



1 **DEPARTMENT OF HORTICULTURE**  
2 **FACULTY OF AGRICULTURAL SCIENCES**  
3 **University of the Punjab, Lahore**  
4

Programme	B.Sc. (Hons.) Agriculture	Course Code	HORT-305	Credit Hours	3(2-1)
Course Title	<b>PRINCIPLES OF ORNAMENTALCROP PRODUCTION</b>				
<b>Course Introduction</b>					
This course is designed to provide a comprehensive understanding of Principles of Ornamental crop production. The principles of ornamental crop production encompass a range of practices aimed at cultivating plants primarily for decorative purposes. These principles include selecting appropriate plant species and varieties that thrive in specific climates and soil conditions, ensuring optimal spacing and arrangement to enhance aesthetic appeal and plant health, and implementing efficient irrigation systems to meet water requirements without wastage.					
<b>Learning Outcomes</b>					
Upon completing the course, students will gain: An understanding of the fundamental principles and physiology of ornamental crop production within the field of Horticulture.					
<b>Course Content</b>			<b>Assignments/Readings</b>		
<b>Week 1</b>	<b>Unit-I</b>				
	1.1 Introduction to Ornamental crop production 1.2 Importance of Ornamental				
	1.3 Classification of Ornamental crops				
<b>Week 2</b>	<b>Unit-II</b>				
	2.1 Raising of important annuals				
	2.2 Growing of flowering perennials				
<b>Week 3</b>	<b>Unit-III</b>				
	3.1 Foliage plants				
	3.3 Succulents and their types 3.4 Flowering bulbs				
<b>Week 4</b>	<b>Unit-IV</b>				
	4.1 Propagation and its techniques 4.2 Crop management practices				
<b>Week 5</b>	<b>Unit-V</b>				
	5.1 Seed dormancy				
	5.2 Bulb dormancy				

<b>Week 6</b>	<b>Unit-VI</b>	
	6.1 Recent trends in Ornamental crop production	
	6.2 Factors affecting ornamental crop production	
<b>Week 7</b>	<b>Unit-VII</b>	
	7.1 Pruning, training and shaping	
	7.2 Use of growth regulators	
<b>Week 8</b>	<b>Unit-VIII</b>	
	8.1 PGRs	
	8.2 Crop management	
<b>Week 9</b>	<b>Unit-IX</b>	
	9.1 Manipulation of growth	
<b>Week 10</b>	<b>Unit-X</b>	
	10.1 Manipulation of Flowering	
	10.2 Concept of Bonsai	
<b>Week 11</b>	<b>Unit-XI</b>	
	11.1 Concept of topiary	
<b>Week 12</b>	<b>Unit-XII</b>	
	12.1 Outdoor and indoor decoration	
	12.2 their management	
<b>Week 13</b>	<b>Unit-XIII</b>	
	13.1 Flower exhibition	
	13.2 Aesthetic Value	
<b>Week 14</b>	<b>Unit-XIV</b>	
	14.1 Flower arrangements	
<b>Week 15</b>	<b>Unit-XV</b>	
	15.1 Breeding	
<b>Week 16</b>	<b>Unit-XVI</b>	
	16.1 Improving varieties	

## PRACTICAL

<b>Week 1</b>	Identification of annuals, herbaceous and perennials	
<b>Week 2</b>	Nursery raising	
<b>Week 3</b>	Training and pruning	
<b>Week 4</b>	Planting and cultural operations	
<b>Week 5</b>	Importance and role of seeding in plant production Types of seeds and their characteristics	
<b>Week 6</b>	Transplanting of nursery	
<b>Week 7</b>	Foliage plants, Varieties and types	
<b>Week 8</b>	Marketing of important vegetables	
<b>Week 9</b>	Overview of succulents, • Types of succulents and their natural habitats	
<b>Week 10</b>	Flowering bulbs with their propagation methods	
<b>Week 11</b>	Management practices (pinching, disbudding, deshooting etc.)	
<b>Week 12</b>	Flower exhibitions and growing structures.	
<b>Week 13</b>	Methods of breaking seed	
<b>Week 14</b>	Bulb dormancy, Importance of dormancy in bulb life cycle	
<b>Week 15</b>	Visits to ornamental nurseries	
<b>Week 16</b>	Visits to parks, cut flower shops	

### Textbooks and Reading Material

1. Arora, J.S. 2003. Introductory Ornamental Horticulture (4<sup>th</sup> Ed.). Kalyani Publishers, New Delhi.
2. Larson, RA. 1980. Introduction to Floriculture. Academic Press, New York.
3. Chadha, K.L and B. Choudhary. 1986. Ornamental Horticulture in India. Indian Council of Agricultural Research, New Delhi.
4. Laurie, A. and Ries V.S. 2004. Floriculture: Fundamentals and Practices. Agrobios (India), Jodhpur, India.
5. Hessayon, D.G. 2007. The Flowering Shrubs Expert (3<sup>rd</sup> Ed.). Transworld Publishers, London, U.K.

### Teaching Learning Strategies

1. Lectures
2. Discussions
3. Presentations
4. Quiz
5. Assignments

### Assignments: Types and Number with Calendar

Compare the growth performance of ornamental plants in different growing mediums (e.g., soil, peat-based mix, hydroponic solution). Provide a detailed analysis of plant health, growth rates, and overall performance.

### Assessment

Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	35%	Written Assessment at the mid-point of the semester.

2.	Formative Assessment	25%	Continuous assessment includes: Classroom participation, assignments, presentations, viva voce, attitude and behavior, hands-on-activities, short tests, projects, practical, reflections, readings, quizzes etc.
3.	Final Assessment	40%	Written Examination at the end of the semester. It is mostly in the form of a test, but owing to the nature of the course the teacher may assess their students based on term paper, research proposal development, field work and report writing etc.

5

6