

The Kelkar Education Trust's
V. G. Vaze College of Arts, Science and Commerce
(Autonomous) - Affiliated to University of Mumbai
(Re-Accredited By NAAC with Grade A)

Revised Syllabus for FYBSc
Based on NEP-2020 Guidelines

Program: B.Sc.
Course: BOTANY
Semester IV

To Be Implemented From
Academic Year 2024-25
S.Y.B.Sc (Botany)
Semester: IV

Open Elective- II
Course Title: Gardening and Landscape Designing

Course code:

(Credits-04)

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks					End Semester Examination	Total
L	T	P	C	CIA-1	CIA-2	CIA-3	CIA-4	Lab	Written	
3	-	-	2	15	15	10		-	60	100
Max. Time, End Semester Exam (Theory) -2Hrs.										

Course Objectives:

To understand the concept of different types of gardens and their importance.

To apply the basic principles and components of gardening

To design various types of outdoor gardens.

To understand plant diseases and their management.

To understand neo avenues of application of technologies like hydroponics.

Course Outcomes: After the successful completion of the course, Learners will be able to

Identify and distinguish between different types of outdoor plants.

Describe the cultural methods used for growing various outdoor plants

Acquainted with Nursery and green house development and management

Develop entrepreneurial skills of develop various types of outdoor gardens.

Title: Gardening and Landscape Designing

	Unit 1 – Introduction to Garden	Credits:02
1.1	Introduction of Garden, History and its Importance	
1.2	Garden styles: Formal and Informal	
1.3	Garden features and plants: Lawns, Hedges, Edges, Flower bed. And Avenues.	
	Unit 2 – Green house Technology, Nursery Development and Modern applications	
2.1	Green house set up, Green house plants and their maintenance	
2.2	Nursery development and management	
2.3	Hydroponics: Methods of preparations, applications, Uses and benefits.	

	Unit 3 – Propagation Practices and Organic fertilizers	
3.1	Propagation and techniques: Cutting, Budding, Layering, Grafting.	
3.2	Biofertilizer: Sources, methods of preparations, applications/uses/Benefits.	
3.3	Vermicompost: Methods of preparation, applications, uses and benefits.	

References:

1. Bose TK, Maiti RG, Dhua RS and Das P. 1999. Floriculture and Landscaping. Naya Prokash.
2. Nambisan KMP.1992. Design Elements of Landscape Gardening. Oxford & IBH.
3. Randhawa GS and Mukhopadhyay A. 1986. Floriculture in India. Allied Publ.
4. Trivedi, PP.1983. Home Gardening. Statesman Press. New Delhi. India.
5. Sabina GT and Peter KV. 2008. Ornamental Plants for Gardens. New India Publ. Agency.
6. Woodrow MG.1999. Gardening in India. Biotech Books.
7. Arora, JS. 1999. Introduction to ornamental horticulture. Kalyani Publishers, Ludhiana, India.