



L.J. SCHOOL OF PLANNING MASTERS OF URBAN AND REGIONAL PLANNING SEMESTER-1

COURSE TITLE	STUDIO ASSIGNMENTS
COURSE CODE	040070102
COURSE CREDITS	8
NUMBER OF SESSIONS	20
COURSE TYPE	Core
COURSE OFFERED IN	Sem I
DEPARTMENT	L.J. School of Planning
COURSE FACULTY	Dr. C.N.Ray, Peeyush Purohit, Fagun Rajkotia

Pedagogical approach:

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

COURSE CONTENTS			
Module	Topic	Lectures	Hours
1.	GIS Applications Coordinate system and geo-coding, vector data structure and algorithms, raster data structure and algorithms, data bases for GIS concepts, error modeling and data uncertainty, decision making through GIS, constructing spatial data infrastructure and spatial information system; National Urban Information system.	3	6
2.	Remote Sensing Why remote sensing, aerial and satellite remote sensing, principles of aerial remote sensing, Aerial photo-interpretation, photogrammetry, stereovision, measurement of heights / depths by relief displacement and parallax displacement. Principles of satellite remote sensing, spatial, spectral, temporal resolutions. Applications in planning, population estimation, identification of squatter / unauthorized areas, sources of pollution, etc., spatial resolution related to level of Planning	3	6
3.	Demography	4	8

	<p>Sources of demographic data in India, Settlement type, growth pattern and structure: urban settlement analysis, Concentration: spatial, vertical and size, peri-urban sprawl, economic base; Rural Settlements Size, occurrence and character, transformation, Policies towards various size class settlements.</p> <p>Population structure and composition Age, sex, gender, marital status, caste, religion, literacy level, etc.; Age - sex ratio, structure, pyramid; dependency ratio; occupational structure; Fertility; mortality, migration analysis, natural growth of population, migration and its implications in spatial planning</p>		
4.	<p>Statistical Applications General concepts - statistical interference, population and samples variables, Sampling, simple statistical models, Measures of central Tendency, Measures of Dispersion, Measures of shape of distribution, Correlation and regression</p>	2	4
5.	<p>Film appreciation</p>	2	4
6.	<p>Town Planning Scheme Preparation</p>	4	8
		16	36