

**SCHEME AND SYLLABI**  
**FOR**  
**MASTER OF PLANNING**  
**(URBAN AND REGIONAL PLANNING)**

**University School of Architecture and Planning**  
**and**  
**Affiliated Institutes**  
**(w.e.f. Academic Session 2021-22)**



GURU GOBIND SINGH  
INDRAPRASTHA  
UNIVERSITY

**Guru Gobind Singh Indraprastha University**  
**Sector – 16C, Dwarka, New Delhi-110078**  
**New Delhi- 110078**  
**INDIA**

Ph.: 011-25302662, website: ipu.ac.in

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## 1 Master of Planning (Urban and Regional Planning), USAP

The University School of Architecture and Planning of Guru Gobind Singh Indraprastha University (GGSIPU) offers two year full-time post-graduate degree course Master of Planning (Urban and Regional Planning), henceforth referred to as M. Plan. (MURP).

### 1.1 Academic Programme

- 1.1.1 The USAP usually commences its Academic program in the month of August every year.
- 1.1.2 The duration of the M. Plan. (MURP) program is of two academic years or four semesters comprising of 16 weeks of Imparting of instructions / teaching work (including class test) each.
- 1.1.3 The minimum period required for completion of the programme shall be two academic years.
- 1.1.4 The maximum period allowed for completion of the programme shall be  $n+2$  academic years, (where 'n' is the duration of the course), i.e., 4 yrs.
- 1.1.5 A student shall have to earn a minimum of 101 credits out of a total of 106 credits specified by the Syllabi and Scheme of Teaching and Examination of the programme for the award of the degree.

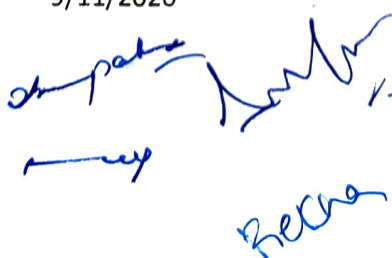
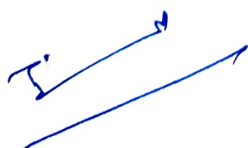
### 1.2 M. Plan (Urban and Regional planning) Pedagogy

- 1.2.1 The course is divided into four semesters. As planning is multidisciplinary stream so in first Semester students would be taught basic foundation subjects to make them familiar and enhance their understanding of planning and to improve their analytical skills. Students would be introduced to various theoretical and application based subjects of planning so that students from diverse backgrounds disciplines could be brought to a common platform of understanding.

The Second and Third semesters deal with core subjects of Urban and Regional Planning. The structure of the syllabus has studio with various theoretical subjects including electives providing appropriate base of knowledge and tools. The studio problems would address issues of regional and urban planning in consecutive semesters. There is an option for students to opt for Electives or to do MOOC's courses of equivalent credits. The subject 'Seminar in third semester will orient students towards research work. In the fourth Semester, the focus is mainly on Thesis being on any topic related to Urban and Regional Planning.

- 1.2.2 Since practice studio is the primary pedagogical method for the Program, the following norms for teacher: student ratio are to be followed:

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S. No.	Studio Course with Credits	Faculty: Student Ratio
1	Less than 6	1:10
2	6-12	1:5

Note: With reference to the CoA Minimum Standards of Architectural Education Guidelines for Post-Graduate Programme 2006

1.2.3 The semester-wise distribution of credits is as follows:

Credit Structure for M.PLAN (MURP) Programme					
Course work	Semester I	Semester II	Semester III	Semester IV	Total
Core courses	28	24	20		72
Elective Courses	-	2	2	2	06
Lab Courses + Supportive courses		-	-	-	00
Seminar	-	-	6		06
Dissertation	-	-	-	22	22
<b>Total</b>	<b>28</b>	<b>26</b>	<b>28</b>	<b>24</b>	<b>106</b>

\*1 Hr Practical/ Studio = 1 Credit

### 1.3 Evaluation and Examination

1.3.1 The evaluation of students in a course shall have two components:

- (i) Continuous evaluation (CE) by the teacher(s) of the course.
- (ii) Evaluation through an Semester End Examination (SEE).

1.3.2 The guidelines for distribution of weightage for various components of evaluation shall be as below:

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**a. Theory Courses:**

(i) Continuous Evaluation (CE) by teacher(s) -	25%
(ii) Semester End Examination (SEE) -	75%

**b. Practical / Laboratory / Studio Courses:**

(i) Continuous Evaluation (CE) by teacher(s) -	50%
(ii) Semester End Examination (SEE) -	50%

1.3.3 The Continuous Evaluation (CE) by teacher(s) shall be based on the following criteria:

**a. Theory Courses:**

One Class Test per semester -	10 Marks
Assignment / Group Discussion / Viva Voce /	
Additional test / Quizzes etc. -	15 Marks

**b. Practical / Laboratory / Studio Courses:**

The Continuous Evaluation (CE) by teacher(s) shall be based on performance in the coursework through assignments of various nature including studies, exercises, presentations and reports etc. as prescribed by teacher(s) at suitable intervals during the semester.

**1.4 Criteria for Passing Course/s**

1.4.1 To pass a course and earn its assigned credits, it shall be essential for a student to obtain a minimum of 50% marks of total marks ( sum of both Continuous Evaluation by teacher(s) and Semester End Examination). A student who secures less than 50% marks in a course shall be deemed to have failed in that course.

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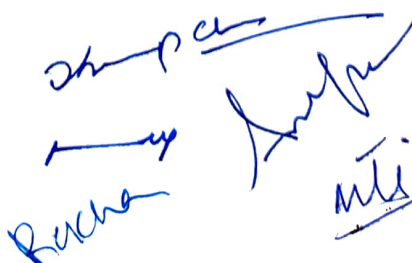
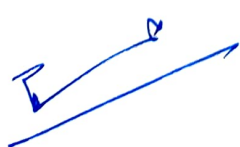
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- 1.4.2 To pass / qualify in a course, the student must appear in all components of the course. Non-appearance or being absent in any component shall mean that the student has failed in that course.
- 1.4.3 A student obtaining less than 50% marks in a course ( sum of both Continuous Evaluation by teacher(s) and Semester End Examination) and failing in the course, shall be allowed to re-appear in Semester End Examination of the course in the subsequent year, when the course is offered, subject to maximum permissible period as mentioned in 1.1.4.
- 1.4.4 Students who are eligible to re-appear in a Semester End / Supplementary Examination shall have to apply to the Controller of Examinations through the School / Institution concerned and pay the examinations fees as prescribed by the University, to be allowed to reappear in an examination.
- 1.4.5 The re-appearing student who secured less than 50% marks of the maximum marks of Continuous Evaluation by teacher(s) also have the option to repeat and improve the class test/ assignment(s) performance with regular batch of student. In such cases, the student will be required to apply for such improvement after the declaration of Results by University in the said year, to the Dean/ Director of the School/ Institute. The revised marks, if received from the School / Institution concerned at least 5 days before the commencement of Semester End Examinations shall be considered, otherwise the previous marks, already obtained by the student shall be taken into account without any modification. If such students do not re-appear in the Semester End Examinations, the improvement in teacher's continuous evaluation shall not be taken into account for result declaration.

## 1.5 Promotion Policy to the Next Academic Year

- 1.5.1 Upon declaration of the results of the semesters of an academic year, a student failing in any course or courses aggregating more than 8 course credits shall not be eligible for promotion to the next academic year.
- 1.5.2 A student who fails to get promoted to next academic year for the reason of deficiency in required credits, as stated above or due to being detained in a particular academic year, will automatically be declared to have taken an academic break. Such students shall be eligible to repeat such examinations as per 1.4.3 so as to obtain sufficient credits to be promoted to the next academic year. Such a student shall not be required to repeat any course that student has already completed successfully.

## 1.6 Semester End Examination

- 1.6.1 For the studio/ practical examination of the courses, every student in each course shall be evaluated by two external examiners. The sessional work, project, design, research, etc. shall be assessed by this jury of external examiners.

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Master of Planning (Urban and Regional Planning)

- 1.6.2 For the Final Year Course of MURP Thesis (MURP 401) every student shall be evaluated by two external examiners and an examiner is to examine not more than 05 students in a day. The Exam may be conducted over a period of two days.
- 1.6.3 Examinations for all theory courses shall be held at the end of semester. The course content of each theory course has been divided into Four Units. The question paper must cover the entire syllabus with at least one question from each of the four units. The question paper will be for a maximum of 75 marks. Adequate choice must be provided to the students. The duration of examination shall be three hours for theory courses.
- 1.6.4 The payment for each examiner shall be made as per the approved rates of the University.
- 1.6.5 Ordinance 11 shall be applicable to the conduct of teaching and examination of this programme of study.

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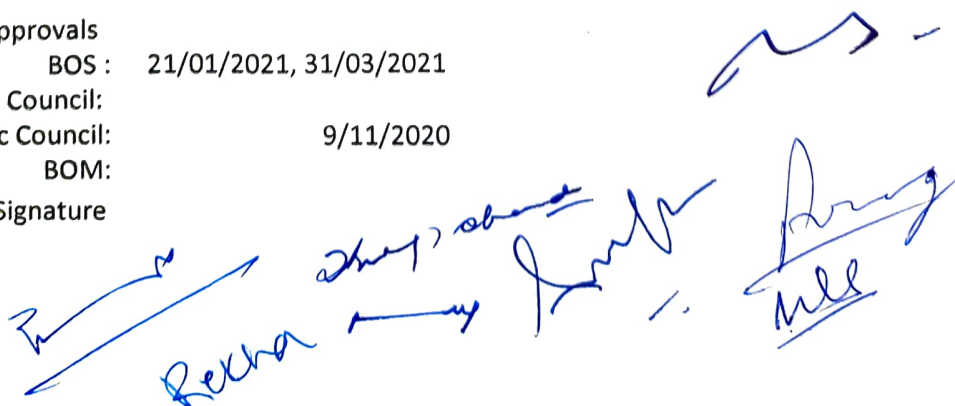
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UNIVERSITY SCHOOL OF ARCHITECTURE AND PLANNING, GGSIPU  
COURSE STRUCTURE MASTER OF PLANNING  
(Urban and Regional Planning)  
[TO BE IMPLEMENTED W.E.F. ACADEMIC  
YEAR 2021-2022]

Credit Structure for M.PLAN (MURP) Programme					
Course work	Semester I	Semester II	Semester III	Semester IV	Total
Core courses	28	24	20		72
Elective Courses	-	2	2	2	06
Lab Courses + Supportive courses		-	-	-	00
Seminar	-	-	6		06
Dissertation	-	-	-	22	22
<b>Total</b>	<b>28</b>	<b>26</b>	<b>28</b>	<b>24</b>	<b>106</b>

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SEMESTER-I M.PLAN (MURP)											
S. No	COURSE CODE	SUBJECT	COURS E	TEACHING SCHEME(Hours/Week)			EXAMINATION SCHEME				CREDI T
				Practica l (0.5)	Lecture (1)	Studio (1)	Paper	Sessional/ Minors	End Semester Viva Voce/Exami nation	Tota l	
1	MURP 101	Planning Studio 1	Core	-		12	Viva	50	50	100	12
2	MURP 102	Planning History and Theory	Core		2		Exa m	25	75	100	2
3	MURP 103	Infrastructure Planning	Core	-	4		Exa m	25	75	100	4
4	MURP 104	Economics	Core		2	-	Exa m	25	75	100	2
5	MURP 105	Sociology	Core	-	2		Exa m	25	75	100	2
6	MURP 106	Habitat& Environment	Core	-	2	-	Exa m	25	75	100	2
7	MURP 107	Statistics and Data Analytics-1	Core	-		4	viva	50	50	100	4
TOTAL (SEMESTER I)					12	16		225	475	700	28

