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HORT-111

Fundamentals of Horticulture

2(1+1)

Theory

Horticulture - Its definition and branches, importance and scope; Horticultural and botanical classification; Climate and soil for horticultural crops; Nursery raising and its importance; Plant propagation-methods; Propagating structures; Seed dormancy and Seed germination; Principles of orchard establishment; Principles and Methods of training and pruning; Juvenility and flower bud differentiation; unfruitfulness; pollination, pollinizers and pollinators; fertilization and parthenocarpy; Medicinal and Aromatic plants-importance and scope; Importance of plant bio-regulators in horticulture; Irrigation – methods, Fertilizer application in horticultural crops.

Practical

Identification of garden tools. Identification of horticultural crops. Preparation of seed bed/nursery bed. Practice of sexual and asexual methods of propagation including micropropagation. Layout and planting of orchard. Training and pruning of fruit trees. Preparation of potting mixture. Fertilizer application in different crops. Layout and components of a model nursery. Visits to commercial nurseries/orchard.

Lecture Schedule:Theory

S.N.	Topics	No.of lectures
1.	Horticulture - Its definition and branches, importance and scope	1
2.	Horticultural and botanical classification	1
3.	Climate and soil for horticultural crops	1
4.	Nursery raising and its importance	1
5.	Plant propagation-methods	2
6.	Propagating structures	1
7.	Seed dormancy and Seed germination	1
8.	Principles of orchard establishment	2
9.	Principles and Methods of training and pruning	1
10.	Juvenility and flower bud differentiation; unfruitfulness; pollination, pollinizers and pollinators; fertilization and parthenocarpy	1
11.	Medicinal and Aromatic plants- importance and scope	2

12.	Importance of plant bio-regulators in horticulture	1
13.	Irrigation – methods, Fertilizer application in horticultural crops	1

Lecture Schedule:Practical

S.N.	Topics	No.of lectures
1.	Identification of Horticultural crops	1
2.	Identification of garden tools	1
3.	Preparation of seed bed/nursery bed	1
4.	Practice of sexual and asexual methods of propagation	3
5.	Micro-propagation	1
6.	Layout and planting of orchard	2
7.	Training and pruning of fruit trees	1
8.	Preparation of potting mixture	1
9.	Fertilizer application in different crops	1
10.	Layout and components of a model nursery	2
11.	Visits to commercial nurseries/orchard	2

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