

Name of Faculty		Agriculture					L:1 T:1
Name of Course		B.Sc. (Hons.) Agriculture					Credits: 2
Subject/Paper		Sustainable Approaches in Agriculture		Semester	II	Paper Code	Marks: 50
						ASC-2	
Course Objectives:		<p>At the completion of this course each student will be able to meet the following student learning objectives:</p> <ol style="list-style-type: none"> To learn about the present status of sustainability in agriculture in India To learn sustainable approaches in agriculture To understand the role of climate in studying the organic farming system Impact of organic farming system on food quality <p>This course imparts transferable skills about organic farming, its practice and its effect on food quality required for an agricultural expert as well as an interested general individual as a hobby practice.</p>					
Course Coordinator Name:		Dr. Vinita Rajput			Class Time:	Day	Wednesday
Contact:		09468111162			2:00-4:00 pm.		2:00-4:00 PM
Unit	Sub Units	Time (hrs)	Topic	Teaching Methodology		Assessment Method	Teaching Faculty
Unit-I	1.1	2	Agriculture and its definition, scope and development of agriculture	Student Interactive Session		Single Response Answer	Dr. Mohinder Singh
	1.2	2	Agronomy definition, scope	Student Seminar		Multiple Response Answer Assertion – Reasoning On Spot Group Discussion Long Answer Short Answer Problem Based	

	1.3	2	Principles of agronomy		Question Interpretation Question	Dr. Mohinder Singh
	1.4	2	Role of agriculturist in sustainable agriculture and organic farming			Dr. Mohinder Singh
Unit-II	2.1	2	Definition and scope of organic agriculture	Student Interactive Session	Single Response Answer Multiple Response Answer	Dr. Mohinder Singh Dr. Mohinder Singh
	2.2	2	Principles and practices of organic agriculture, current status in India	Students Seminar	Assertion – Reasoning On Spot Group Discussion Long Answer Short Answer	Dr. Mohinder Singh
	2.3	3	Components of organic agriculture: crop and soil management		Problem Based Question Interpretation Question	Dr. Mohinder Singh
	2.4	4	On farm waste recycling, energy use, food quality, sustainable agriculture, future challenges: natural			

			resource management.			
Unit-III	3.1	4	Climate: role of weather elements: solar radiation, temperature, wind, humidity, rainfall and precipitation	Student Interactive Session	Single Response Answer	Dr. Mohinder Singh
	3.2	3	Season of occurrence, intensity, amount and distribution, effective rainfall	Student Seminar	Multiple Response Answer	Dr. Mohinder Singh
	3.3	3	Weather forecasting; types; green house effect		Assertion – Reasoning	Dr. Mohinder Singh
	3.4	3	Climate change: impact, adaptation, etc.		On Spot Group Discussion Long Answer Short Answer Problem Based Question Interpretation Question	Dr. Mohinder Singh

Assessment: 50 Marks (10 marks Internal – 40 End Term)

Recommended Books:

1. ICAR, New Delhi (2013). Hand Book of Agriculture, 5th reprint of sixth edition.
2. Randhawa, M.S. (1982). A History of Agriculture in India. Vol. II, ICAR, New Delhi
3. Randhawa, M.S. (1983). A History of Agriculture in India. Vol. III, ICAR, New Delhi
4. Randhawa, M.S. (1986). A History of Agriculture in India. Vol. IV, ICAR, New Delhi.
5. Reddy, S.R. (2000). Principles of Crop Production (1st edition).
6. Reddy, T. Yellamanda and Reddy, G. H. Sankara (2005). Principles of Agronomy (3rd revised edition)
7. Singh, C. M., Sud, V.K., Suri, S.M. and Singh, J. (2000). Women in Agriculture - Training Manual.
8. Singh, J. and Tesfamichael, A. (2007). Principles of Crop Production -Teaching Manual.