



L.J. SCHOOL OF PLANNING

MASTERS OF URBAN AND REGIONAL PLANNING

SEMESTER-2

COURSE TITLE	ADVANCED PLANNING TECHNIQUES
COURSE CODE	040070205
COURSE CREDITS	2
NUMBER OF SESSIONS	20
COURSE TYPE	Core
COURSE OFFERED IN	Sem 2
DEPARTMENT	L.J. School of Planning
COURSE FACULTY	Anjana Vyas

COURSE DESCRIPTION:

The objective of this course is to give idea to the students about how to create Data Base for Physical surveys (including land use / building use / density / building age, etc.) and Socio-economic surveys. Also introducing about questionnaire formulation, Sampling and survey techniques, etc. Land use classification / coding. Students would also get familiar with Coordinate system, geo-referencing and geo-coding; GIS data processing (Digitization, topology building and metadata creation), Data structures and modeling, GIS analysis (Buffer, proximity and overlay) In this course, students also explore types of reports with specific focus on technical report writing; Organizing the report, structure chapter organization, Writing the report (analytical findings); Referencing in text, use of software in referencing

Evaluation criteria:

The evaluation is based on two distinct components, viz. assignments/reviews/hands on from Modules 1, 2, 3 and 4 and an end-Semester written examination covering all Modules.

Type Weightage (%)

Test I Oral Review / Presentation - 10%

(Class exercise - Identification of a project live or hypothetical and carry out PM related SOP's, time schedule development, cost management plan, HR, procurement and close out stages.)

Internal test - 20%

Test II Project Review presentation - 20%

Test III Written Examination - 50%

Pedagogical approach:

Classroom lectures, review papers, students' presentations, case studies discussion on various theories of development & Planning.

COURSE CONTENTS			
Module	Topic	Lectures	Hours
1.	Survey Techniques Data Base for Physical surveys (including land use / building use / density / building age, etc.) and Socio-economic surveys; Questionnaire formulation, Sampling and survey techniques, etc. Land use classification / coding.	2	4
2.	GIS Mapping Coordinate system, Georeferencing and geo-coding; GIS data processing (Digitization, topology building and metadata creation), Data structures and modeling, GIS analysis (Buffer, proximity and overlay), Decision making through GIS, Information systems (Land Information system, Urban Information system for various activity sectors).	6	12
3.	Research Design & Implementation Approaches in research, developing a method for research; Questionnaire Design, Types of data, sampling methods; developing aims, objectives, scope, limitations; and literature research using library, accessing the Internet	2	2
4.	Analytical Techniques, Presentation and Report Writing Data tabulation; Interpretation of information; Graphical presentation of data; Spatial representation of data; Types of reports with specific focus on technical report writing; Organizing the report, structure chapter organization, Writing the report (analytical findings); Referencing in text, use of software in referencing	6	12
	Total	16	32