Year wise courses and marks distribution

First Year (Honours)

Detailed Syllabus

Course Code ........ : Mycology
100 Marks, 4 Credits, 60 Lectures

1. Introduction: The subject Mycology and its scope
2. Myxomycetes: A brief account of the habit, habitats, structure, reproduction and importance of the group.
3. Fungi: General characteristics, ultrastucture, somatic structure, cell wall composition, growth, nutrition, reproduction, sexual compatibility.
5. General characteristics of the following fungal classes and study of the somatic and reproductive features of the genera mentioned against each class:
   (i) Chytridiomycetes: *Olpidium, Synchytrium*;
   (b) Oomycetes: *Saprolegnia, Phytophthora* and *Albugo*;
   (c) Zygomycetes: *Rhizopus*;
   (d) Ascomycetes: *Saccharomyces, Aspergillus, Penicillium, Erysiphe, Meliola, Claviceps, Neurospora*;
   (e) Basidiomycetes: *Puccinia, Ustilago, Tilletia, Polyporus, Agaricus*;
   (f) Deuteromycetes: *Candida, Alternaria, Cercospora, Fusarium, Macrophomina, Colletotrichum and Marssonina*.
6. A general discussion on the role of fungi as: (i) Saprophytes in nature, (ii) Plant parasites, (iii) Mycorrhizae as plant symbionts, and (iv) Producers of important metabolites.
7. Lichen: Habitats, habit, morphology (thallus types), anatomy, reproduction and importance.

Books Recommended