



School of Planning and Architecture: Vijayawada
(An Institute of National Importance under the Ministry of Education, Govt. of India)
Survey No.4/4, ITI Road, Vijayawada-520008, Andhra Pradesh, India

Department of Architecture

Course:	MLAR112: Plants Systematic, Plant Processes, Field Study and Edaphic Parameters	Class: MLAR I Yr I Sem A.Y. 2026-27
Instructors:	Ms. Somaina Islary	Internal Assessment: 50
		External Exam: 50
Contact Periods/ week:	05 Periods (55 min. each)	Total Marks: 100
Time Table:		Credits: 5
Attendance:	Min 75%	Min. Passing Marks: 50% each in Internal & External Assessment, 50% in Aggregate
Objectives: To develop an understanding of the plant material in Landscape Design. Examine the characteristics of Plants with reference to the plant material in design. Field trips with experts are required to identify the specific characteristics of the plants. Students are required to prepare a herbarium.		

LECTURE PLAN

WEEK	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	TOPIC OF STUDIO WORK & ASSIGNMENTS / REMARKS
1	Week-1	Fundamentals of plants, identification of physiological characteristics, deciduous and evergreen. Classification of Plant Kingdom, Plant Taxonomy.	SPAV Campus tour for plant identification
2	Week-2	Structure of plant cells, tissues and organs in relation to plant functions - Dicot Plants	Lecture, Discussion and Quiz
3	Week-3	Structure of plant cells, tissues and organs in relation to plant functions - Monocot Plants	Lecture, Discussion and Quiz
4	Week-4	Field Trip for LA Design Studio	-
5	Week 5	Principles of nomenclature and identification. General study of plant morphology and anatomy to understand the plant functions.	Field Visit to Rajiv Gandhi Park for identification of plant materials and their morphological characteristics
6	Week-6	Plant formation in eco-zones. Interdependence of animals and plants.	Lecture, Discussion and Quiz
7	Week-7	Plant growth habits, habitat, origin, growth duration, leaf arrangement, leaf type, main flower colour, flowering period, family, genus. Structural Characteristics of Plants - trees, shrubs and groundcovers.	Assignment: Internal Assessment 1
8	Week-8	Preparation of Herbarium (Plants Identification and Understanding of Plant Morphology)	Field Trip to Mangalagiri Hills
9	Week-9	Genesis, morphology and classification of soils. Properties of soil: Physical, chemical, biological and mineralogical.	Mid-semester Assessment
10	Week-10	Relationship between geology, soil and vegetation	Lecture, Discussion and Quiz
11	Week-11	Understanding plant identification, culture and costing; plant material and their groupings,	Plant Nursery and Greenhouse Visit at V.S.R Nursery, Tadepalli
12	Week-12	Techniques and methods of plant propagation	Lecture and Studio (Landscape Design with Vegetation for a micro site)

13	Week-13	Plant Materials of Andhra Pradesh	Lecture and Studio
14	Week-14	Application of Plant Material in Landscape Design	Lecture and Studio
15	Week-15	Evaluation and Presentation of Final Report of Plant Herbarium	Assignment: Preparation of Herbarium Internal Assessment 3
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. Ambasht, R.S. and Ambasht, N.K. (2002) Modern Trends in Applied Terrestrial Ecology, 1st edition, US: Springer US.
2. Austin, R. (2001) Elements of Planting Design, 1st edition, New York: John Wiley & Sons.
3. Randhwa, M.S. (1957) Flowering Trees, New Delhi: Indian Council Of Agricultural Research.
4. H, S. (1966) Common Trees –India, The Land And the People, New Delhi: National Book Trust.
5. Keith, R. (1974) Man, nature and ecology, Aldus book limited.
6. Kluwer academic publishers (2018) Landscape Ecology, 3rd edition, Netherlands: Springer Netherlands.
7. Kormondy, E.J. (1969) Concepts of Ecology, 4th edition, Prentice Hall.
8. Bose, T.K., Chowdhury, B. and Sharma, S.P. (2011) Tropical Garden Plants in Colour, New Delhi: Horticulture And Allied Publishers.
9. M., L.a.G.H. (1964) Taxonomy of Vascular Plants, New York: Oxford.

Course Instructors:

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(Ms. Somaina Islary)

Head of Department:

(Prof. Dr. Amitava Sarkar)