

Syllabus

Multidisciplinary Courses - Botany Introduction of Botany

| Semester | Code of the Course | Title of the Course/Paper | Credits |
|----------|--------------------|---------------------------|---------|
| III | | Introduction of Botany | 4 |

Objectives of the course- To impart knowledge of Botany to students of other than science. Botany is used in day today life of everyone. It also plays very significant role in

Course Outcomes-

1. To make the students familiar with economic importance of diverse plants that offer resources to human life.
2. To make the students known about the plants used as-food, medicinal value and also plant source of different economic value.
3. To generate interest amongst the students on plants importance in day today life, conservation, ecosystem and sustainability.

Course learning outcomes:

By the end of this course, the student will be able to:

1. Describe plants of different groups
2. Understand plants found in different habitats.
3. Will recognize the plants of economic importance.
4. Recognize that plants, which can be utilized in various forms.

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Introduction of Botany

syllabus

Unit-I

Concept to understand plants; history of plant classification; general characteristics of major plant groups-bacteria, algae, fungi, Bryophyte, Pteridophyta, Gymnosperms and Angiosperms, general life cycle of an Angiospermic plant.

8 lectures

Unit-II

Classification of plants on the basis of habit, habitat and longevity with examples; Morphology, function and types of roots, stem and leaves (brief overview); flower structure; basic fruit and seed structure.

7 lectures

Unit-III

Economic importance of plants: Common name, Scientific name, distribution, cultivation practices, part used and uses of- plants used as food (Wheat, Rice, Gram, Arhar); as fruits (Banana, Mango, Watermelon, Papaya, Apple); as oilseed (Mustard, Groundnut)

8 lectures

Unit-IV

Economic importance of plants: Common name, Scientific name, distribution, cultivation practices, part used and uses of- plants used as spices (Cumin, Coriander, Chili, Laung, Asfoetida); as wood (Sal, deodar, Sheesham); as medicine (Tulsi, Neem, *Aloe vera*, Giloy).

7 lectures

Books Recommended

1. NCERT class 11 and 12, Biology
2. A text book of Botany- Singh, Pandey and Jain, Rastogi Publication
2. Pandey, B.P. (1999). Economic Botany. S. Chand, New Delhi.


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