

SRI VENKATESWARA UNIVERSITY:'TIRUPATI

B.VOC. HONOURS PROGRAMME IN HORTICULTURE

COURSE STRUCTURE

SEMESTER – V – w.e.f. 2025-26

Skills Gen. Edu	Courses	Title of Paper/Course and code	Credits per course	Hours/ week	Total "ours/ Course	Marks		
						Internal	External	Total
	Minor -I	Ornamental Horticulture	3	3	45	25	75	100
	Practical	Ornamental Horticulture	1	2	30		50	50
	Minor -II	Commercial Floriculture	3	3	45	25	75	100
	Practical	Commercial Floriculture	1	2	30		50	50

SRI VENKATESWARA UNIVERSITY: TIRUPATI

**B. VOC. HONOURS PROGRAMME IN DAIRY AND ANIMAL HUSBANDRY
MINOR: HORTICULTURE**

THIRD YEAR V- SEMESTER

under CBCS W.E.F.2023-24 AY Onwards

MINOR PAPER-I: ORNAMENTAL HORTICULTURE

Credits -3

I. Learning Objectives: By the end of this course the learner has:

- 1.To obtain knowledge in various types of Gardens and their role in recreating human psyche.
- 2.To acquire knowledge in identification and propagation of Ornamental plants
- 3.To understand the designing of Gardens in public areas.

II. Learning Outcomes: On completion of this course students will be able to:

- 1.Acquire a critical knowledge in Ornamental Horticulture and its significance.
- 2.Identify and explain Living and non-living components in an Ornamental Garden.
- 3.Acquire skills on propagation and planting of Ornamental plants.
- 4.Perform managerial skills related to Ornamental Gardening.
- 5.Demonstrate skills of Designing and Developing Ornamental Gardens in Public Areas.

III. Syllabus of Theory:

UNIT -I: Introduction to Ornamental Horticulture

9 Hrs.

- 1.Definition, History and Scope of Gardening
- 2.Types of Gardens- Formal and Informal Gardens with examples
- 3.Basic principles of Gardening
- 4.Ornamental Garden features

UNIT -II: Plants in Ornamental Gardening

9 Hrs.

Importance, Design values, Propagation, Planting of following Ornamental plants:
(a) Trees (b) shrubs (c) Herbaceous perennials (d) Flowering Annuals

UNIT -III: Special Plants in Ornamental Gardening

9 Hrs.

Importance, Design values, Propagation, Planting of following Ornamental plants:
(a) Climbers (b) Creepers (c) Palms (d) Ferns (e) Cacti and Succulents

UNIT -IV: Landscape management and Lawn management 9 Hrs.

- 1.Landscape design for educational institutes
- 2.Landscape design for Industrial areas.
- 3.Lawn – Selection of Grasses, Establishment and Maintenance of lawn
- 4.Interior scaping.

UNIT -V: Special type of Gardens and Bonsai 9 Hrs.

- 1.Terrarium, Vertical Garden, Roof Garden,
- 2.Rock Garden, Water Garden
- 3.Bonsai – Types, Culture and maintenance of Bonsai

IV. Text Books/ Reference Books:

- 1.Randhawa, G S. Ornamental Horticulture in India.
- 2.Bose, T. K and Mukherjee, D. 2004. Gardening in India. Oxford & IBH Publishers.
- 3.Chandra, K. L and Choudhary, B. 1986. Ornamental Horticulture in India. Publication and Information division ICAR, New Delhi.
- 4.Randhawa, G. S. Amitabha Mukhopadhyay. 2004. Floriculture in India. Allied Publishers Pvt. Ltd., New Delhi.
- 5.Aora, J.S. 2006. Introductory Ornamental Horticulture. Kalyani Publishres, Ludhiana.
- 6.Iyengar, G. S. 1990. Complete Gardening In India. IBH, Bangalore
- 7.Walker, D. T. 1983. Planting Designs. PDA, Publishers Corporation, USA
8. Eckbo, G. 1956. The Art of Home Landscaping
- 9.Bose, T. K., Malti, R.G., Dhua, R. S and Das, P. 2004. Floriculture and Landscaping. Nayaprakash, Calcutta
- 10.Randhwa, M. S. 1983. Flowering Trees

PRACTICAL SYLLABUS
MINOR PEPAR-I: ORNAMENTAL HORTICULTURE
Credits -1

I. Laboratory/field exercises:

1. Identification and description of various plants grown in ornamental gardens.
2. Tools, Implements and Containers used in ornamental gardens.
3. Planning, designing and establishment of gardens viz. Lawn, Hedge, Edge, Rockery etc.
4. Demonstration of Types and styles of gardens using photos or videos.
5. Planning, designing and establishment of water garden, Carpet bedding, Shade Garden and Roof Garden.
6. Preparation of land for Lawn and Planting.
7. Demonstration of Bonsai making.
8. Study and creation of Terrarium and Vertical Garden.

