

	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:	MACO124 - Information Management	Class: M.Arch 1st Year II- Semester 2024
Instructors:	Ar.Renuka Wakharkar	Internal Assessment: 50
		External Theory Exam: 50
Contact Periods/ week: 03 periods.(55 min each)		Total Marks: 100
Time Table:	Monday (03 periods)	Credits: 3
Objective: The objective is to understand and apply various methods of information gathering through different strategies for a given context of settlement level or a city. Exploring various digital mapping tools, methods and analytical processes		

Week	Lecture Plan	Remarks/Topic of Assignment
Week 1 10.1.24	Introduction to the course and syllabus overview.	Lecture
Week 2 17.1.24	Methods of Recording categorization and organizing / management of data	Lecture
Week 3 24.1.24	Data as a source of information; Process of translating data to information through varied mediums. Methods /Types of Mapping Manual/Digital/Combination	Lecture+Discussion
Week 4 31.1.24	Surveying methods for heritage sites. Manual/Digital/Combination	Lecture
Week 5 7.2.24	Types of Information systems and its types-Manual and Digital	Lecture
Week 6 14.2.24	Data Deduction methods	Lecture

Week 7 21.2.24	Using data for Diagnostics at a settlement/ heritage zone level using emerging technologies	Lecture+Discussion(Assessment 1)
Week 8 28.2.24	Role and use of DEM for heritage sites	Lecture
Week 9 6.3.24	Methods for generating a DEM- Data Acquisition through different tools like >Photogrammetry-Aerial/Terrestrial/Drone/Close range	Lecture+Discussion
Week 10 13.3.24	>Lidar >GPS/GIS	Lecture+Conservation Lab
Week 11 20.3.24	LiDar Scanning-applicability	Lecture+Conservation Lab
Week 12 27.3.24	3D modelling tools for translating data	Lecture+Conservation Lab
Week 13 3.4.24	Data Processing Point Cloud Processing - Software tools like CloudCompare, LASTools	Lecture+Conservation Lab Assessment 2
6.4.24	Image Processing -Autodesk Recap,Agisoft Metashape,Blender Analysis of Elevation data -software, such as QGIS or ArcGIS,	
Week 14 10.4.24	Applicability of DEM for varied aspects of analysis for Heritage sites	Lecture+Conservation Lab
Week 15 17.4.24	Heritage Resource Management	Lecture Assessment 3

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

Outcomes: Students finishing this course will be able to: Process, compile, link, analyze and interpret digital data for heritage resource management

Reference

1. R. Agor, Advanced Surveying.
2. Donhead, 1993 Swallow, Peter, Measurement and Recording of Historic Buildings.
3. Donhead, 1996 Watt, D & Swallow P, Surveying Historic Buildings
4. Butterworth, 1990, Guide to recording Historic Buildings
5. Council of Europe, 1992 Proceedings, French Ministry, Architectural Heritage: Inventory and Documentation, Methods in Europe
6. Meredith H. Sykes, Manual on Systems of Inventorying Immovable Cultural Property, UNESCO, 1984
7. MacDonald, Lindsay, ed, Digital Heritage: Applying Digital Imaging to Cultural Heritage, 2006
8. James Hemsle, Vito Cappellini, Gerd Stanke, Digital Applications for Cultural and Heritage Institutions (Ashgate)
9. Eun Sul Lee and Ronald N. Forthofer Geographic Information Analysis David, Analyzing Complex Survey
10. John Krygier and Denis, O'Sullivan and David J. Unwin Making Maps: a Visual Guide to Map Design for GIS

Course Instructors:
sd/-
(Ar. Renuka Wakharkar)

Head of Department :
sd/-
(Dr. Umashankar Basina)