# POST GRADUATE DEPARTMENT OF BOTANY (S.F) DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



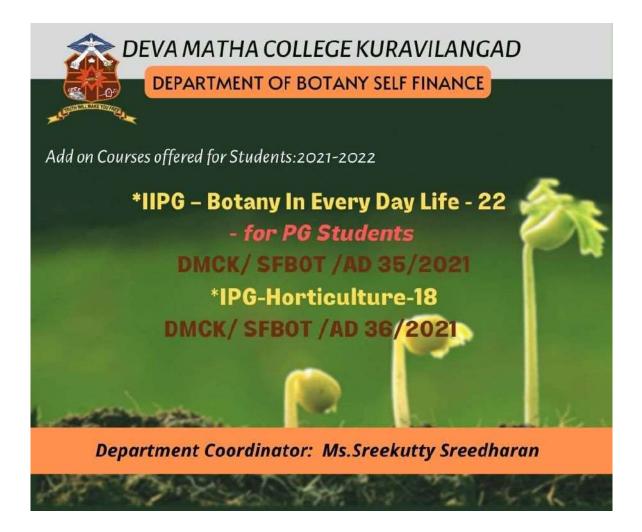
### Syllabus

### **ADD-ON COURSE**

In

## Horticulture [DMCK/SFBOT/AD 36/2021]

Academic Year: 2021-22



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

The specific objectives of the training workshop were to familiarize or refresh participants' knowledge about the basic concepts, principles, components and approaches to the flower arrangement and bouquet making, Highlight the importance of horticulture and benefits and provide guidelines to the participants about horticulture and flower arrangement. Certificates are distributed to the successful participants.

#### Objectives

- Demonstrate a working knowledge and appreciation of the diversity of
- plants, their culture and utilization.
- Apply horticultural principles to the successful growth and production of
- horticultural plants.
- Demonstrate the knowledge, skills and attributes to be successful
- contributing members of the horticulture profession.
- Recognize and apply ethical professional practices to horticultural
- applications.
- Synthesize and integrate information to solve horticultural problems.

#### Add on course : Horticulture [ I PG ]2021-2023 BATCHSyllabus

[Theory – 17 hrs]

#### Module 1 – Introduction to Horticulture [1 hr]

#### Module 2- Modern Trends in Gardening [ 2 hrs ]

- a. Indoor gardening Preparation of Indoor garden
- b. Vertical gardening Preparation of Vertical garden

#### 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
  - All-round arrangement i.
  - ii. Facing arrangement
  - Mass style iii.
  - iv. Line Arrangements
  - v. TriangularArrangement
  - Crescent Arrangement vi.
  - vii. 'S' shaped flower arrangement
- b. Preparation of dry flower arrangements
- c. Preparation of a Terrarium
- d. Propagation methods Layering, Budding and Grafting

#### **Course outcome**

□ CO1: The study of scope and importance of horticulture, division of horticulture, classification of horticultural plants, brief note on some families of horticultural importance

- □ CO2: Complete knowledge about Scope and importance of commercial floriculture
- □ CO3: awareness of basics of ornamental and landscape gardening
- □ CO3: aware with the mechanism of Pest and Disease Management of Horticultural Crops

#### Assessment criteria

Mark	Grade
8-10	А
6-7	В
4-5	С
2-3	D
0-1	Е



Principal Deva Matha College

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