

DEVA MATHA COLLEGE KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



SYLLABUS

OF

ADD-ON COURSE

IN

Horticulture Applications

Academic Year: 2022-23



DEVA MATHA COLLEGE KURAVILANGAD

DEPARTMENT OF SELF FINANCE BOTANY PG

Add on Courses offered for Students : 2022-2023

- 1. Botany in Everyday Life
DMCK/ SFBOT/AD 31/2022**
- 2. Horticulture Applications
DMCK/ SFBOT/AD 32/2022**



Department Coordinator: Ms. Sreekutty Sreedharan

Title	: Horticulture Applications
Instructional Hours	: 30 hrs
Duration	: 3 Months
Mode of Instruction	: Offline
Intake Capacity	: One Batch [25 Students]
Eligibility	: + 2

DEVA MATHA COLLEGE KURAVILANGAD

ADD-ON COURSE FOR THE AY 2022-23

Course Objectives

1. Students will understand the basic principles, process and functions of plant growth and reproduction.
2. Students will understand how to propagate, sustainably grow, manage and harvest a variety of plants in a diverse set of environmental marketing conditions.
3. Students will have supervised, hands on work experience in the area of horticulture.
4. Students will understand how to propagate plants by seeds, cuttings, and grafting, budding, layering and by micro propagation.

[Theory – 17 hrs]

Module 1 – Introduction to Horticulture [1 hr]

- a. Scope and importance of horticulture

Module 2– Modern Trends in Gardening [2 hrs]

- a. Indoor gardening -Introduction and Preparation of Indoor garden
- b. Vertical gardening - Introduction and Preparation of Vertical garden
- c. Kokedama - Introduction and Preparation of Kokedama

Module 3 - Flower arrangements [5 hrs]

- a. Fresh flower arrangements - Essentials in flower arrangement, Principles of flower arrangement, Equipments for flower arrangement, Floral Arrangement Styles
- b. Dry flower arrangements - Materials for dried arrangement, Advantages of dried arrangement over fresh flowers

Module 4 - Modern Trends in Horticulture [3 hrs]

- a. Terrarium - Types of Terrarium, Preparation of a Terrarium and its steps, Maintenance of the terrarium, Plants suitable for terrarium
- b. Bonsai – Making, Caring and styles of bonsai

Module 5 - Propagation methods [6 hrs]

- a. Layering - Ground layering, Compound layering, Tip layering, Air layering, Trench Layering and Mound layering
- b. Budding - T-Budding, Inverted T-Budding and Patch Budding.
- c. Grafting - Whip and Tongue grafting, Wedge grafting, Crown grafting, Side grafting and Approach grafting

[Practical - 13 hrs]

- a. Preparation of fresh flower arrangements
 - i. All-round arrangement
 - ii. Facing arrangement
 - iii. Mass style
 - iv. Line Arrangements
 - v. Triangular Arrangement
 - vi. Crescent Arrangement
 - vii. 'S' shaped flower arrangement
- b. Preparation of dry flower arrangements
- c. Preparation of a Terrarium
- d. Propagation methods – Layering, Budding and Grafting
- e. Preparation of Vertical garden
- f. Preparation of Kokedama

References

1. V. Kumaresan, Horticulture & Plant Breeding [2010] Saras publications, Newdelhi
2. Adam C.R. (2004). Principles of Horticulture. Elsevier Butterworth-Heinemann.
3. Peter K. V. (2015). Basics of Horticulture. New India Publishing Agency, New Delhi.
4. Gupta S.N. (2016). Instant Horticulture. Jain Brothers, New Delhi.
5. Tiwari A.K. and R. Kumar (2012). Fundamentals of Ornamentals, Horticulture and Landscape Gardening. New India Publishing Agency, New Delhi

Assessment Procedure


- Written examination [both descriptive and objective] along with practicals

Grading

- For grading 5 Point scale analysis will use

Scale	Scale Averages	Final Grade
4.50 to 5.00	90 to 100	A
4.00 to 4.49	80 to 89	B
3.50 to 3.99	70 to 79	C
3.00 to 3.49	60 to 69	D
1.00 to 2.99	0 to 59	F




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