



University of Kerala

Discipline	BOTANY				
Course Code	UK1MDCBOT102				
Course Title	FLORICULTURE				
Type of Course	MDC				
Semester	I				
Academic Level	100 – 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours/Week
	03	03 Hours	-	-	03 Hours
Pre-requisites	No Pre-requisites				
Course Summary	Through this MDC, students will acquire knowledge about floriculture as it is a growing business venture. The course may motivate the students to get into gardening and landscaping startups.				

Detailed Syllabus:

Module	Unit	Content	Hrs
I	Introduction to Floriculture		06
	1	Present status of the cut flower industry in India and abroad	
	2	Constraints and prospects of commercial floriculture in India with special reference to Kerala. Greenhouse and shade house for cultivation of floricultural crops.	
	3	Flower Business– Grower, Wholesale, Retail, and specialty shops, Studio operations. Careers in the floriculture business as - shop owners, designers, Service personnel, packaging, and logistic personnel.	
II	Major Floricultural crops		10
	4	Marketing of loose flowers, cut flowers, and perfumery roses, protected cultivation for export.	
	5	Importance, uses distribution, classification, varieties, soil and climate, propagation, planting; special cultural techniques – nutrition, plant protection, harvesting, and marketing with special reference to Chrysanthemum, Rose, Orchids, and Anthurium.	
III	Minor Floricultural crops		10
	6	Bulbous plants – classification, uses, commercial value, propagation, soil, and climate – planting – Care and management – harvesting, storage of planting materials - Gladiolus, Tuberose, Alpinia, Heliconia, Dahlia, Amaryllis.	
	7	Minor commercial flowers – Marigold, Crossandra, Gomphrena, Aster, Celosia. – Uses, classification, propagation, soil and climate, planting, care and management, harvesting, marketing.	
IV	Basics of Flower Arrangement		10

	8	Principles – Balance, Focal Point, Rhythm, Harmony. Design elements – Line, Form, texture, color.	
	9	Selection of cut flowers and greens – Line flowers, Mass flowers, filler flowers, form flowers. Conditioning and storing of flowers and greens – reasons for deterioration, use of antitranspirants.	
	10	Mechanics and supplies in floral design – containers, floral foam, adhesive materials, cutting tools, picks, wires and wiring, floral taping, ribbons and bows.	
V	Specialty Flower Arrangements		09
	11	Flower Arrangement- Western and Eastern	
	12	Basic arrangements - Bud vases – flowers, foliages, and accessories for bud vases, Design of bud vases. Circular arrangements, Triangular arrangements, Line arrangements	
	13	Constructing Wreaths, Holiday arrangements, Wedding flowers – Corsages. Ceremonial decorations, Dry flower preparation Arranging permanent flowers – Silk flowers, paper flowers, Dried and preserved flowers.	

Suggested Readings

1. Griner C .2011. Floriculture – Designing and Merchandizing. Cengage, Australia.
2. Arora, J.S. 1998. Introductory ornamental Horticulture.
3. Swami GSK and Auxilia J. Fundamentals of Horticulture. E-book. Agrimoon.com.
4. Singh AK .2020. Textbook of Floriculture and Landscaping. New India Publishing Agency.
5. Bhattacharjee,S.K.(ed). 2006. Advances in Ornamental Horticulture Vol. I to VI. Pointer Publishers, Jaipur.
6. Sidhu, S.S. 2016.Ornamental Horticulture. New India Publishing Agency,New Delhi.

References

1. Chadha, K.L. and Choudhury, B. 1992. Ornamental Horticulture in India., ICAR, New Delhi.
2. Jindal, S.L. 1987. Flowering shrubs in India. Publications Division, Govt. of India, New Delhi.
3. Pal, B.P. 1972. The rose in India. Indian Council of Agricultural Research, New Delhi.
4. Randhawa, M.S. 1983. Flowering Trees. National Book Trust, India, New Delhi.
5. Randhawa.G.S. and Mukhopadhyay. A. 1986. Floriculture in India. Allied Publishers, New Delhi.
6. Sabina, G.T. 2009. Ornamental plants. New India Publishing Agency.
7. Sheela, V.L. 2008. Flowers for trade. New India Publishing Agency, New Delhi.

Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Students will get an overview of the scenario of the	U	4

	floriculture industry – its scope and limitations		
4CO-2	Awareness of various floriculture crops in India, their cultivation practices, and marketing	U	4
CO-3	Students will understand the basics of flower arrangements and the opportunities in the area of flower arrangements in large functions like weddings.	U	8
CO-4	The course may generate interest in the students to become entrepreneurs in the business of floriculture	Ap	4, 12

R-Remember, U-Understand, Ap-Apply, An-Analyse, E-Evaluate, C-Create

Name of the Course: Floriculture

Credits: 3:0:0 (Lecture:Tutorial:Practical)

CO No.	CO	PO/PSO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
1	1	4	U	F,C	L,T	
2	2	4	U	F,C	L,T	
3	3	8	U	F,C	L,T	
4	4	4, 12	Ap	F,C		P

F-Factual, C- Conceptual, P-Procedural, M-Metacognitive

Assessment Rubrics:

- Quiz / Assignment/ Quiz/ Discussion / Seminar
- Midterm Exam
- Programming Assignments
- Final Exam

Mapping of COs to Assessment Rubrics :

	Internal Exam	Assignment	Project Evaluation	End Semester Examinations
CO 1	✓			✓
CO 2	✓			✓
CO 3	✓	✓		✓
CO 4			✓	✓