

HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH 'A+' GRADE (CYCLE:2)

Tripura University Reg. Code: 17

Jubatara, P.O. Lembucherra, Tripura West Pin-799210

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DEPARTMENT OF BOTANY

No.F.1/HCC/BOT/Std./May./2024/03

Date: 06.05.2024

Notice

Internal Examination Syllabus (May, 2024) for 2nd (NEP), 4th & 6th Semester Botany Major, Minor, Honours & General are as follows:

2nd Semester-Major (NEP)

2nd Semester Major: Paper 3 (Theory): BT 103C

- Unit I: Riccia sp. and Marchantia sp.: External & internal structure; sporophytic & gametophytic structure and life cycle.
- Unit II: General Characters of pteridophytes; Type genus- Lycopodium.
- Unit III: Cycus sp. -Life Cycle (Morphology, Anatomy, Reproduction).
- Unit IV: Significant contributions of Indian Paleobotanist: Dr. Birbal Sahani, Definition of fossil, Conditions required for fossilisation, fossilisation process, Types of fossil (Body fossil Micro- and Megafossils, Trace fossil, Chemical fossil, Index fossil), Modes of preservation (after Schopf, 1975).

2nd Semester Major: Paper 4A (Theory): BT 104C

 Indian Gondwana flora system – Three fold division with major mega-fossil assemblages.

2nd Semester Major: Paper 4B (Practical): 104C

- Workout- Lycopodium sp.
 & Sclaginella sp.
- Identification.
- Practical Note Book Submission.

2nd Semester-Minor (NEP)

2nd Semester Minor: Paper 2A (Theory): BT 102M

- Unit I: Riccia and Marchantia: External & internal structure; sporophytic & gametophytic structure and life cycle.
- Unit II: General Characters of pteridophytes; Type genus-Lycopodium.
- Unit III: Cycas sp. -Life Cycle (Morphology, Anatomy, Reproduction).

2nd Semester Minor: Paper 2B (Practical): BT 102M

- Workout- Pteris sp. & Selaginella sp.
- Identification.
- Practical Note Book Submission.



"Educating hearts and minds"

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•	Unit IV: Definition of fossil, Conditions required for
	fossilisation, fossilisation process, Types of fossil
	(Body fossil- Micro- and Mega-fossils, Trace fossil,
	Chemical fossil, Index fossil.

4th Semester (Honours)

4th Semester (Honours) - Theory

- Unit I: Inflorescence, adhesion cohesion flower types, Fruit, Micro and megasporogenesis, Micro and mega gametogenesis, Endosperm Development, Embryo Development.
- Unit II: Meristematic and Permanent tissue, Habitat and Niche, Ecological Succession, Vegetation of Tripura.

4th Semester (Honours) -Practical

- Identification- Different forms of Placentation & Fruits.
- Practical Note Book Submission.

4th Semester (General)

4th Semester (General) - Theory

- Unit I: Inflorescence, adhesion cohesion flower types, Fruit
- Unit II: Meristematic and Permanent Tissue, Habitat and Niche, Ecological Succession, Vegetation of Tripura.

4th Semester (General) -Practical

- Identification- Different forms of Placentation & Fruits.
- Practical Note Book Submission.

6th Semester (Honours)

6th Semester (Honours) - Theory

- Unit I: Protein & Lipid.
- Unit II: Photosynthesis.
- Unit III: Classification of crude drug, Importance of Pharmacognosy, Alkaloids.
- Unit IV: Totipotency, Callus Culture.

6th Semester (Honours) -

Practical

- All Plant Physiology Experiments.
- Biochemistry.
- Practical Note Book Submission.

HoD, Department of Botany Holy Cross College Agartala

Department of Botany,
HOLY CROSS COLLEGE, AGARTALA