



**University of Kerala**

Discipline	<b>BOTANY</b>				
Course Code	<b>UK1MDCBOT101</b>				
Course Title	<b>LANDSCAPING AND GARDENING</b>				
Type of Course	<b>MDC</b>				
Semester	<b>I</b>				
Academic Level	<b>100 - 199</b>				
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 course, students will acquire knowledge about gardening and landscaping as a growing business venture. They will understand the growing demand in the present day. The course may motivate the students to get into gardening and landscaping startups.				

**Detailed Syllabus:**

Module	Unit	Content	Hrs
<b>I</b>	<b>Introduction to Landscaping and Gardening</b>		<b>08</b>
	1	Importance, Scope, and prospects of landscaping and gardening.	
	2	Designing and Preparation of Landscapes and Gardens. Outdoor and Indoor concept – Functional uses of plants for different purposes.	
	3	Landscape- Principles, Elements, Designs; Types of Landscape– Landscaping Highways, City Parks and Home. (brief study only)	
<b>11</b>	<b>Lawns - preparation and maintenance</b>		<b>08</b>
	4	Lawn – Types of lawn grasses, methods of establishing lawn – Land preparation, planting, mowing, rolling,	
	5	Application of manures and fertilizers, irrigation, weed control, plant protection, and rejuvenation of lawns.	
<b>III</b>	<b>History of gardening trends</b>		<b>08</b>
	6	Types of gardens – Styles in gardening- Characteristics and components of English gardens, Mughal gardens, Japanese gardens, Persian, French and Italian gardens- Popular gardens in India.	
	7	Garden Components – Living components – Non-living components – Enrichment items- Description and uses. Garden enclosures, surfacing materials, roads, and paths, advantages and disadvantages- examples	
<b>Selection of plants for gardens</b>			<b>12</b>

IV	8	Annuals and herbaceous perennials — Types ,colour schemes, planting designs – Season and methods of planting – Cultural practices.	
	9	Shrubs and Trees – Types, planting, pruning, maintenance, rejuvenation – Trees for landscapes, avenue planting.	
	10	Climber and Creepers – Cacti, succulents – Ferns and palms – planting, care, and management.  <b>Learning Activity:</b> 1. <i>Field visit to a well-established nursery to study the techniques of gardening.</i> 2. <i>Virtual visits to two important gardens in the world and submit a report, highlighting its Significance</i>	
V	<b>Specialized Gardens</b>		09
	11	Specialized gardening techniques – Roof Garden, sunken garden, water garden, rock garden. Special requirements, establishment, and maintenance	
	12	Indoor gardening of plants – Function, selection, designs, types of indoor plants- Bonsai (brief account) environmental requirements – Containers and media, method of growing, special care for indoor plants, vertical garden, tray garden, terrarium, etc.	

### Suggested Readings

1. Arora, J.S. 1998. Introductory ornamental Horticulture
2. Naik HB, Chandrasekhar SY and Jawaharlal M. Principles of Landscape Gardening. E-book Agrimoon .com
3. Bhattacharjee, S.K. 2004. Landscape Gardening and Design with plants.
4. Bhattacharjee, S..K 2006. Vistas in Floriculture. Pointer publishers
5. Singh,A.K. 2020. Textbook of Floriculture and Landscaping. New India Publishing Agency
6. Bhattacharjee,S.K.(ed). 2006. Advances in Ornamental Horticulture Vol. I to VI. Pointer Publishers, Jaipur.
7. Chadha, K.L. and Choudhury, B. 1992. Ornamental Horticulture in India., ICAR, New Delhi
8. Jindal, S.L. 1987. Flowering shrubs in India. Publications Division, Govt. of India, New Delhi.
9. Swarup.V. 1993. Indoor Gardening, ICAR, New Delhi
10. Kumar, N., 2017, Introduction to Horticulture, Med tech publishers India

### Course Outcomes

No.	Upon completion of the course the graduate will be able to	Cognitive Level	PSO addressed
CO-1	Students will understand the different components of a Garden and the requirement of landscaping.	U	PSO-4

CO-2	Students will familiarise with the important various styles types of Gardens in India and abroad	R, U	PSO-4
CO-3	Students will understand the preparation of Lawn and its maintenance and can apply in home garden	U, Ap	PSO-4
CO-4	Students will be understand the aesthetic significance of various types of plants in landscapes and gardens	U, An	PSO-4
CO-5	Students will be able to understand the aesthetic significance of various special types of gardens and the procedures involved in designing them and based on these information he/she will be able to create new garden designs.	U, Ap, C	PSO-8
CO-6	The course may generate interest in the students to become entrepreneurs in the business of landscaping and gardening	Ap,	PSO-4

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

**Name of the Course: Landscaping and Gardening**

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

CO No.	CO	PO/P SO	Cognitive Level	Knowledge Category	Lecture (L)/Tutorial (T)	Practical (P)
1	1	4	U	FC	L,T	
2	2	4	R, U	FC	L,T	
3	3	4	U, Ap	FP		P
4	4	4	U, An	FC		P
5	5	8	U, Ap, C	FC	T	
6	6	4	Ap,	M	T	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

	<b>Internal Exam</b>	<b>Assignment</b>	<b>Project Evaluation</b>	<b>End Semester Examinations</b>
CO 1	✓			✓
CO 2	✓	✓		✓
CO 3	✓			✓
CO 4	✓			✓
CO 5	✓	✓		✓
CO 6	✓		✓	