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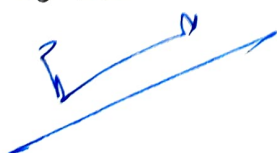
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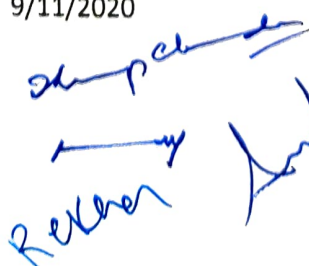
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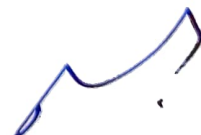
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SEMESTER-II M.PLAN (MURP)											
S. NO	COURSE CODE	SUBJECT	COURSE	TEACHING SCHEME(Hours/Week)			EXAMINATION SCHEME				CREDITS
				Practical (0.5)	Lecture (1)	Studio (1)	Paper	Sessional/Minors	End Semester Viva Voce/Examination	Total	
1	MURP 201	Planning Studio-2 (Urban Planning)	Core	-		12	Viva	50	50	100	12
2	MURP 202	Project Planning and Management	Core		2	-	Exam	25	75	100	2
3	MURP 203	Disaster Mitigation and Management	Core	-	2	-	Exam	25	75	100	2
4	MURP 204	Land Economics and Real Estate	Core	-	2		Exam	25	75	100	2
5	MURP 205 (Elective pool)*	Elective 1: Public Private Partnership (PPP)	Elective		2		Exam	25	75	100	2
		Elective 2: Inclusive Urban Planning									
		Elective 3: Urban Mobility									
6	MURP 206	Sustainable Planning Practices and Development	Core	-	2	-	Exam	25	75	100	2
7	MURP 207	Statistics and Data Analytics-2	Core			4	Viva	50	50	100	4
TOTAL (SEMESTER II)					10	16		225	475	700	26

\*MOOC courses are also applicable of same credits

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SEMESTER-III M.PLAN (MURP)											
S. No	COURSE CODE	SUBJECT	COURS E	TEACHING SCHEME(Hours/Week)			EXAMINATION SCHEME				CREDI T
				Practica l (0.5)	Lecture (1)	Studio (1)	Paper	Sessional/ Minors	End Semester Viva Voce/Exami nation	Tota l	
1	MURP 301	Planning Studio- 3 (Regional Planning)	Core	-	-	12	Viva	50	50	100	12
2	MURP 302	Regional Planning and Development	Core		2	-	Exa m	25	75	100	2
3	MURP 303	Planning Legislation	Core	-	2		Exa m	25	75	100	2
4	MURP 304	Local Governance, Management and Finance	Core		2	-	Exa m	25	75	100	2
5	MURP 305	Tourism Planning	Core	-	2	-	Exa m	25	75	100	2
6	MURP 306	Elective 1: City Design and Green Space Planning	Elective	-	2		Exa m	25	75	100	2
		Elective 2: Urban Design & Heritage									
		Elective 3: Smart Cities									
7	MURP 307	Seminar	Core	-		6	Viva	50	50	100	6
TOTAL (SEMESTER III)					10	18		225	475	700	28

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SEMESTER-IV M.PLAN (MURP)											
S. No	COURSE CODE	SUBJECT	COURSE	TEACHING SCHEME(Hours/Week)			EXAMINATION SCHEME				CREDIT
				Practical (0.5)	Lecture (1)	Studio (1)	Paper	Sessional/Minors	End Semester Viva Voce/Examination	Total	
1	MURP 401	Thesis	Core	-	-	22	Viva	50	50	100	22
2	MURP 402*		Elective		2		Exam	50	50	100	2
		Elective 1: Planning & Politics									
		Elective 2: Planning For Special Areas									
TOTAL ( SEMESTER-IV)					2	22		100	100	200	24

\*MOOC courses are also applicable of same credits

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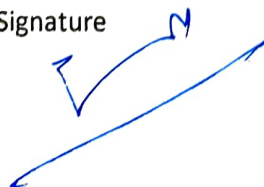
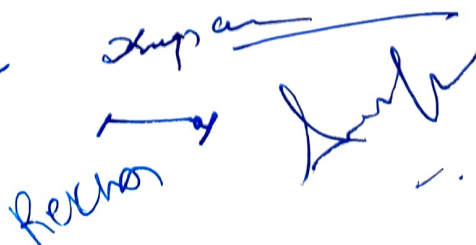
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## SEMESTER 1

Subject Code: **MURP 101**

Subject Name: **Planning Studio 1**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	12	50	50	100	12	Viva
Paper Setting						

### Studio Intent

The first semester Studio aims to develop intimate understanding of a city and equips the students with conceptual, methodological, analytical, and communication skills necessary for becoming a professional urbanist. This studio focuses on an evidence based approach for framing and analyzing complex urban situations and problems

### Expected Outcomes:

1. Students should expect to develop intimate understanding of the city and learn urban spatial analysis, mapping and representational skills, reading and writing skills along with the key concepts and methods to analyse the city.
2. Students should be able to demonstrate the skills of,
  - Mapping and measuring the complexities of the built environment,
  - Engagements with communities through the analysis of surveys and focus group discussions,
  - Writing the descriptive and analytical texts about their analysis and interventions,
  - Familiarity with key texts in urban planning history and theory
3. Students should be able to demonstrate understanding the ways in which their urban analysis and intervention is Evidence driven, cogently informed, sensitive and appropriate to context.

The first six weeks need to be dedicated to exercises/assignments which may include the following modules:

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### Module 1:

#### **Audio-Video Interpretations (1week)**

Film or Documentary related to city development and socio economic issues will be screened for students. The purpose of these films is to educate the students' understanding of various development issues and to absorb the planning practice. At the end of the film, a discourse around the film will also be held. After viewing the films, each student is expected to write about its main focus, city/region context, its applicability to Indian environment by answering the given questions in not more than half a page.

#### **Article/Literature Review (1 week)**

Each student is expected to read the article given from a journal/book and write a summary of not more than a page (250 words only) highlighting the problem, approach, methodology, analysis, how the author arrived at the conclusion and its relevance to Indian context. There will be a negative marking for writing the same text as in the original (that is copying from the original text given to them).

### Module 2:

#### **Area Appreciation (1week)**

The aim of the area appreciation exercise is to enable the students to understand and contextualize the location of the area in relation to the city, zone and area in which the particular place is situated. This is done in relation to the socio-economic, spatial and cultural characteristics of that city, zone, location, etc. The main purpose is to make the students appreciate the locational attributes of land parcels for future development in a city.

Due to the size of the area, this exercise is done in groups of students being assigned to a particular area.

The following planning issues at area level should be identified:

- Review of the Master Plan/Zonal/Area plan in relation to the selected areas.
- Appreciation/Analysis of ward level data.
- Perception of areas in terms of legal/illegal/authorized/unauthorized, Slums, Urban Aesthetics.
- Social Categorizations of people-Type of population living, people's perception about area and its planning problems.
- Landuse including Agriculture land and landuse conflicts, extent(%) of broad landuse such as commercial, industrial, residential, institutional and recreational.

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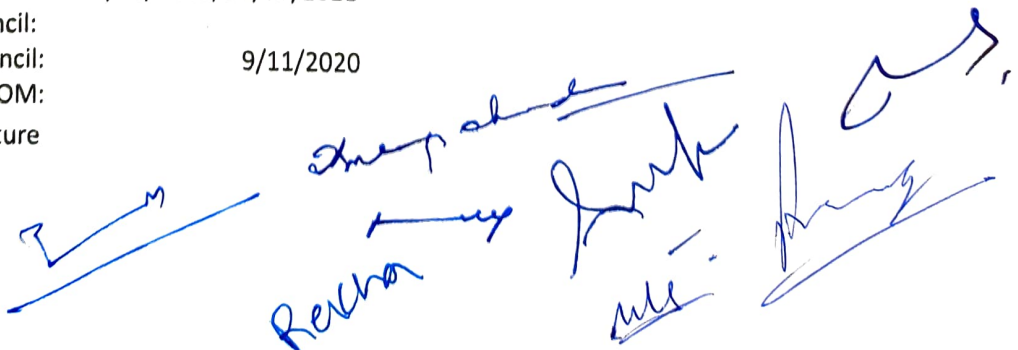
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- Extent of formal/informal activities present in the area including their location and conflicts.
- General land tenure of the area and land value for different uses.
- Major types of transport, type of roads, hierarchy of roads, type of transport modes used.
- Amenities: Location of Social and Physical infrastructure and their problems as perceived by local population. Look for specific infrastructure such as Water supply, drainage(water logging areas), waste collection and disposal system, sanitation, etc.
- Environmental Issues: Open Spaces– Availability and extent of open space to built-up area, garbage disposal, encroachment (through photographic evidences and sketches).

Locating the study area in the zone, city and regional context with respect to all the above aspects.

### Module 3:

#### **SitePlanning (3weeks)**

Site planning is a process where by the optimum utilization of potential of site is considered recognizing the constraints the site has. It uses 3 dimensional spaces of the site and the associated locational advantages, human activities and the regulations that are assigned to a particular site.

The site is developed using a set of standards/norms in a given context which varies from location to location. A student is expected to understand the intricacies and interface between various variables such as soil conditions, topography, environmental dimensions, location, spatial standards applicable to the site, etc.

### Module 4:

#### **Outline Development Plan (10 weeks)**

Introduction to Studio problem: Understanding the Urban Area

The site area to be identified as the study area which could be city, part of city, peri-urban area, urban sprawl, etc. The exercise needs to be conducted in groups and it may cover in detail various factors responsible in the development process.

The exercise will be conducted with respect to the following listed parameters and will be mapped appropriately with available techniques:

- Physical aspects (site and its surroundings with respect to context, regional linkage, connectivity, mobility, topography, geology, geography, morphology, etc.)
- Demography and Statistical Profile
- Land-use study (land-use percentage, typologies, etc.)

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Master of Planning (Urban and Regional Planning)

- Mobility and Transportation (road connectivity and hierarchies)
- Infrastructure (Physical and social)
- Opens spaces and landscape
- Environment and ecology
- Culture and Heritage
- Socio-economic aspects
- Housing and Real Estate
- Policy and Legislations

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Subject Code: **MURP 102**

Subject Name: **Planning History and Theory**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The objective of this course is to make student understand the evolution of settlement from primitive to present. Understanding various theories and concepts of modern planning.

### Contents:

#### Module 1

Relevance of the study of Evolution; Hunter gatherer/ farmer and formation of organized society on the basis of Social, Economic, Religious, cultural etc; Principles and Elements of the city design, City planning in Greek, Roman ancient India medieval, renaissance, industrial and post-industrial cities;

#### Module 2

City as a living & spatial entity; Concepts of landmark, axis, orientation. City form as a living space. City as a political statement. New Delhi, Chandigarh, Washington D.C. etc. Contribution of individuals to city planning. Lewis Mumford, Patrick Geddes, Peter Hall etc.; the dynamics of the growing city. Impact of industrialization and urbanization. Definitions of town and country planning, Orthodoxies of planning, sustainability and rationality in planning, Components of sustainable urban and regional development.

#### Module 3

Urbanization theories eg Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory etc Concepts of City Form eg. Linear City, Garden City Concept; City as an organism: a physical, social, economic and political entity, Contribution to Modern City Planning by Lewis Mumford, Patrick Geddes, Jane Jacobs etc. Emerging Concepts: Global City, inclusive city, Safe city, etc. City of the future, future of the city; shadow cities, divided cities.

Approvals

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#### Module 4

Models of planning: Advocacy and Pluralism in Planning; Systems approach to planning: rationalistic and incremental approaches, mixed scanning and middle range planning, advocacy planning and action planning, equity planning. Types of Plans(master plan, development plan , Structure plan etc.); Goal formulation, objective, scope, limitations; Plan making process, planning methodology and case studies.

