

DEPARTMENT OF HORTICULTURE

FACULTY OF AGRICULTURAL SCIENCES

University of the Punjab, Lahore

3 University of the Punjab, Lahore								
Programm	ne B.Sc. (Hons.) Agricul	lture	Course Code	HORT- 306	Credit Hours	3		
Course Ti	le Summer Vegetables	S						
Course Introduction								
	This course will explores the production, management, and culinary uses of summer							
vegetables, from warm-season crops like tomatoes, okra and peppers to refreshing favorites like cucumbers and squash.								
	Learning Outcomes							
On the comp	On the completion of the course, the students will:							
 Students will be able to recognize and categorize various summer vegetables, including their botanical names and characteristics. Students will learn about the specific growing conditions, soil, temperature, and watering needs for different summer vegetables. Students will understand how to plan, layout, and manage a summer vegetable garden, including crop rotation and spacing. Students will learn techniques for sowing, transplanting, pruning, and training summer vegetables for 								
5. Stude	 optimal growth and yield. 5. Students will understand how to identify and manage common pests and diseases affecting summer vegetables using integrated pest management techniques. 							
	Course Conten	nt		A	.ssignments/Readi	ngs		
Unit-I Week 1 1.1 Introduction 1.2 Importance and issues								
	Unit-II	Unit-II						
Week 2	2.1 Importance and issues							
	2.2 Types of vegetable farming							
Week 3	Unit-III 3.1 Types of vegetable farming ek 3 3.2 Cultivation of summer vegetables with reference to their acreage							
Week 4	Unit-IV 4.1 Cultivation of summer vegetables with reference to their acreage 4.2 Production							

	Unit-V	
Week 5	5.1 Production	
	5.2 Botany	
	Unit-VI	
Week 6	6.1Cultivars	
	6.2 Cultivars	
<u> </u>	Unit-VII	
Week 7	7.1 Climate	
	7.2 Climate	
	Unit-VIII	
Week 8	8.1 Soil	
	8.2 Soil	
	Unit-IX	
Week 9	9.1 Cultural practices	
	9.2 Cultural practices	
	Unit-X	
Week 10	10.1 Maturity indices	
	10.2 Maturity indices	
	Unit-XI	
Week 11	11.1 Harvesting	
	11.2 Grading	
Week 12	Unit-XII	
	12.1 Packing	
	12.2 Quality assurance	
Week 13	Unit-XIII	
	13.1 Marketing	
	13.2 Marketing	
Week 14	Unit-XIV	
WEEK 14		

14.2 Production problems Unit-XV Week 15 15.1 Important weeds					
Week 15 15.1 Important weeds					
15.2 Insect-pests,					
Unit-XVI					
16.1 Diseases and their control. Week 16					
16.2 Diseases and their control.					
PRACTICAL					
Week 1 Use of laboratory equipment					
Week 2 Practice in raising of summer vegetables including mushrooms					
Week 3 Eradication of weeds and control measures of insects and diseases					
Week 4 Harvesting. Harvesting					
Week 5 Grading and packing of vegetables					
Week 6 Economics of summer vegetable production					
Week 7 Visits to vegetable farms and markets.					
Week 8 Laboratory performance overview					
Textbooks and Reading Material					

• Bose, T.K., M.G. Som and J. Kabir. 1993. Vegetable Crops. Naya Prokash, Calcutta-Six, India.

• Biswas, S., M. Datta and S.V. Ngachan. 2011. Mushrooms: A Manual for Cultivation. PHI learning private Ltd., New Delhi, India.Libner, N.S. 2006. Vegetable Production. Vedams Books Pvt. Ltd. New Delhi, India.

• Das, P.C. 2003. Vegetable Crops of India. Kalyani Publishers, New Delhi.

• Decoteau, D.R. 2002. Vegetable Crops. Prentice-Hall of India, New Delhi, India.

• Dhaliwal, M.S. 2008. Handbook of Vegetable Crops. Kalyani Publishers, Ludhiana, New Delhi, India.

• Maynard, D.N. and G.J. Hochmuth. 2007. Knott's Handbook of Vegetable Growers (5th Ed.). John Willey and Sons Inc., New York.

• Rana, M.K. 2008. Scientific Cultivation of Vegetables. 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. Design and plan a summer vegetable garden, demonstrating understanding of vegetable selection, garden layout, and management practices.

2. Summer Vegetable Variety Selection and Management

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.				

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