

Part A Introduction

Program: Certificate	Year: First Year	Session: 20-21
Course Code	VI-HOR-HORT	
Course Title	Horticulture	
Course Type	Vocational	
Pre-requisite (if any)	Student must have studied Biology up to 12 th standard	
Course Learning outcomes (CLO)	After studying this Course the Student will be able to identify floral plants, market demand and techniques of raising, growing and cultivation techniques	
Expected Job Role / career opportunities	Learner of this course would explore job and employment opportunities in floral marketing, gardening and essential oil related industries.	
Credit Value	4	

Part B- Content of the Course

Total No. of Lectures + Practical (in hours per week): L-1 Hr / P-1 Lab Hr		
Total No. of Lectures/ Practical: L-30hrs/P-30hrs		
Module	Topics	No. of Hours
I	History, Scope and importance of horticulture in India. Commercial horticulture in India. Industrial importance of ornamental flowers and plants. Ornamental plants their classification and cultivation- Annuals, Shrubs and shrubberies. Hedges, edging, ornamental climbers.	10
II	Production techniques of ornamental plants for domestic and export market of following flower crops- Rose, Marigold, Chrysanthemum, Gladiolus, Jasmine, Dahalia, Tuberose, Bird of paradise, gerbera, Crossandra, Post harvest technology of cut and loose flowers. Dehydration techniques. Production of indoor plants and their maintenance. Flower arrangements: types and styles.	12
III	Growing plants under protected environment such as Glass house, Net house. Methods of establishing lawns and their management including irrigation, fertilization, mowing, insect-pest and diseases and their control.	08

Practical	
<ol style="list-style-type: none"> 1. Identification and description of annuals, herbaceous, perennials. 2. Identification of commercially important floricultural crops. 3. Propagation technique in gladiolus, carnation. Propagation technique in chrysanthemum and tuberose. 4. Propagation of ornamental plants with particular reference to cutting 5. Propagation of ornamental plants with particular reference to layering 6. Use of chemicals and other compounds for prolonging the vase life of cut flowers. 7. Flower arrangement practices. 	30

Project/ Field trip: Visit to commercial Horticulture/ Floriculture unit and Report

Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- Singh ,A.K..2006.Flower crops, cultivation and management. New India publishing agency, Pitampura, New Delhi.
- Arora, J.S. 2006. Introductory Ornamental Horticulture. Kalyani Publishers, Ludhiana
- Bhattacharjee, S.K. Advanced Commercial Floriculture. Aavishkar Publishers Distributors,, Jaipur
- Dewasish Choudhary and Amal Mehta. 2010. Flower crops cultivation and management. Oxford book company Jaipur, India.
- Randhawa, G.S. Amitabha Mukhopadhyay, 2004. Floriculture in India. Allied Publishers Pvt., Ltd:
- S.K. Bhattacharjee and L.C. De. 2003. Advanced Commercial Floriculture. Aavishkar, Publishers, Distributors, Jaipur (Rajasthan).
- T.K. Bose, L.P. Yadav, P. Patil, P. Das and V.A. Partha Sarthy.2003.Commercial flowers. Partha Sankar Basu, Nayaudyog,206,
- Bidhan Sarani, Kolkata-700006 V.L. Sheela, 2008. Flower for trade . New India Publishing Agency, Pitampura, New Delhi.

Suggested equivalent online courses: e-reading: <http://ecourses.iasri.res.in>