FACULTY OF AGRICULTURAL SCIENCES UNIVERSITY OF THE PUNJAB, LAHORE

Programm	e B.Sc. (Hons.) Agriculture	Course Code	Hort-102	Credit Hours	3 (2-1)
Course Titl	e INTRODUCTORY HO	ORTICULTU	RE		
	Course Introduction				
This foundational course in horticulture provides students with a comprehensive overview of the fundamental principles and techniques essential to the field. Through this course, students will gain a solid understanding of key plant science concepts, including:					
- Morpholog	- Morphology: the study of plant structure and form				
- Anatomy: the examination of plant internal structure					
- Taxonomy:	- Taxonomy: the classification and identification of plant species				
- Physiology: the exploration of plant functions and processes					
- Genetics: the study of plant heredity and variation					
- Propagation	- Propagation: the methods and techniques for reproducing plants				
These concepts will be explored in the context of horticulture, providing students with a strong foundation for further study and practical application in the field.				h a strong	
		rning Outcomes			
 On the completion of the course, the students will: 1. To provides the knowledge to solve many of the problems commonly faced in keeping plants healthy. 2. Acquaint the student with the broad field of horticulture including greenhouse and nursery crops. 3. To provide the basic knowledge of ornamental horticulture, pomology, and olericulture. 					
Course Content Assignments/Readings					dings
Week 1	Unit-I				
1	.1 Introduction to Horticulture				

	1.2 History of Horticulture			
	1.3 relationship with other disciplines			
	1.4 future scope of Horticulture			
	Unit-II			
Week 2	2.1 Definition and divisions of horticulture			
	2.2 Classification of horticultural crops			
	Unit-III			
	3.1 Modification of plant parts			
Week 3	3.2 their functions			
	3.3 Plant environment			
	3.4 climate (temperature, light, humidity etc)			
	3.5 soil (structure, texture, fertility etc)			
	Unit-IV			
	4.1Establishment of orchards			
Week 4	4.2 and vegetable & ornamental gardens			
	4.3 Site selection			
	4.4 Layout methods and wind breaks			
	Unit-V			
Week 5	5.1 Management practices			
week 5	5.2 Harvesting, post-harvest handling			
	5.3 Marketing of important horticultural crops			
	Unit-VI			
Week 6	6.1 Irrigation management:			
	6.2 Fertilizers & manures			
	6.3 training and pruning			
Week 7	Unit-VII			
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	7.1 Climate				
	7.2 soil				
	7.3 propagation				
	7.4 rootstocks				
	Unit-VIII				
Week 8	8.1 cultivars				
	8.2 important pests				
	Unit-IX				
Week 9	9.1 Harvesting				
	9.2 Post-harvest handling				
	Unit-X				
Week 10	10.1 Marketing of important horticultural crops				
	10.2 Future Crisis in Pakistan				
	Unit-XI				
Week 11	11.1 Importance of fruits				
	11.2 Importance of Vegetables and ornamental				
	Unit-XII				
Week 12	12.1 Pest and diseases				
	12.2 solution				
	Unit-XIII				
Week 13	13.1Food Marketing				
	13.2 Marketing strategies				
	Unit-XIV				
Week 14	14.1Quality factors in fruit				
	14.2Quality factors in vegetables and ornamental				

Week 15	Unit-XV					
	15.1 Modern technology					
	Unit-XVI					
Week 16	16.1 course review					
	PRACTICAL					
Week 1	Visit of nurseries, commercial gardens and public parks.					
Week 2	Identification and nomenclature of important fruits, vegetables and ornamental plants.					
Week 3	Garden tools and their uses.					
Week 4	Media preparation.					
Week 5	Techniques of propagation.					
Week 6	Practice in layout methods.					
Week 7	Planting and after care.					
Week 8	Production techniques of important cultivars of horticultural crops of the region.					
Week 9	Selection of plants from nursery					
Week 10	propagation methods.					
Week 11	identification of important cultivars					
Week 12	Nursery management and Parks designing					
Week 13	Harvesting of ornamental plants					
Week 14	Post-harvest handling techniques					
Week 15	Landscape ecology					
Week 16	Performance overview					

Textbooks and Reading Material

- 1. Acquaah, G. 2009. Horticulture: Principles and Practices (4th Ed.). Prentice-Hall India Learning Pvt. Ltd. New Delhi, India.
- 2. Arora, J.S. 1992. Introductory Ornamental Horticulture. Kalyani Publishers, New Delhi.
- **3.** Dhaliwal, M.S. 2008. Handbook of Vegetable Crop. Kalyani Publishers, Ludhiana, New Delhi, India.
- 4. Malik, M.N. 1994. Horticulture, National Book Foundation, Islamabad.
- 5. Singh, B. 2007. Horticulture at a Glance. Kalyani Publishers, Ludhiana, New Delhi, India.

Teaching Learning Strategies

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

Assignments: Types and Number with Calendar

- **1.** As per University Rules
- 2. Types and Number with calendar

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.	