



**School of Planning and Architecture: Vijayawada**

(An institution of National Importance under the Ministry of Human Resource Development, Govt. of India)  
Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India

Department of Architecture

**Course:** Plants and Design - MLAR124

**Instructors:** Kapil Natawadkar

**Class:** Ist Yr M. Arch II Sem A.Y. 2024

**Internal Assessment:** 50

**External Theory Exam:** 50

**Total Marks:** 100

**Credits:** 2

**Contact Periods/ week:** 02 Theory + 3Studio.(55 min each)

**Time Table:**

**Attendance:** Min 75%

**Min. Passing Marks:** 50% each in Internal & External Assessment, 50% in Aggregate

**Objective:** To develop an enhanced understanding of the plant material in Landscape Design and to examine the characteristics of Plants with reference to the plant material in design.

**Out Line of the Course:** : Planting design, Visual, aesthetic and functional considerations, Planting in various environments and Plants and sustainability

**LECTURE PLAN**

WEEK	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	TOPIC OF STUDIO WORK& ASSIGNMENTS / REMARKS
1	Week-1 10-01-2024	<ul style="list-style-type: none"><li>Planting design through the ages - a historic perspective.</li><li>Planting as a design element for structuring the landscape.</li></ul>	Studio - Plant identification
2	Week-2 17-01-2024	Differentiation between trees, shrubs, ground cover and creepers. Planting for appearance of form, leaf color and texture, branching habit and trunk form and their texture, color of flowers and fruits. Spring, winter summer and autumn variation in appearance. Planting for visual effect and accent.	Studio - Planting desing of Small scale Project. Introduction of Assignment 01
3	Week-3 24-01-2024	Visual, aesthetic and functional considerations in planting design. Planting for shelter, windbreaks and shelter belts.	Studio - Planting desing of Small scale Project
4	Week-4 01-2024 31-	The role of plant material in environmental improvement, (e.g. soil conservation, modification of microclimate).	Landscape Lab and Field Visit
5	Week-5 07-02-2024	Planting design and ecological considerations, stratification of plant material in nature, herbal plants and their uses.	Studio - Planting desing of Small scale Project. Submission of Assignment - I
6	<b>Week-6 14-02-2024</b>	<b>Study Tour</b>	
7	Week-7 21-02-2024	of fast, medium and slow growing trees. • Comparison of advantages and disadvantages of fast, medium and slow growing trees.	

8	<b>Week-8 28-02-2024</b>	<b>MID-Semester Exam</b>	<b>Time Problem</b>
9	Week-9 06-03-2024	• Plants and sustainability, Growth rate of plants as a criterion for plant choice for particular situations.	Studio - Planting design. Introduction of Assignment 02
10	Week-10 13-03-2024	Planting and transplanting trees and shrubs. Planting for shelter, windbreaks and shelter belts.	Studio - Planting design - Regional landscape Project
11	Week-11 20-03-2024	• Planting in various environments such as woodlands, forests, rural areas, urban areas, roadside planting in urban and rural areas, industrial sites etc.	Studio - Planting design - Regional landscape Project
12	Week-12 03-2024	• Planting design for habitat such as grasslands, woodlands, sloping areas, marshes, bogs, wetlands, waterside and aquatic planting etc.	Studio - Planting design - Regional landscape Project
11	Week-13 03-04-2024	• Estimation of costs and Bill of quantities.	Studio - Planting design. Submission of Assignment 02
12	Week-14 10-04-2024	• The preparation of planting concepts, planting plans and plant schedules for various scales of project.	
13	Week-15 04-2024	• Maintenance of plant material	

S. No.	Stages of Evaluation	Weightage
1	First stage: Assessment –1	15
2	Second stage: Mid-semester Examination	20
3	Third stage: Assessment –3	15
	Total	50

**Reference Books:**

1. Bose,T.K., Chowdhury.B.and.Sharma,S.P. (2011) Tropical Garden Plants in Colour, New Delhi: Horticulture And Allied Publishers.
2. C, R.S. and KK, R.K.A.R. (n.d) Estimating and Costing.
3. Elements of Planting Design, Richard Austin, John Wiley & Sons, Inc., New York, 2002
4. Hackett, B. (1979) Planting Design, McGraw Hill.
5. H, S. (1966) Common Trees –India, The Land And the People , New Delhi: National Book Trust.
6. Jagdish, S.G.a.S. (Delhi) Estimating Costing And Valuation, Standard Pub. Dis.
7. Longman, P.B.S.a.O. (Calcutta) Civil Engineering,Contracts And Estimates.
8. N, D.B. (n.d) Estimating and Costing In Civil Engineering, Theory And Practice.
9. N.H, N.R. (2004) The Planting Design Handbook, England: Ashgate Publishing Limited.
10. Walker, T.D. (1991) Planting Design, John Wiley and Sons

**Head of Department/Coordinator:**

**Course Instructors:**

sd/-  
(Kapil Natawadkar)

sd/-  
Dr. Uma Shankar B.