#### Suggested Readings:

1. Planning Theory, Healey P., Pergamon Press
2. Cities of the World: World Regional Urban development, Brunn S.D.et all.
3. City Assembled: The Elements of Urban form through History, Kostof Spiro, Thames and Hudson
4. Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century, Hall Peter
5. Urban and Regional Planning Since Independence : Retrospect and Prospect : Technical papers, National Town and Country Planners Congress, Mysore, Ministry of Urban Affairs and Employment
6. Urban Planning : Theory and Practice, Rao M.P., CBS Publishers
7. Urban Pattern: City Planning and Design, Gallion, Arthur B. and Eisner Simon, CBS Publish

#### Approvals

BOS : 21/01/2021, 31/03/2021

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Academic Council:

9/11/2020

BOM:

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Subject Code: **MURP 103**

Subject Name: **Infrastructure Planning**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The focus of the course is to make students understand the components of utility networks, standards, techniques required for planning process.

### Content

#### Module 1

Transportation- Overview of Types and characteristics of transport systems, Hierarchy of roads, design and Road Components, Design of signaled and non signaled Road Intersections, Rotaries. Principles of traffic management. Type of traffic and transportation surveys, survey techniques, planning norms and standards, pedestrian and cyclist issues and parking infrastructure.

#### Module 2

Water supply systems and networks- surface and underground , layout mapping; water sources, quality and per capita requirements, collection and conveyance techniques; water requirement for various land uses, Factors affecting water demand, Storage facilities, Distribution Systems, Locational Criteria, Implications on Land Use and Types of Rain Water Harvesting System.

#### Module 3

Storm water drainage networks, network mapping; general considerations inlets, self cleansing velocity etc physical layout, design principles, Data requirement, projection of sewer generation and network requirements; Sanitation and Sewer System: General considerations and principle, Sewage Disposal and treatment Methods; Innovative Approaches of Sewage disposal in urban area and low cost technologies for Sanitation, Characteristics of Waste Water, Industrial Pollutants and their Effects.

#### Approvals

BOS : 21/01/2021, 31/03/2021

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Solid Waste Disposal and Management: Elements of Solid Waste Management, Classification and Characteristics of Solid Wastes; Methods for Solid waste Collection, Storage, transportation and disposal; Processing and Treatment of Solid Wastes; Land Filling and other methods of Solid Waste Management;

#### Module 4

Power Supply – Sources of Electricity; Transmission, Distribution and Supply network; Sustainable Energy Planning;; Digital Infrastructure Fire Fighting Services - Planning for Fire Protection Services and Space Standards, location criteria;Telecommunications - Infrastructure and Network Systems, environmental economic and social impacts.

Social infrastructure- Typologies; Planning norms , location criteria and space standards for educational, health, recreational facilities etc

#### Suggested Readings:

1. Principles of Urban Transport Systems Planning, B.G. Hutchinson, McGraw Hill
2. Urban Transport: Planning and Management, A K Jain, APH Publishing
3. Traffic Engineering and Transport Planning, L.R. Kadiyali, Khanna Publications
4. Environmental Engineering, Howard S. Peavy, Tata McGrawhill
5. Regulation and the Management of Public Utilities, C. S. Morgan, Gale
6. Water Supply Engineering, S. K. Garg, Khanna Publishers
7. Manual on Sewerage and Sewage Treatment, CPHEEO
8. Urban Planning Manual, AIILGS Reader
9. Solid Waste Management, KrishanaGopiSanoop P, Sasikumar K, Phi Learning
10. Solid Waste Management, Dewan, Sudarshan, Discovery Publishing House
11. Telecommunication Management Networks (TMN) Implementation, Amani Omer, Lambert Academic Publishers 6.
12. Firefighting: Management and Techniques, Overton Frank, Inkata 10. Water Supply Engineering: Environmental Engineering – I, Arun Kumar Jain, Ashok Kumar Jain, B. C. Punmia, Laxmi Publications

Subject Code: **MURP 106**

Subject Name: **Habitat &Environment**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours

Approvals

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Paper Setting

Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five

**Objective:**

The purpose of this course is to make students aware of various aspects of housing scenario and Environmental issues.

**Content:**

**Habitat:**

**Module 1**

Housing Design- determinants of housing form, housing need, demand and supply, dilapidation, structural conditions, materials of constructions, housing age, occupancy rate, crowding, housing shortage, income and affordability, housing layouts, housing density, community facilities, public and private sector housing development, Various housing typologies viz. traditional houses, plotted development, group housing, multi-storied housing, villas, chawls, etc., slums and squatters, night shelters, public health issues related to housing, theories of housing, housing norms and standards.

Housing Policy- five year plans, national housing policy- review, policy framework for urban and rural housing, affordable housing policy. Contribution of housing to micro and macro economy, contribution to national wealth and GDP, housing taxation, national budgets, fiscal concessions, forward and backward linkages.

**Module 2**

Understanding housing as an important land use component of city plan / master plan, considerations for carrying out city level housing studies, projections, land use provisions, Suitability of land for housing, identification, projecting housing requirements, calculating housing shortages, housing allocation, migration leading to formation of slums and squatters, squatter formations by illegal occupation, growth of informal sector, development of informal sector, role of informal sector in housing stock, economy, commercial activities, etc., implications in planning, environmental degradation.

Neighborhood Design-elements of neighborhood structure, Planning and design criteria for neighborhoods, norms and criteria for area distribution, housing and area planning standards, Case studies of neighborhood planning, net residential density and gross residential density, development controls and building byelaws, UDPFI guidelines, NBC provisions. Rental Housing in India- overview, current practices and future initiatives.

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## Environment

### Module 3

Ecological Concept- fundamentals of ecosystem, structure and function, environmental degradation, pollution, resource depletion, population growth, urbanization. Environmental Policies and Initiatives- UN / International Conferences/ Conventions / National issues).

### Module 4

Planning for Environmentally Sensitive Zones, Methods of data collection, analysis. Database for incorporation of environmental concerns in planning analysis. Techniques of resource protection and conservation (land suitability analysis, carrying capacity, and vulnerability analysis) Methods of addressing environmental quality, Introduction to environmental impact assessment environmental management plans, sustainable development.

### Suggested Readings:

#### Housing

1. Housing : Changing Needs and New Directions, V. Gandotra, M. Shukul, N. Jaju and N. Jaiswal, Authors press
2. Housing and Urbanisation- A study of India, Cedric Pugh, Sage Publications, New Delhi
3. Housing Laws in India- Problems and Remedies, P.K.Sarkar , Eastern Law House Private Ltd.
4. National Housing Policy, GOI, New delhi
5. Reading Material on Housing, K. Thomas Poulouse, ITPI, India
6. Urban Development and Housing in India- 1947 to 2007, Rishi Muni Dwivedi, New Century Publications
7. Housing Policies and Related Acts and Schemes of Government of India
8. Plotting, Squatting, Public Purpose and Politics, Land Market Development, Low Income Housing and Public Intervention in India, Baken, Robert Jan, King's SOAS Studies in Development Geography
9. Shadow Cities: A Billion Squatters, a New Urban World, Neuwirth, Robert Taylor & Francis Group

#### Environment:

1. Fundamentals of Ecology, Odum, E.P., Barrett, G.W., Brewer, R., Thomson Brooks,
2. Ecology, Impact Assessment and Environmental Planning, Westman W., John Wiley and Sons
3. AITP Reader on Ecology & Resource Development, AITP
4. AITP Reading Material on Environmental Planning and Design, Prof A. K. Maitra , SPA Delhi

#### Approvals

BOS : 21/01/2021, 31/03/2021

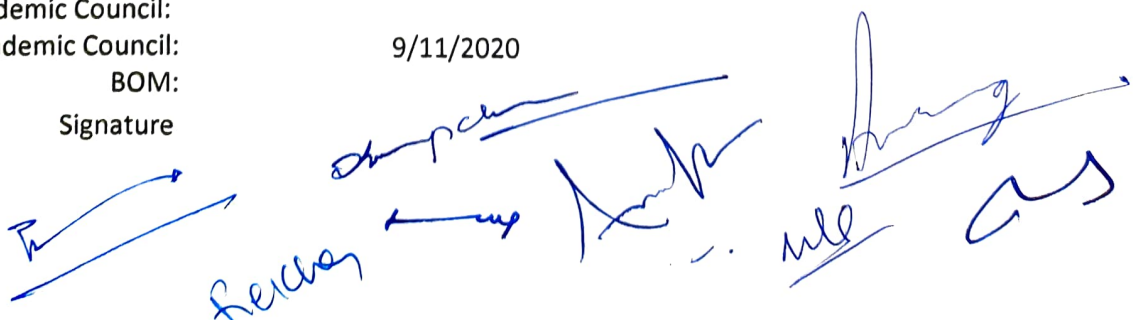
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5. Ecology and Equity - The Use and Abuse of Nature in Contemporary India, Gadgil, M. and Guha, R., Penguin
6. Environment and Development : The Place of Human Ecology in South Asian Studies Programme, Rambo, T.
7. Environment Crisis and Sustainable Development, Bahuguna, S., Natraj, Dehradun,
8. Environmental Issues and Researches in India, Agarwal, S.K. and Garg, R.K (eds), Himanshu Publications
9. Environmental Law and Policy in India - Cases Materials and Statutes, Divan, S. and Rosencranz A., Oxford
10. Our Common Future: The World Commission on Environment and Development, Oxford University Press, Oxford, New York

Approvals

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Subject Code: **MURP 107**

Subject Name: **Statistics and Data Analytics-1**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	3	50	50	100	2	Viva
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The intent of this course is to make students aware of techniques used in different stages of planning process.

**Module 1 :** Statistics quantitative methods. Mean, Median, Mode, Delphi, AHP Entropy, Relative Importance Index, Sampling techniques, Likert Scale. General concepts - statistical interference, population and samples variables, Sampling, simple statistical models, population projections, assumptions, methods, techniques, measures of central tendency, measures of dispersion, measures of shape of distribution, correlation and regression.

### Module 2

Basic Terminology, classification of cities, city region, spheres of influence, urban rural fringe, data Base for Physical surveys (including land use / building use / density / building age, etc.) and Socio-economic surveys; Survey techniques, etc.

Land use classification/ coding, techniques of conducting surveys for land use, building use, density, structural condition of buildings, heights of building, land utilization and physical features of land; expected outputs. Techniques of preparing base maps , scales, content of base map according to scale, components and detailing for various levels of plans.

### Module 3 :

Methods of population forecasts and projections. Lorenz Curve, Gini Ratio, Theil's index, ratios: urban –rural, urban concentration, metropolitan concentration.

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## Module 4

Overview: Principles and Applications of Remote Sensing (RS); Geographic Information Systems (GIS) and Photogrammetry; Organisational Aspects for Planning; Systems, Nature, Hierarchy, Value and Type of Required Spatial Data; Raster and Vector Data Structures; Spatial Data Models; Geo-Database; Analysing Tools and Software; Global Navigation Satellite Systems; Electromagnetic Spectrum, Band Combination, Reflectance; Image Interpretation and Analysis.

Information Systems - Information Needs, Scales and Levels; Pre-Conditions for Using Planning Information Systems; Representing, Modelling and Impact Analysis of the Data; Structure Models; Query Measurement and Transformations; Summary Statistics and Inference; Terrain Modelling

### Suggested Readings:

1. Statistics for Management, Richard I. Levin et al, Pearson
2. Econometrics Damodar Gujarati Tata Mc Graw Hill
3. Quantitative Methods: Theory and Applications, J.K. Sharma, Macmillan
4. Quantitative Methods for Business, Management and Finance, Swiff, Palgrave
5. Statistics, Larry J. Stephens, Tata McGraw Hill
6. Quantitative Techniques in Geography – An Introduction, Robert Hammond et al, Oxford University Press
7. UDPFI Guidelines Volume 1, Ministry of Urban Affairs and Employment Govt. of India, New Delhi
8. Remote Sensing and Image Interpretation, Thomas M. Lillesand et al, John Wiley and Sons Ltd.
9. Remote Sensing and GIS, Basuddeb Bhatta, Oxford University Press
10. Spatial Analysis, Mark R. T. Dale, Marie-Josée Fortin, Cambridge University Press

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## SEMESTER 2

Subject Code: **MURP 201**

Subject Name: **Planning Studio 2 (Urban Planning)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	12	50	50	100	12	Viva
Paper Setting						
Total Eight Questions:						

### Objective:

The studio would be focused on Urban planning in which Preparation of Strategic Urban Infrastructure Plan for a case city along with Prefeasibility studies of various sectors / infrastructure projects/schemes of the Plan(DPR)

### Content:

Expected outcome in the form of report and presentation sheets.

