

COURSE STRUCTURE & SYLLABUS

Masters of Planning (Urban Planning)

Based on

Choice Based Credit System (CBCS)/Elective Course System



**w.e.f.
Academic Year 2025-2026
(Batch 2025)**

Approved by Academic Council vide dated 26th June 2025

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1. General Information:

The course framework for the Master of Planning (M.Plan) at Babu Banarasi Das University serves as a comprehensive document detailing the Course Structure, credit distribution per subject, and the allocation of hours across Lectures, Studios, Tutorials, and Practicals. It also outlines the Eligibility Criteria for Admission, Degree Award requirements, and the Assessment and Evaluation methodologies adopted by the University. This Guide is designed to be read in conjunction with the University's Academic Regulations, providing a complete framework for academic governance. The curriculum and course structures have been approved by the University's *Board of Studies* and *Academic Council*, and are in consonance with the standards prescribed by the *All India Council for Technical Education (AICTE)* and other relevant statutory bodies.

Urban and Regional Planning, as a multidisciplinary field, integrates elements of Social Sciences, Environmental Studies, Engineering, Design, and Policy. Within this spectrum, technology and governance play increasingly critical roles, especially as planners address evolving urban challenges such as sustainability, resilience, equity, and climate change. The discipline requires an adaptive pedagogical approach that embraces innovation in planning tools, geospatial techniques, participatory processes, and data-driven strategies. Consequently, the teaching of Planning must respond to the dynamic shifts in urban systems, aligning itself with contemporary realities and future needs. Planning, in this context, is not merely a technical exercise but a visionary process — an evolving practice that continually reimagines the future of human settlements.

2. Program Outcomes

Our **Master of Planning (M.Plan)** program is structured to equip aspiring professionals with the knowledge, skills, and critical thinking required to engage with the complex and evolving challenges of urban and regional development. The program aims to prepare students for leadership roles in planning practice, policy formulation, and research, while fostering a deep understanding of spatial, social, economic, and environmental dimensions of human settlements.

At the same time, the curriculum ensures compliance with the **minimum standards and guidelines prescribed by national statutory bodies** such as the **All India Council for Technical Education (AICTE)** and aligns with emerging priorities outlined by institutions like the **Town and Country Planning Organisation (TCPO)**. The program remains flexible and responsive, allowing room for **continuous academic enrichment and curricular innovation**, so as to address the dynamic and interdisciplinary nature of planning education.

The **Programme Outcomes of M.Plan** are carefully aligned with the **vision and mission of the School of Architecture and Planning**, ensuring a coherent academic framework that nurtures socially responsible, environmentally conscious, and future-ready planning professionals.

Table 1: PO-Mission-Vision Mapping Matrix

PO No.	PO Statement
PO1	Field Knowledge: Apply the knowledge of Architectural Design, Drawing , Art, Sculpting, Crafts, structural dynamics and statics fundamentals and Laws pertaining to building byelaws and services required in simple and complex building projects, Economical aspects and an architectural specialization to the solution of complex architectural problems.
PO2	Problem Analysis: Conducting case and literature studies and analyze complex architectural problems reaching substantiated conclusions using principles of Architectural design, process of designing (case and literature study, research and conceptualization of designs).
PO3	Design / Development of Solutions: Establishing solutions for complex architectural problems and functional components or spatial arrangements that meet the specified needs and wants with appropriate consideration for the public amenities , services, health and safety and the cultural, societal and environmental considerations .
PO4	Conduct Investigations of Complex problems: Use of research based knowledge and research methods including methodology, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Application of appropriate techniques, resources and modern architectural tools including BIM and CADD oriented modeling to complex architectural, structural and construction activities with an understanding of its advantages and disadvantages .
PO6	The Architect, Planner and Society: Application of contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent drafting of proposals relevant to the professional practice.
PO7	Environment and Sustainability: Understanding the impact of the professional field solutions in societal and environmental context and demonstrate the need for sustainable development and applying the same thereof.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the professional practice, as prescribed and regulated by regulatory bodies.
PO9	Individual and teamwork: To effectively function as an professional individual and as a member or team leader in diverse situations and in multidisciplinary settings.
PO10	Communication: To communicate effectively with the professional community and stake holders and with society at large. Be able to comprehend and write effective reports documentation.
PO11	Project management and finance: To demonstrate knowledge and understanding of profession, and management principles and apply these to practice to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.
PO12	Life-long learning: To recognize the need for learning and develop an ability and skill to engage in a learning process in the broadest context of technological change in professional and technological realm.

