=6) | ABILITY ENHANCEMENT COMPULSORY (AEC) (2) | SKILL ENHANCEMENT COURSE (SEC) (2) | CREDITS | MARKS |
| SEM-I | DC 1: Algae and Microbiology | - | GE-1 | ENVS | | 20 | 200 |
| | DC 2: Fungi, Lichens and Plant Pathology | - | | | | | |
| SEM-II | DC 3: Archegoniate and Paleobotany | - | GE-2 | Communicative English/ Bengali MIL | | 20 | 200 |
| | DC 4 : Morphology and Anatomy of Angiosperms | - | | | | | |
| SEM-III | DC 5: Plant Systematics | - | GE-3 | | | 24 | 200 |
| | DC 6 : Plant Ecology and Phytogeography and Biodiversity | - | | | | | |
| | DC 7. Economic botany | - | | | | | |
| SEM-IV | DC 8: Cell biology and Plant Breeding | - | GE-4 | | | 24 | 200 |
| | DC 9 : Genetics and Biostatistics | - | | | | | |
| | DC 10: Reproductive Biology of Angiosperms | - | | | | | |
| SEM-V | DC 11. Plant Physiology | DSE-1 | - | | SEC-1 | 26 | 250 |
| | DC 12: Plant Metabolism | DSE-2 | - | | | | |
| SEM-VI | DC 13: Biomolecules | DSE-3 | - | | SEC-2 | 26 | 250 |
| | DC 14. Plant Biotechnology | DSE-4/DP Dissertation/Project Work | - | | | | |
| TOTAL | | | | | | 140 | 1300 |

- Students pursuing DC in Botany will have to opt for SEC and DSE in Botany only
- GE subject must be different from DSC in Botany (Chemistry/Zoology)



| Marks and Question type distribution for Botany (Honours) course of studies | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. of Courses | Total Credit | Total Marks | Full Marks of Each Course | Internal Assessment (IA) | | End Semester Examination (ESE) | | |
| | | | | Attendance (4%) | Cont. Evaluation (6%) | Theoretical | | Practical |
| | | | | | | Descriptive | MCQ | |
| DC 14 courses | 14x6=84 | 14x50=700 | 50 | 4+6=10 | | 25 | nil | 15 |
| DSE 04 Courses | 4x6=24 | 4x50=200 | 50 | 4+6=10 | | 25 | nil | 15 |
| GE 04 Courses | 4x6=24 | 4x50=200 | 50 | 4+6=10 | | 25 | nil | 15 |
| SE 02 Courses | 2x2=4 | 2x50=100 | 50 | 4+6=10 | | 40 | nil | nil |
| AEC-1 (ENVS) | 1x2=2 | 1x50=50 | 50 | 10 project | | nil | 40 | nil |
| AEC-2 Communicative Bengali/English | 1x2=2 | 1x50=50 | 50 | 4+6=10 | | nil | 40 | nil |
| Grand Total | 140 | 1300 | - | - | | - | - | - |

- DISCIPLINE CORE (DC)
- DISCIPLINR SPECIFIC ELECTIVE (DSE)
- GENERIC ELECTIVE (GE)
- SKILL ENHANCEMENT COURSE (SEC)
- ABILITY ENHANCEMENT COMPULSORY (AEC)

## DETAILED COURSE STRUCTURE

### DISCIPLINE CORE (DC)

**YEAR 1**

**SEMESTER I**

**DC 1: Algae and Microbiology (Theory) (Total Lectures 60)**
**DC2: Fungi, Lichens and Plant Pathology (Theory) (Total Lectures 60)**

**SEMESTER II**

**DC 3: Archegoniate (Bryology, Pteridology, Gymnology) and Paleobotany (Total Lectures 60)**
**DC 4: Morphology and Anatomy of Angiosperms (Theory) (Total Lecture 60)**

**YEAR 2**

**SEMESTER III**

**DC 5: Plant Systematics (Theory) (Total Lecture 60)**
**DC 6: Plant Ecology and Phytogeography and Biodiversity (Theory) (Total Lecture 60)**
**DC 7. Economic botany (Theory) (Total Lecture 60)**

**SEMESTER IV**

**DC 8: Cell biology and Plant Breeding (Theory) (60Lectures)**
**DC 9: Genetics and Biostatistics (Theory) (60 Lectures)**
**DC 10: Reproductive Biology of Angiosperms (Theory) (60 Lectures)**

**YEAR 3**

**SEMESTER V**

**DC 11: Plant Physiology (Theory) (60 Lectures)**
**DC 12: Plant Metabolism (Theory) (60 Lectures)**

**SEMESTER VI**

**DC 13: Biomolecules (Biochemistry) (Theory) (Total Lectures 60)**
**DC 14. Plant Biotechnology (Theory) (60 Lectures)**

### DISCIPLINE SPECIFIC ELECTIVE (DSE)

**YEAR 3: SEMESTER V: DSE-1 and DSE-2 , SEMESTER VI: DSE-3 and DSE-4 (Project)**

**(Any three from the following; One each for each DSE course)**

1. **Analytical Techniques in Plant Sciences**
2. **Bioinformatics**
3. **Stress Biology**
4. **Plant Breeding**
5. **Natural Resource Management**
6. **Industrial and Environmental Microbiology**



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### GENERIC ELECTIVES (GE)

**YEAR 1: SEMESTER I: GE-1; SEMESTER II: GE-2**
**YEAR 2: SEMESTER III: GE- 3; SEMESTER IV: GE-4**

**(Any four from the following; One each for each GE course)**

1. **Biodiversity (Microbes, Algae, Fungi and Archegoniate)**
2. **Plant Ecology and Taxonomy**
3. **Plant Anatomy and Embryology**
4. **Plant Physiology and Metabolism**
5. **Economic Botany and Biotechnology**
6. **Environmental Biotechnology**

### SKILL ENHANCEMENT COURSES (SEC)

**YEAR 3: SEMESTER V: SE- 1, SEMESTER VI: SE-2**

**(Any two from the following; One each for each SE course)**

1. Floriculture
2. Mushroom Culture Technology
3. Biofertilizers
4. Ethnobotany
5. Plant Diversity and Human Welfare
6. Medicinal Botany
7. Herbal Technology