Case study, literature review of planning concepts and norms for the selected area/special area.

Selection of site and collection data (field trip of 2 weeks duration)

Data analysis and presentation

Outline framework of development

Implementation framework

Governance and management aspects.

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Subject Code: **MURP 202**

Subject Name: **Project Planning and Management**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The objective of the course is to equip the students in handling a project from its conception to evaluation.

### Content:

#### Module 3

Definition of Project , Project Management – Definition and its importance; Stages of Project Life Cycle; Causes of Project Delay; Role of Project Manager; Attributes of a Successful Project Management.

#### Module 2

Introduction to Project Appraisal - Types of Feasibility, Financial and Economic Appraisals, Project Financial Appraisal Techniques– Payback Period, Benefit Cost Ratio, Net Present Value, Internal Rate of Return, Market Analysis - survey methods, market characterization, demand forecasting; supporting infrastructure requirements, capital budgeting, estimation of casting of components; social cost benefit analysis.

#### Module 3

Introduction to Project Planning- Process of project planning and Investment Phase; Project Work (Work Breakdown Structure), Manpower and Organisation, Project Finance, Information System; Process of Project Formulation and constraints; Breakeven Analysis; Sensitivity Analysis; Project Budgeting;.

Project Scheduling - definition and steps; Network techniques and activity on Arc/Node, Forward Pass and Backward Pass, Critical Path and Slack, PERT, concept of Gantt Chart

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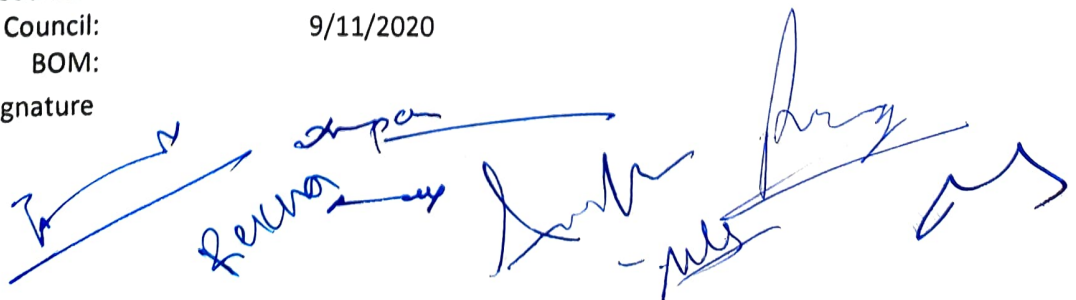
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#### Module 4

Project financing need assessment; sources of funds; disposition of funds, planning for project Financing Project Monitoring definition and criteria for decision making; Parameters and Tools of Control; Use of Network Analysis in Project Monitoring; Reporting and Corrective Actions; Resource Organising and managing and Project Reporting.

Type of Project Evaluation and tools used, time frame and results; Project Cash Flows; Principles of Cash Flow Estimation; Project Benefits; Financial Closure.

#### Suggested Readings:

1. Construction Project Management : Planning, Scheduling and Controlling, K.K. Chitkara, Tata McGraw Hill
2. Project Management, Clifford F Gray et all, Tata McGraw Hill
3. Construction Project Management, Kumar NeerajJha, Pearson Education
4. Project Management – FAQ, G.P. Sudhakar, Gollgatia Publication
5. Project Management, Vinod M. Patel, Oxford Book Company
6. Essentials of Project Management, Ramakrishna Kamaraja, Phi Learning
7. Project Management, R.C. Sinha, Alpha Publications
8. Project Planning, Scheduling and Control, James P Lewis, Tata Mcgraw-Hill Publishing Co. Ltd.
9. Projects: Planning, Analysis, Selection and Review, Prasanna Chandra, Tata McGraw Hill

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Subject Code: **MURP 203**

Subject Name: **Disaster Mitigation and Management**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Course Objective:

The course intent to make students aware of various types of natural and man-made Disasters and make them familiar with techniques of Disaster mitigation and management

### Content:

#### Module 1

Disasters- Definitions, types and examples of disasters across the World; Natural disasters and manmade disasters, Degree of Damage, Frequency of Occurrences and Other Historical Facts; Classification of Disasters in India- flood, earthquake, fire, tsunami etc; Impacts of disasters, building bye laws and disaster safe construction practices for different types of disasters; Urban Risks- Definitions, Types and nature, Magnitude; Hazard, vulnerability and risks , Climate Change and its implication.

#### Module 2

Identification of Disaster prone areas-Disaster Vulnerability Mapping Forecasting and early warning systems for various types of disasters; Methods and approaches to urban risk assessment, Risk Mitigation and Risk Transfer

#### Module 3

Disaster Preparedness, Response and Post Disaster Recovery and Rehabilitation Measures; Prevention and preparedness activities, response and recovery activities, disaster declaration arrangements, Communication and Information Technology in Disaster Management.

#### Module 4

Kyoto Framework of Disaster Mitigation and Management; Disaster Management Policies and Act – National and States, Select Global Practices. Disaster Coordination Centres – functions, logistics, operations and planning; Developing and Assessing Disaster Management Plans,

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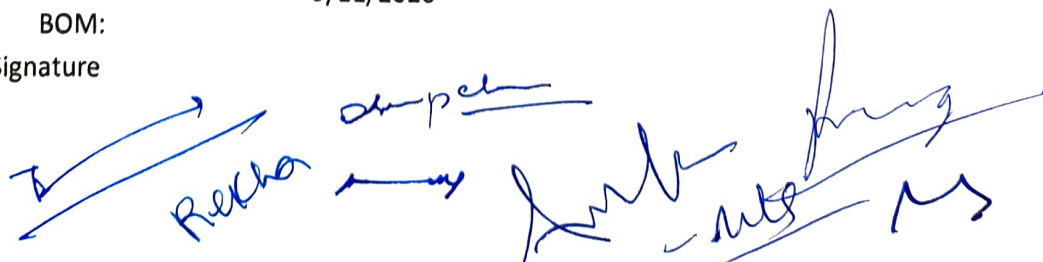
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Community engagement, Standard Emergency Warning Signal (SEWS), and the Emergency Alert System.

**Suggested Readings:**

1. Disaster Management Handbook, Pinkowski J., CRC Press
2. Disaster Recovery, Brenda D. Phillips, CRC Press
3. Environmental Hazards : Assessing Risk and Reducing Disaster, Smith, K., David P., London, Routledge Publications
4. Handbook of Disaster Research, Rodriguez, H., ed., Quarantelli, E., ed., Dynes, R.R., ed., New York, Springer Science
5. Earthquake Architecture: New Construction Techniques for Earthquake Disaster Prevention, Garcia, Belen, New York, Loft Publications

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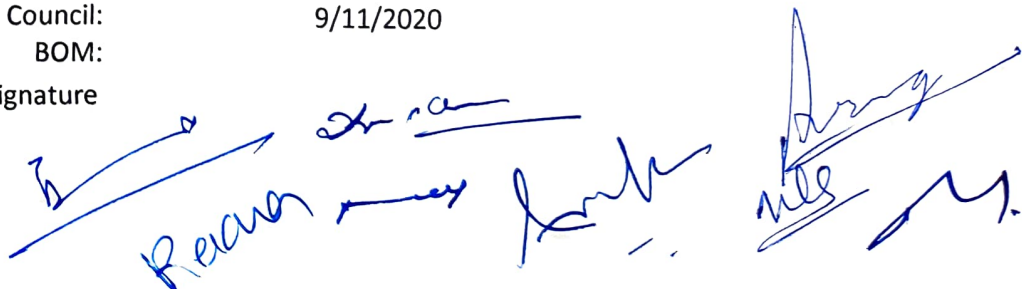
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Subject Code: **MURP 204**

Subject Name: **Land Economics and Real Estate**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective

The course intends to make the students understand the concept of land markets and how the development of cities is directed with real estate developers.

### Content

#### Module 1

Economic concepts of land, demand forecasting for land use, land valuation; economics to identify land use; factors affecting land supply and demand; land development method, environmental considerations.

#### Module 2

Economic Aspects of Land Policies at Various Levels of Decision Making, Private land assembly, co-operatives in land development, land pooling and plot reconstitution, , Transfer of development rights, land sharing and land lease, Joint Venture and FDI in land development.

#### Module 3

Land valuation techniques- Comparison Method, Residual Method, Discounted Cash Flow Method; land pricing, subsidies, auctions; type of development: plotted, flatted system, and their effect on land pricing;

#### Module 4

Definition of Real Estate - Physical, Financial and Social Perspectives Concepts of Real Estate Analysis - Mapping Supply to Understand Markets; Demand Factors Affecting Real Estate Development, Demand-Supply Gap Analysis; Emerging Areas of Real Estate Development:

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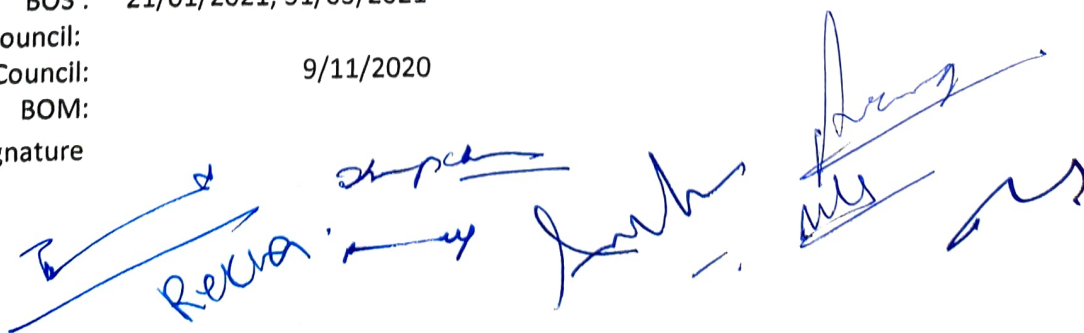
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Diversification to Logistic Hubs, Industrial Parks, Hospitality Sector, Health and Education Sector by Private Players; Introduction to Financial Models.

Transaction and Renting of Real Estate: Lease Deeds/ Sale Deeds, Sale Documents, Registration; Mortgage and Pledging.

