**KARIM CITY COLLEGE, JAMSHEDPUR**

**DEPARTMENT OF BOTANY**

**SYLLABUS DISTRIBUTION**

**AS PER FYUGP, NEP -2022**

**MAJOR -02 SESSION (2022-2026) CREDIT-04 THEORY-03 PRACTICAL-01**

**BRYOPHYTES & PTERIDOPHYTES MAJOR PAPER -03 SEMESTER: II**

Course outcomes: - 1. On completion of this course, the students will be able to:

Demonstrate an understanding of Bryophytes and Ptridophytes e (Archegoniate).

2. Develop critical understanding on morphology, anatomy and reproduction of

Bryophytes and Pteridophytes. 3. Understanding of plant evolution and their

transition to land habitat. 4. Demonstrate proficiency in the experimental

techniques and methods of appropriate analysis of Bryophytes and Pteridophytes.

**DR.AFTAB ALAM KHAN: TIME: 02 HOURS 20- LECTURES**

General characteristics: Adaptations to land habit; Classification (up to family);

Range of thallus organization. Morphology, anatomy, reproduction and

evolutionary trends in Riccia, Marchantia, Anthoceros, Sphagnum and Funaria;

Progressive sterilization of Bryophytes. Ecological and economic importance with

special reference to Sphagnum

**DR. SHARMILA CHAKRABORTY: 25 LECTURES**

Unit II: General characteristics; Classification (up to family); General account of

early land plants. Morphology, anatomy and reproduction of Psilotum, Selaginella,

Equisetum and Pteris (Developmental details not to be included). Apogamy and

apospory, heterospory and seed habit, telome theory, stellar evolution; Common

ferns of India, Ecological and economic importance.