

SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)



SYLLABUS

**For
Certificate of Horticulture**

Course Code: CHRT-101

Department of Agriculture Science

Duration of Course : One Year
Examination Mode : YEARLY
Examination System : Non Grading

Swami Vivekanand University, Sironja Sagar (M.P.)
2016-2017



Swami Vivekanand University, Sagar(M.P.)



Faculty : Agriculture Science

Department : Agriculture Science

Scheme of Course : Horticulture

Course Code : CHRT-101

Year – Yearly

Course Code	Title of the Paper	Periods Per week				Distribution of Marks								Grand Total (i= d+h)
		L	T	P	C	Theory		MS T (c)	Total (d= a+c)	Practical		T W (g)	Total (h= e+g)	
						Max (a)	Min (b)			Max (e)	Min (f)			
CHRT-101	Horticulture	-	-	-	-	100	33	-	100	50	17	-	50	150
Total		-	-	-	-	100	-	-	100	50	-	-	50	150



Horticulture

Course code	Title of the Paper	Periods Per week				Distribution of Marks							Grand Total (i= d+h)	
		L	T	P	C	Theory		MST (c)	Total (d = a+c)	Practical		TW (g)		Total (h= e+g)
						Max (a)	Min (b)			Max (e)	Min (f)			
CHRT-101	Horticulture					100	33		100	50	17		50	150

UNIT I –:

Marks :20

Basic Horticulture- Introduction, classification of horticulture, importance of vegetables, classification of vegetable crops, types of vegetable gardens, classification of flowers, classification of spices, classification of plantation crops. **Soil** -: alluvial soil, tarai soil, arid soil, black soil, red soil, laterite soil, marshy soil. **Climate** -: Temperate climate, tropical climate, sub-tropical climate. Propagation Techniques, water management.

UNIT II -:

Marks: 20

Orchard -: Selection of site, climate, profile of land, irrigation, availability of labour, transport facility. **Orchard planning** -: Layout, methods, management of orchard- orchard soil management, clean cultivation, sod culture, principle, advantage, disadvantage, irrigation method, fertilizers.

UNIT III -:

Marks : 20

Cultivation of following vegetable crops with special reference to- Importance, Climate, Soil, Varieties, Propagation, Planting, Irrigation, Manuring, Cultivation, Pruning, Inter-cropping, Pest and Disease and their control, Harvesting, Marketing and Storage – Tomato, Brinjal, Potato, Okra, Carrot, Radish, Bottle gourd. Cultivation of following fruit crops with special reference to- Importance, Climate, Soil, Varieties, Propagation, Planting, Irrigation, Manuring, Cultivation, Pruning, Inter-cropping, Pest and Disease and their control, Harvesting, Marketing and Storage – Mango, Papaya, Banana, Guava, Grapes, Litchi, Sapota.

UNIT IV -:

Marks : 20

Cultivation of following spices & tuber crops with special reference to- Importance, Climate, Soil, Varieties, Propagation, Planting, Irrigation, Manuring, Cultivation, Pruning, Inter-cropping, Pest and Disease and their control, Harvesting, Marketing and Storage – Garlic, Fenugreek, Ginger, Turmeric, Coriander, Fennel, Cumin, Ajwain.

UNIT V -:

Marks : 20

Cultivation of following flower crops with special reference to- Importance, Climate, Soil, Varieties, Propagation, Planting, Irrigation, Manuring, Cultivation, Pruning, Inter-cropping, Pest and Disease and their control, Harvesting, Marketing and Storage – Gerbera, Roses, Chrysanthemum, Dahlia, Gladiolus, Tuberose, Marigold, Canna, Jasminums , Bougainvillea.

Practical -:

1. Study of Horticulture tools and implements and their uses.
2. Cultivation of Gerbera.
3. Layout of Orchard.
4. Seed production of Papaya.

Reference -:

1. Modern Oleri and Flori Culture - G. S. Saini & VijayKumar Umrao
2. Bharat Main Phalotpadan - K.N.Dubey (in Hindi)
3. UdyanVigyan - Dr. S.S.Srivastava (in Hindi)
4. Phal Utpadan: Siddhant Evam Praudyogiki - Dr. Prabhakar Singh & Dr.Shailendra Agarwal
5. Hand Book of Horticulture - Dr.K.L.Chadda, ICAR, New Delhi
6. Fundamentals of Horticulture - Dr. K. N. Dubey and Vivek Kumar(in Hindi)