**KARIM CITY COLLEGE, JAMSHEDPUR**

**DEPARTMENT OF BOTANY**

**SYLLABUS DISTRIBUTION**

**AS PER FYUGP, NEP -2022**

**MAJOR -02 SESSIONS (2022-2026) CREDIT-06 THEORY-03 PRACTICAL-01**

**MYCOLOGY & PHYCOLOGY PHYTOPATHOLOGY MAJOR PAPER -02**

DR. AFTAB ALAM KHAN:

FULL MRKS: 60 TIMES: 3 HOURS 10 lecture:

Unit I: Introduction – General characters, ecology and significance, range of

thallus organization ,nutrition, reproduction and classification (Alexopolus).

Economic Importance of fungi.

Unit II: General characteristics; ecology significance and Life cycle of Rhizopus,

peziza, puccinia, &amp; Cercospora.

**DR. SHARMILA CHAKRABORTY: 10 LECTURES:**

**Unit III:** Lichen – Occurrence; General characteristics; Growth forms and range

of thallus organization; Economic importance of Lichen; Mycorrhiza-

Ectomycorrhiza, Endomycorrhiza and their significance.

**Unit IV:** Phytopathology 15 lectures Terms and concepts; General symptoms;

Geographical distribution of diseases; Etiology; Symptomology; Host-Pathogen

relationships; Disease cycle and environmental relation; prevention and

control of plant diseases, and role of quarantine. Bacterial diseases – Citrus

canker and angular leaf spot of cotton. Viral diseases – Tobacco Mosaic viruses,

vein clearing. Fungal diseases – Early blight of potato, Black stem rust of wheat,

White rust of crucifers.