



School of Planning and Architecture: Vijayawada

(An institution 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: MLAR214; Landscape Resources

Class: IIInd Yr M.Arch (LA) III Sem A.Y. 2024-25

Instructors: Ar. Siddesh Mundle

Internal Assessment: 50

External Theory Exam: 50

Contact Periods/ week: 04 periods.(55 min each)

Total Marks: 100

Time Table: Thursday (02 periods), Monday (02 periods)

Credits: 4

Objective: To develop an understanding on landscape resources and its importance to conserve, protect and maintain for environmental benefits and well-being.

LECTURE PLAN

WEEK	DATE	TOPIC OF CLASS LECTURE & DISCUSSION	TOPIC OF ASSIGNMENTS / REMARKS
1	Week-1	UNIT 1 Settlements and Landscape: Siting and evolution of cities in relation to regional landscape resources; Role of landform, water systems, climate and vegetation.	Internal Assessment -1 Understanding the Evolution of cities in relation to regional landscape Characteristics.
2	Week-2	UNIT 1 Water management in ancient / historic cities- Greek, Roman, Indian, etc.Traditional Knowledge systems. Illustrative studies of cities in India and elsewhere. Definition and characteristics of micro climate.	Lecture+ Internal Assessment 2- Understanding water management systems in Cities in ancient times.
3	Week-3	UNIT 1 Role of landscape components in Modifying microclimate with respect to temperature, humidity, precipitation, air corridors, heat islands, wind speed etc., in cities; Evaluation of microclimate data.	Lecture
4	Week 4	Air pollution and Bio-meteorology: climatic comfort indices; heat transfer; meteorological instrumentation and plant injury; Types of air pollutants, sources and consequences. Air pollution and plants, Air pollution monitoring and quality criteria.	Lecture
5	Week-5	Study tour- 27/8/24 to 08/09/24	
6	Week-6	UNIT 2 Urban environmental issues such as solid waste management, air quality, conservation of water resources and vegetation cover;	Lecture

7	Week-7	UNIT 2 The urban forest: Its ecological, social and environmental dimensions. Ways of studying urban vegetation and its role in the urban landscape.	Lecture
7	Week-8	UNIT 3 Landscape heritage: Open space systems, cultural and sacred landscapes, their typology and role in the development of cities. Landscape resources specific to distinctive city types.	Lecture
8	Week-9	UNIT 3 City development Plans, Zonal Plans and structure plan. Development controls and their role in the conservation and creation of urban landscape.	Lecture
9	Week 9	Mid-semester assesment	Internal assesemnt 3- M.C.Q TEST
10	Week-10	Unit 3 Overview of landscape resources at the national level: National Environment Policy; Developmental and Environmental issues associated with particular landscape regions.	Lecture
11	Week-11	UNIT-4 The rural landscape: Agriculture and forestry as competing uses, the impact of industry and power generation; Forest types of India; introduction to Forest Policy and management of forest resources.	Lecture + Internal assesment 4 Understanding general definitions and examples of Conservation forestry, agro forestry, forest types in india
12	Week-12	UNIT-4 Conservation Forestry, Agro-Forestry and Social Forestry; Significance of biodiversity, urban biodiversity, wildlife conservation; Agricultural practices and the formation of traditional rural landscape.	
13	Week-13	UNIT-4 Illustrative examples from different climatic and geographic regions; Factors associated with the location and functioning of extractive and manufacturing industry in the rural landscape.	Internal Assessment -5 (Presentations) A. Cultural Landscape & Sacred Landscape with WH examples; B. Summary of NEP (environmental issues associated with particular landscape regions. C. Report on Wetland Management and Watersheds with case studies
		UNIT-5	

13	Week-13	Wetlands: definition, wetland values and conservations. Wastelands management. Land reclamation and rehabilitation.	Lecture + Discussion
14	Week-14	UNIT-5 Watersheds and the importance of watershed management. Resource conservation, land capability classification; mechanical, vegetative and agronomic measures in soil and water conservation;	Lecture + Discussion
15	Week-15	UNIT-5 Techniques and criteria for evaluation of regional landscape resources.	Lecture + Discussion

S. No.	Stages of Evaluation	Weightage
1	First stage: Assessment	5
2	Mid Semester Examination	10
3	Third stage: Assessment	20
4	Fourth stage assesment	10
5	Fifth stage assesment	5
	Total	50

Outcomes: Students finishing this course will be able to:

1. Understand the importance of settlement patterns in connection to various rural and urban landscape resources based on landscape heritage values.
2. Identify the role of air pollution and its impact on the urban forest.
3. Interpret the various environmental policies pertaining to the valuable landscape resources.
4. Understand the value of wetland which can be integrated in landscape planning.

Reference Books:

1. Betsy Otto, K.M.C.a.M.L. (2004) Ecological Riverfront Design: Restoring Rivers, Connecting Communities, 1st edition, APA Planning Advisory Service.
2. Walesh,..S. G(1989) Urban surface water management by, New York: John Wiley.
3. Givoni, B. (1994) Passive and low energy cooling of Building, , New york: Van Nostrand Reinhold.
4. Marsh, G.P. (2015) Man and Nature, Andesite Press.
5. Minke.G, B.N.K.a. (1988) Climatic zones and rural housing in India, Jülich : Zentralbibliothek d. Kernforschungsanlage.
6. P.C, B. (2004) Water Management in India , Concept Publishing Company.
7. Robert Brown and Jenny J Gillespie (1995) Micro climatic landscape design – creating thermal comfort and energy efficiency, New York: John Willey publication.
8. Row, V.W.a.H.&. (1985) Water Management-Technology and Institutions.
9. Schiller, A.S.M.&.M. (n.d) Landscape design that saves energy, , Newyork: William Marison & Co.
10. Vaidhyanathan (2004) Managing Water Scarcity, Lordson Publisher Pvt Ltd.

Course Instructors:

Head of Department :

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sd/-
(Ar. Siddesh Mundle)

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(Dr.Srinivas Daketi)