IV. Suggested activities:

A. Measurable:

a. Student seminars:

1. History and Scope of Gardening
2. Interior scaping
3. Cultural operations in Gardening.
4. Tools and implements used in gardening
5. Cultural practices in Bonsai
6. Propagation of Ornamental plants
7. Suitable Indoor plants for Balcony
8. Designing of Garden

b. student Study Projects:

9. Identification and preparation of a list of Ornamental plants
10. Demonstrate various propagation methods used in propagation of ornamental plants.
11. Identification of various garden components in nearby gardens

c. assignments: Written assignment at home / during '0' hour at college; preparation of charts with drawings, making models etc., on topics included in syllabus.

B. General:

1. Group Discussion (GD)/ Quiz/ Just A Minute (JAM) on different modules in syllabus of the course.
2. Visit to Horticulture University/ Research Station.
3. Visit to Local gardens

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MINOR PEPAR-II: COMMERCIAL FLORICULTURE
Credits -3

I. Learning Objectives: By the end of this course the learner has:

- 1.To understand the importance of cut and loose flowers in day-to-day life
- 2.To study the cultivation practices of different flower crops.
- 3.To understand the post-harvest techniques of flowering crops to increase self-life.

II. Learning Outcomes: On successful completion of this course, the students will be able to:

- 1.Understand the significance of flowers in human life.
- 2.Acquire skills related to production techniques in floriculture.
- 3.Demonstrate skills of protected cultivation in floriculture.
- 4.Perform skills in relation to post-harvest operations in floriculture.

III. Syllabus of Theory:

UNIT – I: Basic concepts of floriculture

9 Hrs.

- 1.Commercial Floriculture- Definition, Aesthetic, Cultural and Industrial importance of flowers.
- 2.Area, production and exports of flowers in India.
- 3.Scope of Commercial Floriculture in India.
- 4.Constraints in flower production in India and remedies to overcome them

UNIT – II: Production Technology

9 Hrs.

- 1.Production techniques of following flowering plants for Domestic and Export market:
(a) Rose (b) Chrysanthemum (c) Gerbera

UNIT – III: Production Technology

9 Hrs.

- 1.Production techniques of following flowering plants for Domestic and Export market:
(a) Marigold (b) Crossandra (c) Jasmine

UNIT – IV: Production Technology

9 Hrs.

1. Production techniques of following flowering plants for Domestic and Export market:
(a) Orchid (b) Tuberose (c) Gladiolus

UNIT – V: Post-Harvest practices in Floriculture

9 Hrs.

1. Post-Harvest technology of cut and loose flowers.
2. Dry flower technology in cut flowers
3. Flower arrangement – eastern and western flower arrangement.
4. Bouquets – materials and methods.

IV. Text Books/ Reference Books:

1. Randhawa, G. S and Mukhopadhyaya, A. 2004. Floriculture in India.
2. Bose, T. K and Yadav, L. P. 1989. Commercial Flowers. Nayaprakash, Calcutta
3. Prof. Bhattacharjee, S. K. Advanced Commercial Floriculture. Aavishkar Publishers Distributor, Jaipur – 320003
4. Aora, J. S. 2006. Introductory Ornamental Horticulture. Kalyani Publishres, Ludhiana – 141 008
5. Alex Laurie Kiplinger, D. C and Kennard Nelson, S. 1976. Commercial Flower Forcing. McGraw Hill Company, New York
6. Lersen, R. A. 1981. Introduction to Floriculture. Academic press, New York.
7. Pal, B.P. 1991. The Rose in India. Publications and Information Division ICAR, New Delhi.

PRACTICAL SYLLABUS
MINOR PEPAR-II: COMMERCIAL FLORICULTURE
Credits -1

I. Laboratory/field exercises:

1. Identification of important flower crops
2. Preparation of nursery bed for flower seeds sowing.
3. Training and Pruning of Roses in open and polyhouses.
4. Propagation of rose by cutting and budding.
5. Propagation methods in chrysanthemum.
6. Layering methods for Jasmine propagation.
7. Visit to green house to study protected cultivation of Gerbera.
8. Field visit to commercial flower growing area.

V. Suggested activities:

A. Measurable:

a. Student seminars:

1. Importance and Scope of cultivation of flowers
2. Production technology of flower crops
3. Post harvest techniques in floriculture.
 - o Dehydration of cut flowers
 - o Dry flower technology
 - o Protected cultivation in flower crops
4. Training and pruning in various flower crops
5. Methods of flower arrangement
6. Classification of flowers

b. student Study Projects:

7. Identification and preparation of a list of flowering plants
8. Demonstrate various propagation methods used in propagation of flowering crops.
9. Demonstrate various drying techniques of flowers to increase vase life.

c. assignments: Written assignment at home / during '0' hour at college; preparation of charts with drawings, making models etc., on topics included in syllabus.

B. General:

1. Group Discussion (GD)/ Quiz/ Just A Minute (JAM) on different modules in syllabus of the course.
2. Visit to Horticulture University/ Research Station.
3. Visit to Local floriculture fields.

