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HORT-223 Hi-tech. Horticulture 3(2+1)

Theory

Introduction & importance of Hi-tech Horticulture; Nursery management and mechanization; micro propagation of horticultural crops; Modern field preparation and planting methods, Protected cultivation: advantages, controlled conditions, method and techniques, Micro irrigation systems and its components; EC, pH based fertilizer scheduling, canopy management, high density orcharding, Components of precision farming: Remote sensing, Geographical Information System (GIS), Differential Geopositioning System (DGPS), Variable Rate applicator (VRA), application of precision farming in horticultural crops (fruits, vegetables and ornamental crops); mechanized harvesting of produce.

Practical

Types of polyhouses and shade net houses, Intercultural operations, tools and equipments identification and application, Micro propagation, Nursery-protrays, micro-irrigation, EC, pH based fertilizer scheduling, canopy management, visit to hi-tech orchard/nursery. **Lecture schedule: Theory**

S.N.	Topics	No.of lectures
1.	Introduction & importance of Hi-tech Horticulture	2
2.	Nursery management and mechanization	2
3.	Micro propagation of horticultural crops	2
4.	Modern field preparation and planting methods	2
5.	Protected cultivation: advantages, controlled conditions, method and techniques	2
6.	Micro irrigation systems and its components	2
7.	EC, pH based fertilizer scheduling	2
8.	Canopy management	3
9.	High density orcharding	2
10.	Components of precision farming: Remote sensing	2

11.	Geographical Information System (GIS)	2
12.	Differential Geo-positioning System (DGPS)	2
13.	Variable Rate applicator (VRA)	2
14.	Application of precision farming in horticultural crops (fruits, vegetables and ornamental crops)	3
15.	Mechanized harvesting of produce	2

Lecture schedule: Practical

S.N.	Topics	No.of lectures
1.	Types of polyhouses and shade net houses	2
2.	Intercultural operations	2
3.	Tools and equipments identification and application	1
4.	Micro propagation	2
5.	Nursery-protrays	1
6.	Micro-irrigation	1
7.	EC, pH based fertilizer scheduling	2
8.	Canopy management	4
9.	Visit to hi-tech orchard/nursery	1

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