### Suggested Readings:

1. Urban Economics and Real Estate Markets, Denise DiPasquale and William C. Wheaton, Prentice hall.
2. Urban Economics, Arthur O'Sullivan, McGraw-Hill
3. Urban Land Market and Land Price Change: A Study in the Third World Context, Amitabh Kundu, Ashgate Publishing Company.
4. Economics, Real Estate and the Supply of Land, Alan Evans, Wiley and Blackwell
5. Analyzing Land Readjustment: Economics, Law and Collective Action, Hong, Yu-Hung and Barrie Needham, Lincoln Institute of Land Policy
6. Urban Land Economics and Public Policy, Paul N. Balchin, Gregory H. Bull and Jeffrey L. Kieve, Palgrave MacMillan
7. Real Estate Finance: Theory & Practice, Terrence M. Clauretie and G. Stacy Sirmans, Cengage Learning
8. Urban Land Policy and Public-Private Partnership for Real Estate and Infrastructure Projects, A. K. Jain, Read worthy

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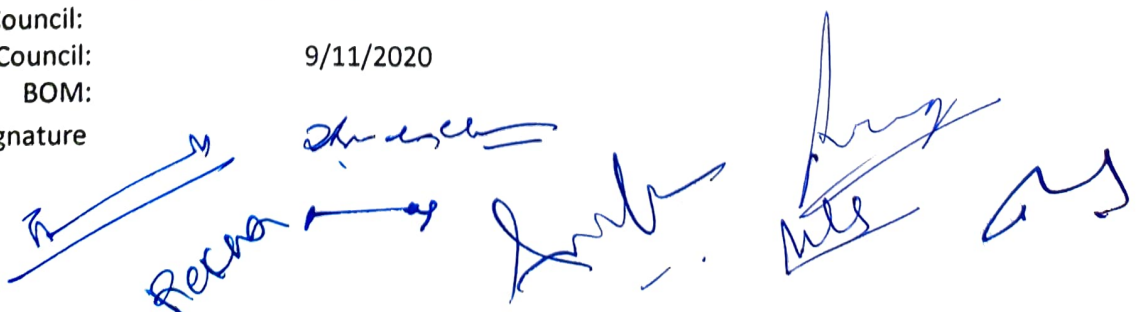
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Subject Code: **MURP 205**

Subject Name: **(ELECTIVE -1) Public Private Partnership (PPP)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

**Objective:** The intent of the subject is to make students understand the aspects, implementation, benefits, constraints of PPP financing model.

**Content:**

**Module 1**

Concepts and Need for PPP: Urban Sector - Existing Attributes and Changing Scenario; Problems Associated with Urban Sector Development; PPP – Definition, Need and Stages; PPP and Privatization; Evolution of PPP in India.

Trends and Challenges: Challenges of Developing PPP Projects in Urban Sector; Recent Trends of Increasing Private Participation; Possible Partners and their Possible Roles

**Module 2**

Forms of Partnerships: Forms of PPP: Service Contract, Management Contract, Lease, Divestiture and Concession; Different Options under Concession – BOO, BOOS, BOT, BOLT etc.; Joint Venture and Community Led Informal Partnership Approaches; Relative Merits and Demerits of Different Forms of PPP; Funding Structures under PPP

**Module 3**

Partnerships, Alliances and Urban Development: Preconditions for Partnerships; Advantages of Collaboration; Making Groups and Partnerships Effective; Methods of Promoting Participation; Using Partnerships for Improving Urban Development in Small and Medium Size Cities; Meeting the Needs of the Urban Poor through Public-Private Partnerships

**Module 4**

Mechanisms of PPPs: Mechanisms in Partnerships: Regulations and Administrative Procedures; Role of Government as Partner, Regulator and Enforcer; Principles of PPP – Contractual Framework, Selection of Service Provider, Payment Mechanism, Monitoring and Evaluation, Risk and Revenue Sharing; Regulatory Authority for PPP; Model Contract Agreement

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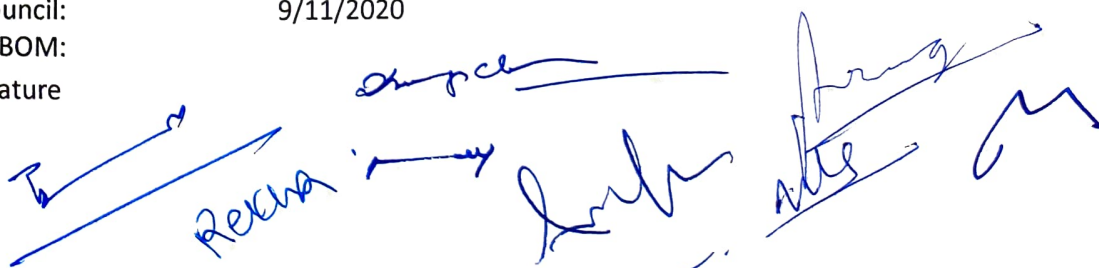
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Case Studies: Selected Case Studies in PPP - Highway, MRTS, Real Estate, Urban Infrastructure, Water Supply, Solid Waste Management, Slum Redevelopment, Etc.

**Suggested Readings:**

1. PPP in Infrastructure, R N Joshi, Vision Booth
2. Urban Models and Public Private Partnerships, Remo Dalla Longa, Springer
3. Public-Private Partnership Projects in Infrastructure, Jeffrey Delmon, Cambridge University
4. Public Private Partnership, G Ramesh et all, Routledge
5. Urban Level Policy and PPP for Real Estate & Infrastructure, A K Jain, Readworthy
6. Strategic Issues in Public-Private Partnerships, Anneloes Blanken, John Wiley & Sons
7. Affordable Housing and Public-Private Partnerships, Nestor M. Davidson, Ashgate Publications
8. PPP for Urban Waste Utilities: A Review of Experiences in Developing Countries, Philippe Marin, World Bank

**Subject Code: MURP 205**

**Subject Name: (ELECTIVE -2) Inclusive Urban Planning**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

**Objective:** To understand the criteria and need of Urban Planning and know the importance of Urban Planning in the Indian context

**Content**

**Module 1**

Understanding Inclusive Planning: Definitions and components

**Module 2**

Stakeholders Profile and Needs, Access to Shelter, Services and Livelihoods: Urban Poor, Informal Sector, Gender, Children, Elderly, Disabled, Displaced people, etc.; Slums - dimensions, causative factors, determinants, location characteristics of settlements; Informal

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sector - growth, characteristics, functions, economic contributions, linkages with formal sector, impact on Urban Development

## Module 3

Participatory Planning Process and Policies, Programmes and Legislation: Methods, role of stakeholders (including civil society organizations), etc.; Related Acts, Five year plans, policies and programmes at various levels.

## Module 4

Planning interventions and Best Practices: Inclusive zoning, development and building regulations, Slum Improvement, Case studies

### Suggested Readings:

1. Greed, C., 2003. *Inclusive urban design*. Routledge.
2. Watson, V., 2011. Inclusive urban planning for the working poor: Planning education trends and potential shifts. *Women in informal employment: Globalizing and organizing (WIEGO) urban policies research report*, (11).
3. Whitzman, C., Legacy, C. and Andrew, C. eds., 2013. *Building inclusive cities: Women's safety and the right to the city*. Routledge.
4. Burton, E., Mitchell, L. and Lynne Mitchell, M.E.S., 2006. *Inclusive urban design: Streets for life*. Elsevier.
5. Burayidi, M.A. ed., 2000. *Urban planning in a multicultural society*. Greenwood Publishing Group.
6. Barton, H. and Tsourou, C., 2013. *Healthy urban planning*. Routledge.
7. Kim, T.J., Wiggins, L.L. and Wright, J.R. eds., 2012. *Expert systems: Applications to urban planning*. Springer Science & Business Media.
8. Adams, D., 1994. *Urban planning and the development process*. Psychology Press.
9. Ng, E. and Ren, C. eds., 2015. *The urban climatic map: a methodology for sustainable urban planning*. Routledge.
10. Adams, D. and Tiesdell, S., 2012. *Shaping places: urban planning, design and development*. Routledge.
11. Ahluwalia, I.J., Kanbur, R. and Mohanty, P.K. eds., 2014. *Urbanisation in India: Challenges, opportunities and the way forward*. SAGE Publications India.

## Approvals

BOS: 21/01/2021, 31/03/2021

**Sub Academic Council:**

Academic Council: 9/11/2020

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Subject Code: **MURP 205**

Subject Name: (ELECTIVE -3) **Urban Mobility**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

**Objective:** The main objective of the elective is to teach students the various process and practices that help to address transportation and mobility problems of cities.

### Content

#### Module 1

Introduction to Urban Access and Mobility: Urban development and transportation history, Adoption of sustainability principles in urban transport planning, Technology Forces of Transportation Innovation, Transportation Technology and the Geography of the Modern Metropolis, Urban Form and Transport: urban form and transport influence access to opportunities and amenities of a city, land use and transport interactions nurture spatial economy, inclusiveness and environment of cities

#### Module 2

Factors Affecting Travel Behavior and Pattern: factors influence travel behavior, demand and patterns in a city, process used to prepare an urban transport project and related policies, role transport access plays in planning and design of local areas (e.g., TODs), impacts of transport investments and urban redevelopment projects

#### Module 3

Modal Characteristics and Alternatives Analysis-Low Carbon Mobility & Emerging Technologies: cities promoting low carbon travel behavior, emerging mobility options including new transport technologies, operational practices and policies, operational characteristics and costs of various public transport, para-transit and non-motorized modes (e.g., NMT, bike, walkways)

#### Module 4

Legislation and Best Practices- General regulations; Regulations on Vehicles, drivers and flow; Other regulations and control, Relevant IRC and IS Codes of Practices, best practices case studies addressing sustainability, transportation infrastructure, auto regulation, travel demand prediction and management, airport noise and air pollution, environmental justice, environmental regulation, and greenhouse gas reduction strategies will be used to explore transport and environmental problems.

#### Approvals

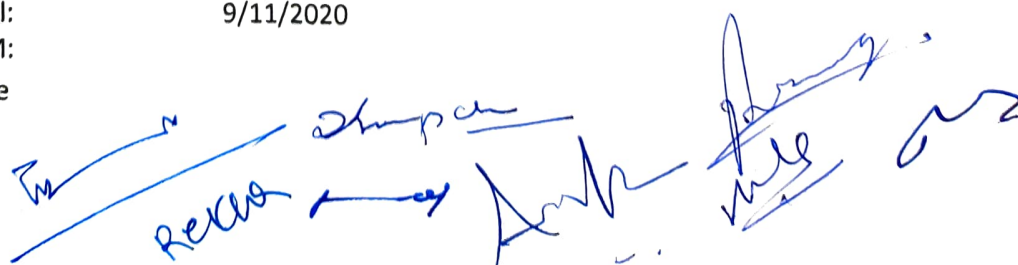
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**Suggested Readings:**

1. Coxon, S., Napper, R. and Richardson, M., 2018. *Urban Mobility Design*. Elsevier.
2. Mitchell, W.J., Borroni-Bird, C.E. and Burns, L.D., 2010. *Reinventing the automobile: Personal urban mobility for the 21st century*. MIT press.
3. Agarwal, O.P., Zimmerman, S. and Kumar, A., 2018. *Emerging Paradigms in Urban Mobility: Planning, Financing and Management*. Elsevier.
4. Low, N. ed., 2013. *Transforming urban transport: The ethics, politics and practices of sustainable mobility*. Routledge.
5. Macário, R., 2011. *Managing urban mobility systems*. Emerald Group Publishing.
6. Lah, O. ed., 2018. *Sustainable Urban Mobility Pathways: Policies, Institutions, and Coalitions for Low Carbon Transportation in Emerging Countries*. Elsevier.
7. Verma, A., Velmurugan, S., Singh, S., Gurtoo, A., Ramanayya, T.V. and Dixit, M., 2015. Urban mobility trends in Indian cities and its implications. In *Developing Country Perspectives on Public Service Delivery* (pp. 95-116). Springer, New Delhi.
8. Behrisch, M., Krajzewicz, D. and Weber, M. eds., 2014. *Simulation of Urban Mobility: First International Conference, SUMO 2013, Berlin, Germany, May 15-17, 2013. Revised Selected Papers* (Vol. 8594). Springer.

Approvals

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Subject Code: **MURP 206**

Subject Name: **Sustainable Planning Practices and Developments**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The intent of this course is to impart the concept of sustainable development among the students and to make them aware of different planning and management practices followed worldwide to minimize the impact on environment due to human actions.

### Content:

#### Module 1

Sustainable Development- Definitions, Concepts and Parameters; Eco-City Approach; Kyoto Protocol, Localizing Agenda 21 (UN-Habitat) United Nations Framework Convention on Climate Change; Indian Network of Climate Change Assessment, Intergovernmental Panel on Climate Change (IPCC), Global Environment Facility, and Clean Development Mechanism; UNHABITAT policies, Sustainable Development Goals.

