

Semester-II

Title of the Course : Conservation and Cultivation of Orchids

Nature of course : SEC-II

Course code :

Total Credits : 03

Distribution of Marks: 60+40=100

Course outcome

1. Identify locally available orchids
2. Organise locally available orchids based on their commercial value
3. Develop strategies for orchid culture and conservation.

Learning outcomes

1. Describe locally available orchids
2. Demonstrate the commercial and ecological importance of orchids
3. Examine the strategies for orchid culture and conservation

Mapping of CO with Bloom's taxonomy

Knowledge Dimension	Remember	Understand	Apply	Analyze	Evaluate	Create
Factual						
Conceptual		CO1				
Procedural		CO3		CO2		
Metacognitive						

Mapping of Course outcomes to Programme outcomes

Attainment of Cos:

1. Continuous evaluation through in and end semester theory and practical examinations
2. Field demonstration of local flora and fauna
3. Demonstration of biodiversity conservation models
4. Participation in seminar/conference

Total Lectures: 45

Unit-I: Introduction to Orchids

(7 lectures)

Salient features, habitat, origin and diversity, morphology and classification of orchids, Economic importance of Orchids.

Unit-II:

(7 lectures)

Common and endemic Orchids of North East India: status and distribution; RET species of Orchids of India with special reference to NE India

Unit-III-

(8 lectures)

Propagation of Orchids: Different methods of propagation of orchids (cutting and hybridization), Substratum/soil preparation of orchids, nutritional and environmental requirement maintenance of orchidarium, *In-vitro* propagation of orchids.

Unit-IV

(8 lectures)

Conservation of Orchids: *in-situ* and *ex-situ* conservation, Conservation of habitats and host plants.

Unit-V

Practical- Identification of orchids, Demonstration of vegetative propagation of orchids, preparation of substrata for economically importance orchids, exposure visit to Orchidarium.