

**FY BSc BOTANY SYLLABUS**  
**SEMESTER I**

**Paper- I (104101): Algae, Fungi, Lichens , Bacteria, Viruses**

**Algae**

General Characters of Algae  
Structure, Life-Cycle and Systematic Position of *Nostoc* and *Zygnema*.  
Economic Importance of Algae

**Fungi**

General Characters of Fungi  
Structure, Life-cycle and Systematic position of *Rhizopus* and *Aspergillus*  
Economic Importance of Fungi.

**Lichens**

Classification, Structure, Nature of Association, Forms of Thalli, Methods of Reproduction,  
Economic Importance and Ecological Significance of Lichens.

**Bacteria**

Occurrence, Characteristics, Classification, Morphological Forms, Ultrastructure, Growth, Reproduction and  
Economic Importance of Bacteria.

**Viruses**

Occurrence, Characteristics, Classification, Morphological Forms, Ultrastructure, Multiplication and Economic  
Importance of Viruses  
TMV – Structure and Multiplication