#### Module 2

Land Capability and Suitability Analysis for planning process, Concept of sustainable planning, Three pillars of sustainability and its implication in planning process; Environmental preservation, Walkability and Connectivity, Integration of diverse community features; Strong sense of place.

Concepts and definitions of Climate Change; Urban Heat Islands, green house gases, carbon cycle, Climatic Change and Human History, Impacts of Climate Change; Climate as Forcing Variable, Locational Attributes, Sensitivity and Vulnerability of Different Sectors; Extreme events and their effects

#### Approvals

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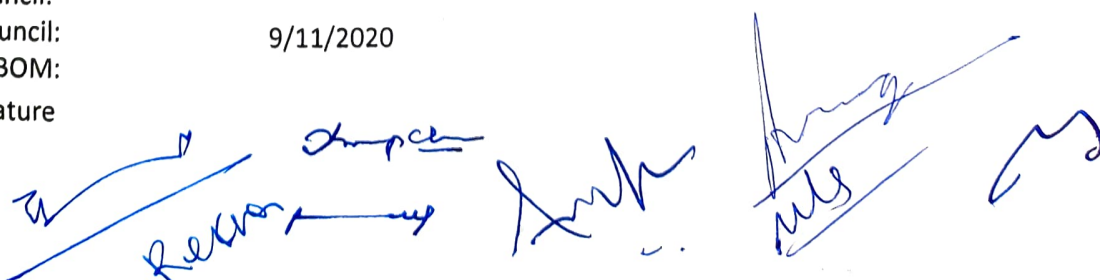
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### Module 3

Application of Ecological Principles in Sustainability; Carrying Capacity Based Planning-Concept, Parameters and Indicator Measures; Models and Case Studies in Urban and Regional Development

Urban Environmental Management and Planning; Human activities and energy in Cities; Contribution to GHGs; Environmental Impact Assessment, concept of 3-Rs: "Recycle-Reuse and Recovery", Low carbon transport modes and mobility options.

### Module 4

Compact City Concept; Use of renewable Energy Sources; disruption in urban water cycle, Urban Water Treatment, Recycling and Harvesting; Pollution Control Measures for Industrial Wastes, Hazardous Wastes, Biomedical Wastes, Domestic Waste Water, Air Pollutants and Noise.

### Suggested Readings:

1. Green Cities, Growing Cities, Just Cities? Scott Campbell, Urban Planning and the Contradictions of Sustainable Development, Journal of The American Planning Association
2. Cities and Climate Change, OECD Publishing OECD (2010)
3. The Economics of Low Carbon Cities: A Mini-Stern Review for the Leeds City Region, Andy Gouldson et al., The Centre for Low Carbon Futures Partnership, University of Hull, University Of Leeds
4. AITP Reader on Ecology & Resource Development, AITP
5. AITP Reading Material on Environmental Planning and Design, Prof A. K. Maitra , SPA Delhi
6. CPCB Guidelines for Bio-Technologies for Treatment of Wastes and Cleaner Technologies - Issue and Options
7. Environmental Management, Kulkarni V. and Ramachandra T. V., TERI Press, New Delhi
8. Exploring Possibilities of Achieving Sustainability in Solid Waste Management, Ramachandra T.V. and Saira Varghese K., Indian Journal of Environmental Health, 45 (4):255-264, 2003
9. Introduction to Environmental Management, Mary K. Theodore and Louis Theodore
10. Population Growth and Environmental Degradation in India, Dr. D.A. Nagdeve
11. Global Green Standards: ISO 14000 and Sustainable Development, International Institute for Sustainable Development

### Approvals

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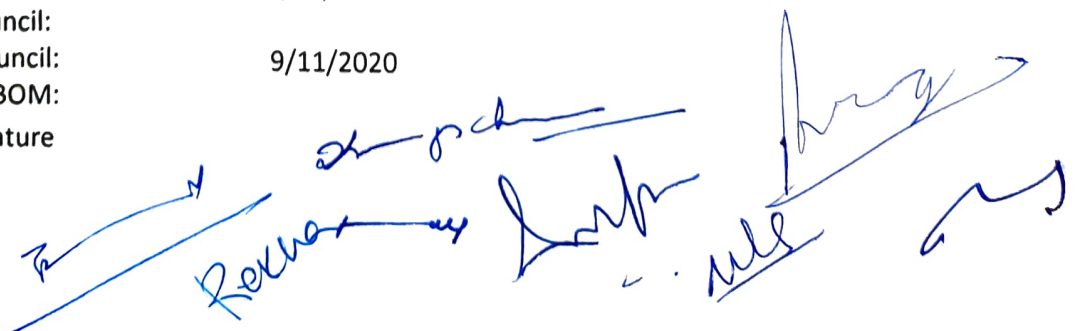
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Subject Code: **MURP 207**

Subject Name: **Statistics and Data Analytics-2**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	3	50	50	100	3	viva
Paper Setting						

### Objective:

The course intent to make students aware of demographic concepts and the statistical methods involved in planning process.

### Module 1 :

Regions, Classification of regions, delineation techniques of various types of regions, Analysis of structure of nodes, hierarchy, nesting and rank size. Scalogram, Sociogram, etc.; planning balance sheet. Threshold analysis; Input Output analysis, SWOT analysis.

Planning standards, performance standards and benchmarks, and variable standards. UDPFI guidelines, zoning regulations and development controls, plan implementation techniques and public participation.

### Module 2

Sources of demographic data in India, Settlement type, Factors Affecting Population Distribution and Density, settlement analysis (urban and rural), Concentration: spatial, vertical and size; Rural Settlements – Size, occurrence and character, peri-urban sprawl, economic base, transformation.

Population structure and composition – Age, sex, gender, marital status, caste, religion, literacy level etc.; Age - sex ratio, structure, pyramid, working force and its determinants; dependency ratio, occupational structure, fertility, mortality, natural growth of population, migration, types of migration, determinants of migration, migration models.

### Module 3

Data Creation and Checking - Base Maps and Thematic Maps; Mapping and Spatial Analysis; Linking of Attribute Data, Spatial Data Aggregation; Spatial Information, Database Creation; Geo-Coding and Data Accuracy, Topology Creation

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Topography and Landforms; Digital Change Detection; Suitability Analysis; Landuse / Landcover Analysis; Use of GIS Data Focusing on Urban and Regional Planning

#### Module 4

Laboratory Exercises – in Selected Packages of Image Processing and GIS; Dynamic GIS; Integration of GIS and Digital Image Processing; Integration of GIS and GPS; Web Enabled GIS Applications.

#### Suggested Readings:

1. Urbanisation and Urban Systems in India, Ramchandran R. Oxford University Press
2. Cities Urbanisation and Urban Systems, Siddhartha K. and Mukherjee S., Kishalay Publications
3. Regional Planning, Glasston J., Open University Press
4. Economic and Social Geography Made Simple, Knowles R. and Wareing J., Rupa and Company
5. Concepts and Techniques of Geographic Information Systems, Lo C.P. and Yeung A.K.W., PHI Learning Private Limited
6. Planning Techniques for AITP, Reader on Institute of Town Planners India
7. UDPFI Guidelines Volume 1, Ministry of Urban Affairs and Employment Govt. of India, New Delhi
8. 2. Applied Remote Sensing in Urban Planning, Governance and Sustainability, Netband, Springer, India
9. 3. Environmental Modelling with GIS and Remote Sensing, Andrew Skidmore et al, CRC Press
10. 4. Geographic Information Systems and Science, PA Longley et al, John Wiley and Sons Ltd.
11. 5. GIS, Spatial Analysis, and Modelling, David J Maguire et al, ESRI Press
12. 6. Landuse Change Detection using GIS, Remote Sensing and Spatial Matrices, Mesfin T Bekalo et al, Lap Lambert Academic Publications
13. 7. Lans Sustainability Evaluation using GIS and Remote Sensing Technology, MezeniaMengist, VdmVerlag
14. 8. Remote Sensing and GIS Integration: Theories, Methods and Applications, Qihao Weng, McGraw Hill Professional

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**SEMESTER-3**

Subject Code: **MURP 301**

Subject Name: **Planning Studio-3 (Regional Planning)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	12	50	50	100	12	Viva
Paper Setting						

**Objective:**

The studio would be focused on regional planning and would include Planning of a region (district/mega/metro Region).

**Contents:**

Expected outcome in the form of report and presentation sheets.

Case study, literature review of planning concepts and norms for the selected area/special area

Selection of site and collection data (field trip of 2 weeks duration)

Data analysis and presentation

Outline framework of development

Implementation framework

Governance and management aspects.

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Subject Code: **MURP 302**

Subject Name: **Regional Planning and Development**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The course intent to make students understand the various concepts and tools of Regional Planning

### Content:

#### Module 1

Concepts of Regions, Defining a region, Type of Regions, Rural Settlement Analysis: Types, activity, environment, cultural and economic interface in rural habitat, technology in rural settlement, Elements of Settlement System: Function, Spacing, Linkage, Settlement Pattern and Factors Responsible.

#### Module 2

Resource Regions; Corridors as regions; National, Sub-National and State as a region; Case Studies from India: NCR and Delhi Mega Region, Mumbai Mega Region, Chennai Metro Region, Kolkata Metro Region, etc; Golden Quadrilateral, Delhi-Mumbai, Industrial Corridor, North-South and East-West Corridor Regions; North Eastern Region, Coastal Regions, Western & Eastern Ghats,. Corridors: Composition of a Region and its planning (Core, Fringe and Periphery). Resources and practices followed for planning regions in India. Impact of Decentralization by 73 and 74 CAA in regional plan preparation and implementation.

#### Module 3

Growth of Mega and Metro Regions: Scale, Complexity and its impact on national and international scenario, convergence and divergence. Regional Economy, competitiveness among regions, backward and leading regions in development. Regional Interdependence Analysis (through Input-Output model), Regional Inequalities – Growth, Density, Population Distribution,

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Spatial Patterns and Characteristics of Occupational Types; Special Regions: Ecological regions, SEZ, Agro Regions, etc.; Regional Disparity Analysis (through factor analysis);.

#### Module 4

New perspectives and methods, for emerging future regions, Migration pattern leading to rapid economic changes and new thrusts for economic growth, Concept of Globalisation, Ecological Footprint, Sustainability, Climate Change.

#### Suggested Readings:

1. Regional Planning – Concepts, Techniques, Policies and Case Studies, Misra, R.P., New Delhi
2. Regional Development Planning in India, R.P. Mishra, Vikas, Delhi.
3. Regional Planning and Development, Qaiyum, A., ITPI, New Delhi
4. Regional Planning and Development, Rangasamy, S., Madurai
5. An Introduction to Regional Planning – Concept, Theory and Practice, Glasson, John: Susesex
6. GoI: Ministry of Rural Development, Department of Land Resource, Desert Development Programme, New Delhi
7. GoI: Planning Commission, Report on Development of Drought Prone Areas by National Committee on the Development of Backward Areas, New Delhi
8. GoI: IWMP, Ministry of Rural Development, New Delhi GoI: Ministry of Development of North Eastern Region, New Delhi
9. The Role of Intermediate Towns in Regional Development : A Case Study, National Institute of Urban Affairs (NIUA), NIUA, New Delhi
10. Planning Development for Metropolitan Region, K KPandey, IIPA
11. Rural Development, Jain S.C.
12. Rural Development through Decentralization, Kumar B Das.
13. District Planning: A Handbook, R.P. Mishra. Concept Publishing House, New Delhi

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Subject Code: **MURP 303**

Subject Name: **Planning Legislation**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The course intent is to make students aware of various Urban and Regional planning legislations in India

### Contents:

#### Module 1

Aims and Objectives of Planning Legislation; Constitutional Provisions Relating to Land Development and Use, History of Planning Legislation in India; Laws and Acts for Urban Planning & Development (Town and Country Planning Act, Improvement Trust and Development Authorities Act Etc.)

