



**THE MADURA COLLEGE (AUTONOMOUS)  
MADURAI – 625 011**

**Diploma in Gardening**

**Programme Co-ordinator**

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**Programme Description**

The diploma programme on gardening aims at guiding and inculcating the domain knowledge as well as professional skills to the takers, in a step-by-step manner, through the process of deciding the type of garden they wish to initiate and maintain, knowing the soil and its properties, suitable plants for that soil for a great gardening.

The programme throws light upon the basics of gardening and why gardening is important. It also gives the knowledge of the soil composition in the taker's yards and reframe it for better gardening by compost preparation out of vegetable and fruit wastes. The programme will also highlight upon ecotherapy aspects and efficient stress management through gardening.

**Programme Duration**

The duration is for one year, split into two semesters. The total 120 hours are split into two theory papers for 60 hours (each 30 hours) and two practicals for 60 hours (each 30 hours).

Semester	Department of Botany				Diploma Programme			
	Course Type	Course Code*	Course Title	Credits	Total hours	CIA	EXT	Total
I	Diploma	21DB1C1	Gardening Basics	2	30	50	50	100
	Diploma	21DB1P1	Practical	2	30	50	50	100
II	Diploma	21DB1C2	Garden Designing	2	30	50	50	100
	Diploma	21DB1P2	Practical	2	30	50	50	100

DEPARTMENT OF BOTANY				<i>Diploma Programme</i>				
Sem	Course Type	Course Code	Course Title	Credits	Total Contact Hours	CIA	Ext	Total
I	Diploma	21DB1C1	<b>Gardening Basics</b>	2	30	50	50	100

### Programme Objectives

The course objectives are to

1. Impart **domain knowledge** and **professional skills** on gardening techniques.
2. provide the basics to create a garden in an available space.
3. integrate and apply the programme information to grow plants, all the way to the production / harvest and
4. promote awareness of **ecotherapy** through gardening for **effective stress management**.

#### Unit I (6 Hr)

Introduction – history of gardening – scope – importance – benefits. Description – plant system. Gardening – stress management – Ecotherapy.

#### Unit II (6 Hr)

Soil structure – top soil and sub soil – soil profile – types of soil – soil pH, water and plant growth. Soil improvement – mulching – organic and inorganic; manures, fertilisers and lime – benefits and drawbacks.

#### Unit III (6 Hr)

Garden tools and equipment. Preparation of compost using vegetable and fruit wastes. Coco peat and its applications. Site– bag – pot preparation. Containers used for gardening purpose.

#### Unit IV (6 Hr)

Ideal conditions for planting. Drainage and its importance. Methods of seed sowing – traditional – drilling – dibbling – broadcasting and transplantation.

#### Unit V (6 Hr)

Plants for acidic and alkaline soils, shady areas, sunny and dry areas, scented flowers, climbers, focal points and colourful foliage. Plant propagation – cuttings.

## Lecture Schedule for theory

S. No	TOPICS	Staff Dr. SG	Hours	Mode
<b>Unit 1</b>	Introduction – history of gardening.		2	you tube
	Scope and importance of gardening.		1	videos
	Benefits of gardening.		1	Chalk and
	Description – plant system.		1	talk
	Gardening for stress management, Ecotherapy.		1	PPT
<b>Unit 2</b>	Soil structure – top soil and sub soil.		2	you tube videos chalk and talk PPT
	Soil profile – types of soil – soil pH, water and plant growth.		2	
	Soil improvement – mulching – organic and inorganic.		1	
	Manures, fertilisers and lime – benefits and drawbacks.		1	
<b>Unit 3</b>	Garden tools and equipment.		2	you tube videos chalk and talk
	Preparation of compost using vegetable and fruit wastes.		1	
	Coco peat and its applications.		1	
	Site – bag – pot preparation.		1	
	Containers for gardening purpose		1	
<b>Unit 4</b>	Ideal conditions for planting.		1	you tube videos Chalk and talk
	Drainage and its importance.		1	
	Methods of seed sowing – traditional		2	
	Drilling, dibbling, broadcasting		1	
	Transplantation		1	
<b>Unit 5</b>	Plants for acidic and alkaline soils		1	you tube videos Chalk and talk PPT
	Shady areas, sunny and dry areas		1	
	Scented flowers and climbers		1	
	Focal points and colourful foliage.		1	
	Plant propagation - cuttings		2	