

**Department of Food Sciences**  
**University of the Punjab, Lahore**  
**Course Outline**



<b>Programme</b>	<b>B.Sc. (Hons.) Food Science &amp; Technology</b>	<b>Course Code</b>	<b>Fst-103</b>	<b>Credit Hours</b>	3(3-0)
<b>Course Title</b>	Introduction to agriculture				
<b>Course Introduction</b>					
To provide the basic knowledge and background about Agriculture					
<b>Learning Outcomes</b>					
After completion of this course, students shall be able to					
<ol style="list-style-type: none"> <li>1. Understand the basic knowledge of agriculture and its allied sciences.</li> <li>2. Basic concepts of potential of Pakistan regarding crop production.</li> <li>3. Emerging trends in crop management, livestock management, and fisheries.</li> </ol>					
<b>Course Content</b>				<b>Assignments/Readings</b>	
<b>Week 1</b>	<b>Unit-I</b>				
	1.1 Concept of Agriculture				
	1.2 Concept of Agriculture				
	1.3 Concept of Agriculture				
<b>Week 2</b>	<b>Unit-II</b>				
	2.1 Historical Development of Agriculture				
	2.2 Historical Development of Agriculture				
	2.3 Historical Development of Agriculture				
<b>Week 3</b>	<b>Unit-III</b>				
	3.1 Importance of Agriculture in Economic Development				
	3.2 Importance of Agriculture in Economic Development				
	3.3 Importance of Agriculture in Economic Development				
<b>Week 4</b>	<b>Unit-IV</b>				
	4.1 Branches of Agriculture (Agronomy, Horticulture, etc..)				

	4.2. Branches of Agriculture (Agronomy, Horticulture, etc.) 4.3 Branches of Agriculture (Agronomy, Horticulture, etc.)	
<b>Week 5</b>	<b>Unit-V</b> 5.1 Allied Sciences in Agriculture (Soil Science, Agricultural Engineering, etc.)	
	5.2 Allied Sciences in Agriculture (Soil Science, Agricultural Engineering, etc.)	
	5.3 Allied Sciences in Agriculture (Soil Science, Agricultural Engineering, etc.)	
<b>Week 6</b>	<b>Unit-VI</b> 6.1 Salient Features of Pakistan's Agriculture	
	6.2 Salient Features of Pakistan's Agriculture	
	6.3 Salient Features of Pakistan's Agriculture	
<b>Week 7</b>	<b>Unit-VII</b> 7.1 Challenges and Problems in Pakistan's Agriculture	
	7.2 Challenges and Problems in Pakistan's Agriculture	
	7.3 Challenges and Problems in Pakistan's Agriculture	
<b>Week 8</b>	<b>Unit-VIII</b> 8.1 Climate of Pakistan: Overview	
	8.2 Climate of Pakistan: Overview	
	8.3 Climate of Pakistan: Overview	
<b>Week 9</b>	<b>Unit-IX</b> 9.1 Weather Patterns and Their Impact on Agriculture	
	9.2 Weather Patterns and Their Impact on Agriculture	
	9.3 Weather Patterns and Their Impact on Agriculture	
<b>Week 10</b>	<b>Unit-X</b> 10.1 Seasonal Variations and Crop Production	
	10.2 Seasonal Variations and Crop Production	
	10.3 Seasonal Variations and Crop Production	
<b>Week 11</b>	<b>Unit-XI</b> 11.1 Land Resources in Pakistan	
	11.2 Land Resources in Pakistan	
	11.3. Land Resources in Pakistan	

<b>Week 12</b>	<b>Unit-XII</b> 12.1, Sustainable Land Utilization Practices	
	12.2 - Sustainable Land Utilization Practices 12.3 Sustainable Land Utilization Practices	
<b>Week 13</b>	<b>Unit-XIII</b> 13.1 Nutrient Management in Crop Production	
	13.2 Nutrient Management in Crop Production 13.3 Nutrient Management in Crop Production	
<b>Week 14</b>	<b>Unit-XIV</b> 14.1 Water Resources in Pakistan: Surface and Ground Water	
	14.2 Water Resources in Pakistan: Surface and Ground Water	
	14.3 Water Resources in Pakistan: Surface and Ground Water	
<b>Week 15</b>	15.1 Pakistan's Canal Irrigation System	
	15.2 Pakistan's Canal Irrigation System	
	15.3 Pakistan's Canal Irrigation System	
<b>Week 16</b>	16.1 Agro-ecological Zones of Pakistan and Their Characteristics	
	16.2 Agro-ecological Zones of Pakistan and Their Characteristics	
	16.3 Agro-ecological Zones of Pakistan and Their Characteristics	
<b>Textbooks and Reading Material</b>		
<ol style="list-style-type: none"> <li>1. Abbas, M. A. (2006). General Agriculture. Emporium Urdu Bazar, Lahore.</li> <li>2. Balasubramaniyan. (2004). Principles and Practices of Agronomy. Agrobios, Jodhpur, India.</li> <li>3. Khalil, I.A. &amp; Jan, A. (2002). Cropping Technology. National Book Foundation, Islamabad.</li> <li>4. Khan, S.R.A. (2001). Crop Management in Pakistan with Focus on Soil and Water. Directorate of Agricultural Information, Punjab, Lahore.</li> <li>5. Nazir, M.S., Bashir, E. &amp; Bantel, R. (1994). Crop Production. National Book Foundation, Islamabad.</li> <li>6. Qureshi, M.A., Zia, M.A. &amp; Qureshi, M.S. (2006). Pakistan Agriculture Management and Development. A-One Publisher, Urdu Bazar, Lahore.</li> </ol>		
<b>Teaching Learning Strategies</b>		
<ol style="list-style-type: none"> <li>1. Lectures</li> <li>2. Discussions</li> </ol>		

3. Presentations
4. Quiz
5. Assignments

**Assignments: 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.