#### Module 2

Impact of Delineation of powers by 73rd and 74th Constitution Amendment Acts and other relevant acts e.g. Municipal Act, Gram Panchayat. Preparation and Implementation of Regional Plans, Development Plans, Town Planning Schemes, Etc.

#### Module 3

Land Acquisition Act and Land Ownership Including Rural and Urban Land Ceiling Acts and Their Implications on Development, Conservation and Management of Ancient Monuments and Archaeological Sites and Ruins Act.

#### Module 4

Conservation of Natural Resources and Heritage Building Act, Mining and Forestry Acts, Water Bodies Conservation Act; Environment Protection Act, Development Control Regulations-

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Zoning, Sub-Division Regulations, Building Regulations and Bye Laws; Apartment Ownership Act.

**Suggested Readings:**

1. Town and Country Planning Act (any State Act)
2. Model Municipal Act, Ministry of Urban Development, Government of India
3. Nagar Raj Act (any State Act )
4. Environment Protection Act (Central Act)
5. Mining and Forestry Act (Central Act)
6. Building Byelaws (any State Act )
7. Apartment Ownership Act (any State Act )
8. Development Authority Act (any State Act )
9. Water Bodies Conservation Act (any State Act )
10. Land Acquisition Act.

**Approvals**

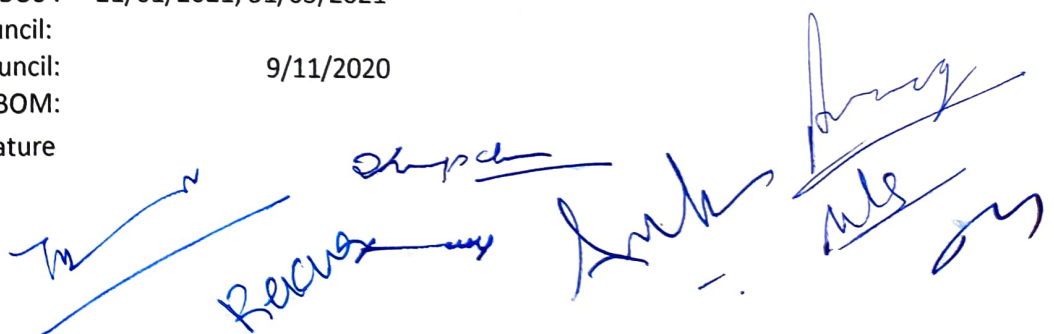
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Subject Code: **MURP 304**

Subject Name: **Local Governance, Management and Finance**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The intent of this course is that students know the hierarchy of governance and the methods of organizing funds by local government used for development.

### Content:

#### Module 1

Urban Governance- Definition, concepts and components; hierarchy and structure, form of governance; Institutional and organizational framework for urban management; significance of organizational framework; Difference between institutions and organizations; distribution of responsibilities special purpose vehicles (SPV's) in the urban sector

#### Module 2

Salient Features of 73rd and 74th Constitutional Amendment Act, 1992; Constitution, Powers and Functions of Municipal Governments and PRIs (Village Panchayat and ZilaParishad), City development authorities: organizations, scope of their power and functions, resources, and their working; local governance- type, organization, Scope, power, duties, resource, supervision control; improvement trust- organizations, scope of their powers and functions and their working;; administrative reforms in local governance; Organisational Restructuring of Local Governments.

Stakeholder participation- roles and responsibilities, access to governments; Citizen Participation in urban development and management, Ward/Wards Committee; Inter-organisational relations and coordination at local level; Nagar Raj Act: Constitution, Powers and Functions of Area Sabhas.

#### Module 3

Development Finance- approaches, components, process, credits rating; Role of Development Authorities, Improvement Trusts, SEZs and Special Purpose Vehicles (SPV) in Urban finance Management.

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Central Finance Commission (CFC) and State Finance Commission (SFC)- Constitution, Powers and Functions; Consolidated Fund (Central and State); Centrally Sponsored Schemes; Municipal Finance- Categorisation of Municipal Sources of Revenue, Internal Vs. External Revenue, Capital Vs. Revenue Receipt; Municipal Finance Assessment Framework; Reforms in Municipal Finance- Unit Area Method in Property Tax Calculation.

#### Module 4

PPP Concept, need, conditions for Partnerships; Advantages, Methods of Promoting Participation, Regulations and Administrative Procedures; Principles of PPP- Contractual Framework, Selection of Service Provider, Payment Mechanism, Monitoring and Evaluation, Risk and Revenue Sharing; Role of Government as Partner, Regulator and Enforcer; Regulatory Authority for PPP; Model Contract Agreement.

Finance generation-Monetary Exaction-, Development Tax, Betterment Levy, Impact Fee, External Development Charges and Vacant Land; Land Exactions- TDR, Town Planning Scheme, Monetisation of Underutilised Public Assets; External Finance- Municipal Bond, Pooled Finance, Debt Financing, PPP, Financial Intermediaries.

#### Suggested Readings:

1. Constitution of India, D.D. Basu, S. Chand and Sons, New Delhi
2. Democracy, Development and Decentralisation – Continuing Debates, Taylor and Francis, India
3. India: The Challenges of Urban Governance, O.P. Mathur, National Institute of Public Finance and Policy, New Delhi
4. Local Governance in India – Niraja Gopal et al., Oxford University Press
5. New Forms of Urban Governance in India, Baud I.S.A. et al., Sage
6. People's Participation in Urban Governance, K.C. Sivaramkrishnan, CSS, New Delhi
7. Urban Governance and Management: Indian Initiative, P.S.N. Rao, Kanishka Publishers
8. Public Finance: Policy Issues for India, Sudipto Mundle, Oxford University Press
9. New Issues in Panchayati Raj, D. Bandopadhyay et al., Concept Publishing
10. Fiscal Decentralisation and Governance – A Cross Country Analysis, De Mello, IMF Working Paper (WP.01/171, 2001)
11. Municipal Finance in India – An Assessment, P.K. Mohanty et al., Reserve Bank of India
12. Municipal Finance – A Handbook for Local Government Practitioners, World Bank
13. Costs and Challenges of Local Urban Services: Evidence from Indian Cities – O.P. Mathur et al., Oxford University Press.
14. Fiscal Decentralisation to Local Government in India, M.A. Oommen, Cambridge Scholars Publishers

#### Approvals

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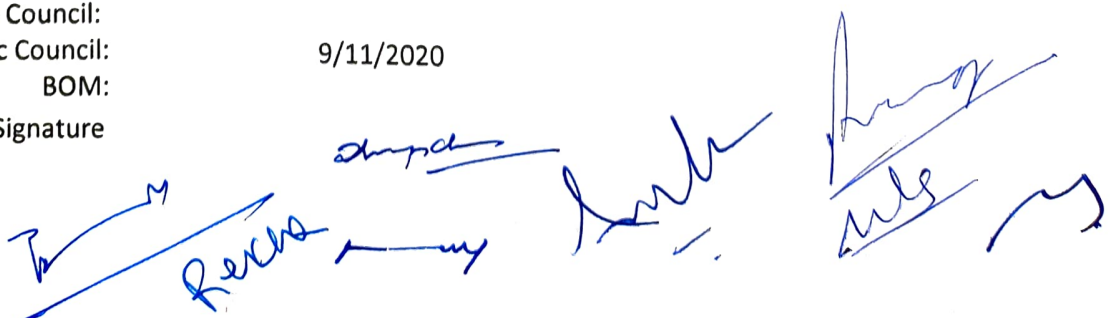
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Subject Code: **MURP 305**

Subject Name: Tourism Planning

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

To make students aware about the principles of planning for tourism and formulation of various strategies in different context e.g hills, religious etc.

### Content :

#### Module 1

Planning for Leisure and Tourism - Key Determinant; Characteristics of Tourism Sectors; Differences Between Leisure and Business Tourism

#### Module 2

Types of Tourism: Cultural Tourism, Eco-Tourism, Heritage Tourism, Adventure Tourism, Religious Tourism, Leisure Destination Tourism; Characteristics of Each and Planning Implications

Social Factors Shaping Leisure; International Tourism Trends; Factors and Impact on National Tourism Markets

#### Module 3

Regional Context of Tourism Locations, Circuit Identification and Destination Planning, Tourism Infrastructure- Definition and Classification; Tourism as a Burden on Local Infrastructure, Tourism and Economy- Impact on Livelihoods and Local Communities

#### Module 4

Tourism Plans- Components, Time Frame, Actors, Cost and Revenue, Etc. National Policies Affecting Tourist Inflow, Role of Multiple Government Authorities and Agencies Involved in Tourism Development; Private Players in Tourism Development

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### Suggested Readings

1. Tourism Planning: Basics, Concepts, Cases, Clare A. Gunn
2. Contemporary Issues in Tourism Development, D.G. Pearce, ed, Routledge
3. Cultural Tourism and Sustainable Development, L.F. Girard ed.
4. Event Tourism: Critical Concept in Tourism
5. Sustainable Tourism Management, John Swarbook
6. Tourism and Poverty Reduction: Pathways to Prosperity, J Mitchell
7. Tourism and the Less Developed World: Issues and Case Studies, David Harrison
8. Tourism Infrastructure Development: Sustainable Approach, Manoj Sharma

### Approvals

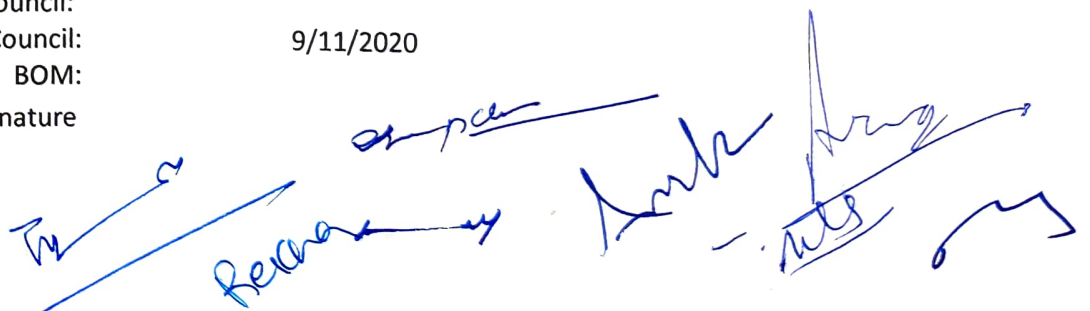
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Subject Code: **MURP 306**

Subject Name: **Elective-1 (City Design and Green Space Planning)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

**Objective:** The course will provide exposure to a broad range concepts and strategies relating to green space planning in cities. The course will focus on the following aspects:

### Content

#### Module 1: History of landscape planning in cities:

Concepts such as garden city, eco-city, sponge city, sprawl vs compact development, landscape urbanism etc.

#### Module 2: Policies and regulations

Formulating a green space policy, hierarchy of open spaces, right of way, policies for water management at the urban level, spaces for leisure and recreation, master plans in India, regional and metropolitan region plans, district level plans, designating ecologically fragile areas.

#### Module 3: City level greens

Greenbelts, greenways, river networks, urban forest networks, hierarchy of green spaces, air corridors and air quality etc.

#### Module 4: Green as infrastructure

Ecosystem services, infrastructure provision of environmental benefits, measuring benefits derived for air, water, pollution control and reduction in carbon levels.

#### Approvals

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### Suggested Books/Readings:

1. Andersson, E., Kronenberg, J., Cvejić, R., Elmqvist, T., & Deliverable, D. (2015). Integrating green infrastructure ecosystem services into real economies, 1–53.
2. Chaudhry, P., Bagra, K., & Singh, B. (2011). Urban Greenery Status of Some Indian Cities : A Short Communication. International Journal of Environmental Science and Development, 2(2), 98–101.
3. Gray, O., Robinette, "Landscape Planning for Energy Conservation", Van Nostrand Reinhold, New York, 1984
4. Ministry of Urban Affairs & Employment (G.O.I.), (1996), 'Urban Development Plans Formulation and Implementation Guidelines', ITPI, New Delhi.

