FACULTY OF AGRICULTURAL SCIENCES UNIVERSITY OF THE PUNJAB, LAHORE

Program	me BS-Agribusiness	Course Code	AB-203	Credit Hours	3 (2-1)					
Course T	itle PRINCIPLES OF HOR	RINCIPLES OF HORTICULTURAL		CROP PRODUCTION						
	Course Introduction									
This course	This course is designed to introduce the student to the basic concepts and skills utilized in horticulture.									
Students w	vill receive an introduction to basi	c Plant science	concepts sucl	n as morphology	, anatomy,					
taxonomy,	taxonomy, physiology, genetics, and propagation as they apply to horticulture.									
	Lear	rning Outcomes								
On the con	pletion of the course, the students	will:								
1.	To provides the knowledge to so	olve many of the	e problems c	ommonly faced	in keeping					
	plants healthy.									
2.	Acquaint the student with the broa	d field of horticu	lture includin	g greenhouse and	1 nursery					
crops. 3. To provide the basic knowledge of ornamental horticulture, pomology, and olericulture.										
3.	To provide the basic knowledge of	f ornamental nort	iculture, pom	ology, and oleric	ulture.					
	Course Content		A	ssignments/Rea	dings					
	Unit-I			-						
1.1 Introduction to Horticulture										
Week 1	1.2 History of Horticulture									
	1.3 relationship with other discipli	nes								
	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									
Week 3	3.1 Modification of plant parts									
	3.2 their functions									
WEEK 5	3.3 Plant environment									
	3.2 their functions 3.3 Plant environment 3.4 climate (temperature, light, humidity etc)									
	3.5 soil (structure, texture, fertility	y etc)								
	Unit-IV 4 1Establishment of orchards									
Weels 4	4.1Establishment of orchards									
Week 4	4.2 and vegetable & ornamental gardens									
	eek 4 4.2 and vegetable & ornamental gardens 4.3 Site selection 4.4 Layout methods and wind breaks									
	4.4 Layout methods and wind breaks Unit-V									
Week 5	5.1 Management practices									
	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	
	7.1 Climate 7.2 soil	
Week 7	7.3 propagation	
	7.4 rootstocks	
	Unit-VIII	
Week 8	8.1 cultivars	
VV CCIX O	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	
Week 14	Unit-XIV	
	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 Business Management in Horticultural crops	
	PRACTICAL	

Week 1	Visit of nurseries, commercial gardens and public parks.			
Week 2	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	Week 11 identification of important cultivars			
Week 12	Veek 12 Nursery management and Parks designing			
Week 13	k 13 Harvesting of ornamental plants			
Week 14				
Week 15				
Week 16				
	Textbooks and Reading Materia	վ		
Pvt. Lto 2. Arora, 3. Dhaliw India. 4. Malik,	 ah, G. 2009. Horticulture: Principles and Practices (4th d. New Delhi, India. J.S. 1992. Introductory Ornamental Horticulture. Kalyani val, M.S. 2008. Handbook of Vegetable Crop. Kalyani P M.N. 1994. Horticulture, National Book Foundation, Islan B. 2007. Horticulture at a Glance. Kalyani Publishers, Luc 	Publishers, New Delhi. ublishers, Ludhiana, New Delhi, nabad.		
	Teaching Learning Strategies			
	Lectures Discussions			
2. 3.	Presentations			
<i>3</i> . 4.	Quiz			
5.				
	Assignments: Types and Number with	Calendar		
1. 2.	As per University Rules Types and Number with calendar			

Assessment				
Sr. No.	Elements	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.	