

Name of Faculty		Agriculture					L:1 T:1
Name of Course		B.Sc. (Hons.) Agriculture					Credits: 2
Subject/Paper		Hi-tech Horticulture		Semester	II	Paper Code	Marks: 50
						ASC-1	
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"> 1. To learn about the present status of horticulture in India and abroad 2. To learn modern and innovative technologies used in horticulture field 3. Preservation and value addition in fruits and vegetables 4. To develop gardening as a hobby 5. To develop technical skills related to horticulture <p>This course is imparting transferable and life skills for a agricultural professional as well as general individual about gardening, farming and horticulture required in everyday life.</p>					
Course Cordinator							
Name:		Dr. Vinita Rajput			Class Time:	Day	
Contact:		09468111162			2:00-4:00 pm.	Wednesday	2:00-4:00 PM
Unit	Sub Units	Time (hrs)	Topic	Teaching Methodology		Assessment Method	Teaching Faculty
Unit-I	1.1	2	Global scenario of horticultural crops, horticultural therapy	Student Interactive Session		Single Response Answer	Dr. Vinita Rajput
	1.2	2	Horticulture tourism, horticulture development agency	Student Seminar		Multiple Response Answer Assertion – Reasoning On Spot Group Discussion Long Answer Short Answer	

	1.3	2	Mechanization and waste management in horticulture		Problem Based Question Interpretation Question	Dr. Vinita Rajput
	1.4	2	Production constraints in horticulture			Dr. Vinita Rajput
Unit-II	2.1	2	Gardening: kitchen garden, terrace garden; multitier cropping	Student Interactive Session	Single Response Answer Multiple Response Answer	Dr. Vinita Rajput Dr. Vinita Rajput
	2.2	2	Bulb or seed forcing, use of growth regulators	Students Seminar	Assertion – Reasoning On Spot Group Discussion	Dr. Vinita Rajput
	2.3	2	Modern nursery techniques and propagating structures		Long Answer Short Answer Problem Based Question Interpretation Question	Dr. Vinita Rajput
	2.4	2	Hydroponics: Principles and practices			

Unit-III	3.1	4	Manipulation of sex in plants, Artificial Fruit ripening	Student Interactive Session	Single Response Answer Multiple Response Answer	Dr. Vinita Rajput
	3.2	4	High density planting, use of LED's in manipulation of growth in plants , Special horticultural practices: pinching, bending, thinning, mulching, breaking of dormancy <i>etc.</i>	Student Seminar	Assertion – Reasoning On Spot Group Discussion Long Answer Short Answer Problem Based Question Interpretation Question	Dr. Vinita Rajput Dr. Vinita Rajput
	3.3	4	Importance and scope of fruit preservation, Value addition			Dr. Vinita Rajput
	3.4	4	Prolonging shelf-life of fruits, vegetables and flowers, Storage, zero energy cool chamber			

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

Recommended Books:

1. Mark Holcomb. 2003. The pot-in-pot production system. University of Tennessee.
2. Jerry Wright and Gary Sands. 2001. Planning an agricultural subsurface drainage system. 2001. University of Minnesota Cooperative Service.
3. Bhattacharya, R.K. and Baruah, B.P. 1998. In A Text Book on Pomology, Vol. III (Ed. T.K. Chattopadhyay), kalyani Pub., Ludhiana, India.
4. Bonavia. F. 1980. The Cultivated Oranges and Lemons and the like of India and Ceylon. W.I.I. Allch and Co., London.