

## Syllabus for B.Sc. (Hons) Agriculture Year – II (Sem. IV)

**Subject Code:** 16AS0419

**Subject Short Name:** SEC. 4.6

**Subject Name:** Horticulture Nursery Management

### Objective:

1. To develop skills to produce high-quality fruit crops planting material.
2. To learn how to produce commercially important ornamentals in a nursery, multiply ornamental plants to meet the demand of landscape industry and how to protect and cultivate high value flowers and vegetables.
3. To develop enterprise management skills in the commercial based horticulture

**Credits Earned:** 2 Credits (0+2)

**Course Outcomes:** After completion of this course, Students will be able to

- Select appropriate horticultural crops based on market demand, climatic conditions, soil suitability, and other factors.
- Understand effective crop management practices, including planting, irrigation, fertilization, pest and disease control, and harvesting techniques of horticultural crops.
- Provide knowledge on greenhouse and nursery management practices, including greenhouse construction, environmental control, propagation techniques, container production, and management of ornamental and specialty crops.
- Develop skills in marketing horticultural products, including market analysis, branding, pricing strategies, distribution channels, and sales techniques tailored to the horticultural industry.

Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
Theory	Tutorial	Practical		ESE (E)	Mid Sem. (M)	Progressive Assessment (PA)	Viva (V)	Term work (TW)	
0	0	4	2	0	30	20	25	25	100

**Practical Content:**

<b>Unit</b>	<b>Topics</b>	<b>Contact Hours</b>
1	Nursery production of fruit crops	2
2	Nursery production of ornamental plants	2
3	Protected cultivation of vegetable seeds and seedlings	2
4	Propagation of fruits, vegetables and ornamental crops	2
5	Terrace and kitchen gardening	2
6	Raising of rootstocks of vegetables and ornamental plants	4
7	Procurement, transplanting, management and maintenance of vegetable and ornamental crops	4
8	Post-harvest management, selling and marketing of seedlings and farm products	2
9	Preparation of kokedama, hanging basket and flower pots	4
10	Drying techniques of ornamental plants	4
11	Flower arrangement techniques	4
12	Production of ornamental vegetables	2
13	Visit to various nursery/orchards	4
	<b>Total</b>	<b>40</b>

**Reference Books:**

- Commercial Horticulture, Patel, N. L. *et al.*, NIPA Publishers, India, 2015
- Commercial Floriculture, Chhatopadhyay, S. K., Gene Tech Publishers, India, 2008
- Production of Horticultural Crops and Industrial Crops, Sethunath, P. K. and Tiwari, N. K., Garuda Prakashan, India, 2014
- Commercial Production of Horticultural Crops, Samaddar, H. N., Daya Publishing House, India, 2001

### **Suggested Theory distribution:**

The suggested theory distribution as per Bloom's taxonomy is as per follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process.

Distribution of Theory for course delivery and evaluation					
Remember	Understand	Apply	Analyze	Evaluate	Create
25%	25%	20%	10%	10%	10%

### **Instructional Method:**

1. The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by white board may also use any of tools such as demonstration, role play, quiz, brain storming, MOOCs etc.
2. The internal evaluation will be done on the basis of continuous evaluation of students in the class-rooms.
3. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory/ field.
4. Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.