Subject Code: **MURP 306**

Subject Name: **Elective-2 (Urban Design & Heritage)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

The intent of this course is to familiarize a the student with the role and importance of urban design and Heritage in planning process.

### Content:

#### Module 1

Scope and Objectives of Urban Design; Its Relation with Architecture and Urban Planning; Scale of Various Urban Design Projects - Regional and City Level. Elements of urban form; Organization of spaces and their articulation in the form of square, streets, vistas and focal points; Image of the city and its components - edges, paths, landmark, street features, skyline, etc., Elements of urban design.

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Hierarchy and nature, sense of enclosure, isolation and continuity; determinants of urban form; urban massing in built form; landscape elements, open spaces, water bodies.

## Module 2

Social/cultural/ecological/energy Determinants of design; image ability of the city; Structure of urban spaces-Location criteria of activities and urban uses; urban regeneration, renewal, rehabilitation, revitalization, reconstruction and redevelopment- concepts, interventions, processes, approaches and methods, tools. Development Control Guidelines, Zoning --- Restrictive, Indicative, Performance and Incentive Zoning ,Understanding Scale and Issues of Urban Design Interventions and Strategies in Cities

## Module 3

Natural heritage conservation- types, policies for conservation, regulatory measures, community participation; built heritage conservation- determinants of built form on heritage; historical urban infrastructure and traditional water harvesting system.; intangible cultural heritage and development issues; conservation strategies- old city, inner areas; Integration of historic monuments, areas, cores, urban system in the development process and land use; regulatory measures and community involvement.

## Module 4

Basic concepts of conservation values- overview and introduction; Principles for judging the conservation importance of sites, area and related typology; scope and basic technique of urban conservation; national policies and programmes. Legal and administrative aspects, archaeological acts/charters pertaining to conservation, development and conservation; case studies on management of urban conservation of sites/ area in India and abroad, role of ASI and INTAC.

## Suggested Readings

1. The Urban Design Reader, Elizabeth McDonald, Routledge, New York
2. Public Places Urban Spaces : Dimensions of Urban Design , Mathew Carmona, Steve Teisdell, Architectural Press, London.
3. Redesigning Cities: Principles, Practice, Implementation , Jonathan Barnett , American Planning Association , New York.
4. Responsive Environments , Ian Bentley, Architectural Press, London
5. Image of the City , Kevin Lynch, MIT Press
6. Urban Design: The Architecture of Towns & Cities, Paul D. Spreiregen, R.E. Krieger Pub.
7. Town Design , Frederick Gibberd, Architectural Press, London
8. Making People Friendly Towns – Improving the Public Environment in Towns and Cities, Francis Tibbalds, Spon Press, London.

### Approvals

BOS : 21/01/2021, 31/03/2021

Sub Academic Council:

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Subject Code: **MURP 306**

Subject Name: **Elective-3 (Smart Cities)**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

### Objective:

To provide exposure to the emerging concepts and issues concerning future in smart cities. Cities worldwide have been reinventing themselves to increase their performance and efficiencies in infrastructure service delivery. This elective course is position in this context and will attempt to expose the course participants to the global regional discourses and practice of smart urbanization and infrastructure

### Content

#### Module 1

City branding initiatives-Sustainable cities, eco-cities, green cities, digital cities, intelligent cities, future cities, global cities, and smart cities, Future cities; Smart city discourses develop in the USA, Europe and Gulf States, application of the main themes of Smart city globally.

#### Module 2

Elements or dimensions of a smart city, smart economy, smart mobility, smart environment, smart people, smart living, and smart governance, Smart city capitals; Physical capital, Human Capital, Social Capital and intellectual capital.

#### Module 3

City and society': Social processes as agent of change- living, working, mobility, public facility, open data, the role of communication and information technology, ICT in developing smart cities; smart energy- smart buildings, smart transport and other related aspects for smart inclusive and sustainable cities; criticism.

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#### Module 4

The section focuses upon following latest developments relating to smart cities in India through reports, newspaper articles and conference, budgetary allocations, urban reforms and policies and capacity building proposed in India. Toolkits, index and models developed to measure smartness; European Union smart cities and relevance with Indian context.

#### Suggested Readings:

1. Deakin, Mark; Al Waer, Husam (Eds.) (2012), From Intelligent to Smart Cities, Routledge, Taylor & Francis, USA & Canada.
2. Rodriguez-Bolívar, M.P., 2015. Transforming city governments for successful smart cities. Springer.
3. Kemp, R.L. and Stephani, C.J. eds., 2013. Global Models of Urban Planning: Best Practices Outside the United States. McFarland.
4. Campbell, T., 2013. Beyond smart cities: how cities network, learn and innovate. Routledge.
5. Geertman, S., Ferreira, J., Goodspeed, R. and Stillwell, J.C.H. eds., 2015. Planning support systems and smart cities. Cham, Switzerland: Springer.
6. Coletta, C., Evans, L., Heaphy, L. and Kitchin, R. eds., 2018. Creating smart cities. Routledge.
7. Sharma, P. and Rajput, S. eds., 2017. Sustainable smart cities in India: Challenges and future perspectives. Springer.
8. Kundu, D., Sietchiping, R. and Kinyanjui, M., 2020. Developing National Urban Policies: Ways Forward to Green and Smart Cities. Springer Nature.
9. Kundu, D., Sietchiping, R. and Kinyanjui, M., 2020. Developing National Urban Policies: Ways Forward to Green and Smart Cities. Springer Nature.
10. Yigitcanlar, T., Han, H. and Kamruzzaman, M.L. eds., 2020. Approaches, advances and applications in sustainable development of smart cities. MDPI.

#### Approvals

BOS : 21/01/2021, 31/03/2021

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Subject Code: **MURP 307**

Subject Name: **Seminar on Planning Issues**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	6	50	50	100	6	Viva
Paper Setting						

**Objective:**

Students would be required to select topics of relevance in Planning Profession and undertake research on past initiatives and future possibilities in the area. The work would include literature review of previous initiatives in the area of research, tools and techniques developed, survey of stake holders' and expert opinions and reporting of findings in a technical report format.

**Contents:**

Identification of topic of interest having relevance to planning profession.

Journal article and book reviews of work existing in the selected area of work

Exposure to multiple view pointsof stakeholders, decision makers, advocates, technocrats, etc. on the topic.

Finding key issues related to the area of work.

Proposal of future possibilities and scenarios.

The student will be required to make two seminar presentations and submit a report at the end of the semester

**Approvals**

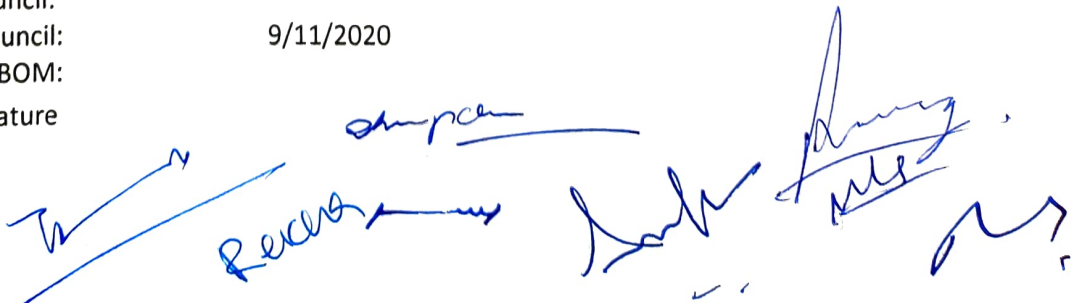
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## SEMESTER 4

Subject Code: **MURP 401**

Subject Name: **Thesis**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
	22	50	50	100	22	Viva
Paper Setting						

## Objective

The student should be able to use the knowledge and skills gained in past three semesters in an exercise of their own interest.

## Content

The students in this semester are expected to choose a exercise and proceed with research ,complete stages of data collection , data analysis , issues identification, impact assessment and formulation of strategies/proposals and present their thesis at viva voce examination.

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Subject Code: **MURP 402**

Subject Name: **Elective-1** (Planning For Special Areas)

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

**Objectives:** To introduce the students to various Special Areas with their specific planning needs and priorities and the implication on development in these areas.

### Module 1

Need for Special area planning, types of special areas and their defining characteristics. Evolution of special planning areas under distinct geo-physical structure, location, extreme backwardness etc. Planning commission approaches for identification of special areas.

### Module 2

Legislations and norms for Special Area Development in the Indian context. Planning for Special Areas under consideration would include Formal and Functional Regions (Hill Areas, Coastal Areas, Desert Areas, Extremist Affected Area, Special Economic Zones, Port City, Aerotropolis, Medi-City, Knowledge City etc.).

### Module 3

Capital investment and funding methods, public private partnerships in development process., Governance and Management aspects.

### Module 4

Case Studies of various typologies of Special Area Development Plans in Indian and international context.

Approvals

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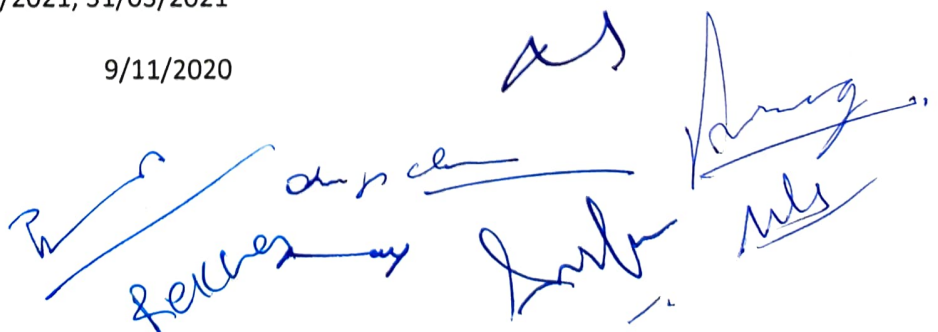
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**Suggested Readings:**

1. Development of Hill Areas, Dobha G.L, Concept Publishing
2. Environmental Problems of Coastal Areas in India, Sharma Vinod, Bookwell
3. Integrated Development of Hill Districts in India : Issues and Approaches, Gupta, R.C., SPACE
4. Special Economic Zones In India, P. K. Manoj, Serials Publications
5. Aerotropolis: The Way We'll Live Next, John Kasarda, Allen Lane
6. Environmental act in india, RumaChatterjee, Oxford University Press
7. CRZ Regulations, 2011, MoEF

Approvals

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Subject Code: **MURP 402**

Subject Name: **Elective-2(Politics and planning))**

Teaching Schedule		Marks for Sessional work	Marks for external Examiner	Total Marks	Credits	Duration of Examination
Lecture	Studio					
2		25	75	100	2	3 hours
Paper Setting						
Total Eight Questions: Q.No. 1 MCQ which is compulsory, Each unit shall have one question, total of questions to be attempted five						

## Objective

The course intend to make students understand the role and impact of politics in planning process.

## Content

### Module 1

Social and economic context; State in India – political culture of the Indian State – Centre – State – Local political economy: 74th Constitution Amendment Act, State Finance Commissions; Emergence of the State in the federal set up.

### Module 2

State as a manager of resources – property rights, norms and standards – Government market and market by Government – Regulatory State, Reforming State, and Rent Seeking State – their spatial implications; Development planning and the Indian state – Centralization, powerlessness and decentralization; spatial politics and competition; Politics of the State and bureaucracy; New State spaces, invited and contested spaces – changing role of the state

### Module 3

Politics related to land, shelter, urban infrastructure, resources; Regeneration and redevelopment politics; politics of provision, financing and pricing; decision-making and decision taking

### Module 4

Politics and emergence of civil society – NGO, CBO and their role in planning, development and management, collective bargaining and collective action

Approvals

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