The mapping provided underscores the alignment between the Master of Planning program outcomes and the University's vision and mission. The curriculum is meticulously designed to equip students with a balanced mix of analytical, creative, and technical competencies, fostering their professional and societal relevance through sustained interaction with the planning profession. Our educational objectives reflect the School's commitment to academic excellence, emphasizing both innovative problem-solving and the application of knowledge drawn from diverse traditional and contemporary planning paradigms.

Instruction and research in the program span a comprehensive range of disciplines including spatial planning, urban design, infrastructure systems, policy frameworks, environmental planning, and governance. Students are encouraged to critically engage with historical and contextual knowledge while responding to the dynamic complexities of urban growth and transformation. They are trained to navigate the planning and development of urban and rural settlements, preparing them to emerge as thought leaders in shaping inclusive, efficient, and resilient environments. The curriculum draws from international benchmarks in planning education, ensuring graduates are equipped for diverse roles in both public and private sectors within the rapidly evolving infrastructure and policy landscape.

Furthermore, with the global emphasis on the Sustainable Development Goals (SDGs), the planning discipline plays a pivotal role in advancing these objectives across scales. Accordingly, the curriculum integrates the SDGs into the learning outcomes of various planning courses, enabling students to devise strategies for healthier, equitable, and environmentally sustainable urban futures. By instilling this holistic perspective, the program empowers students to contribute meaningfully to the development of sustainable cities and communities, consistent with national priorities and global frameworks.

2.1 Salient features of the Programme

Some of the innovative initiatives for building Urban Planners as professionals are –

- Good communication skills
- Immense physical stamina
- Excellent memory
- Patience
- Team spirit
- Responsibility
- Accountability
- Creative Thinking Skills
- Observant Attitude
- Certification Programmes
- MOOCs/SWAYAM Courses
- Mentoring Program

2.2 Salient features of the program for building Urban Planners as professionals include:

- Emphasis on developing good communication skills
- Focus on building immense physical stamina
- Encouragement of excellent memory retention
- Cultivation of patience as a virtue
- Fostering a strong sense of team spirit
- Instilling a culture of responsibility
- Promoting accountability for actions
- Nurturing creative thinking skills
- Cultivating an observant attitude towards surroundings
- Offering certification programs for skill enhancement
- Integration of MOOCs/SWAYAM courses for broader learning opportunities
- Implementation of a mentoring program for personalized guidance and support

2.3 Integration of Programme Outcomes at Global/National/SDG level

The mapping provided underscores the alignment between the Master of Planning program outcomes and the University's vision and mission. The curriculum is meticulously crafted to equip students with the essential blend of analytical and practical skills, fostering their social and technological proficiency through continuous engagement with the planning profession. Our educational objectives reflect the school's commitment to planning excellence, emphasizing not only evidence-based decision-making but also drawing inspiration from a rich spectrum of traditional and contemporary planning theories.

Instruction and research in the program encompass a wide array of disciplines including spatial analysis, environmental systems, infrastructure planning, policy development, and professional practice. Students are encouraged to draw upon historical insights while adapting to the evolving demands of urbanization and sustainability. They are introduced to the complex dynamics of shaping urban and regional spaces, preparing them to become thought leaders influencing the future development of our cities. Our curriculum integrates global best practices in planning education, ensuring our students are well-prepared for diverse career pathways in the rapidly expanding infrastructure and governance sectors.

Furthermore, with the onset of the new Sustainable Development Goals (SDGs), urban and regional planning assumes a pivotal role in advancing these goals on global, national, and local scales. Consequently, the curriculum seamlessly aligns the outcomes of various planning courses with the contemporary SDGs, equipping future planners with the skills to develop healthier, safer, and environmentally resilient human settlements. By nurturing this ethos, our students contribute to the creation of inclusive communities and sustainable societies in the long run.

3. Eligibility for Admission:

1. Academic Qualification:

- A **Bachelor's degree** in one of the following, with a minimum of **55% aggregate (50% for reserved categories)**:
 - B.Plan (Urban Planning)
 - B.Arch (Architecture)
 - B.E./B.Tech (Civil/Environmental Engineering)
 - M.A./M.Sc. in Geography, Economics, Sociology, Environmental Science, GIS, Geomatics, Climate Studies, or Development Studies.

2. Entrance Criteria:

- Admission is **merit-based**, considering the candidate's graduation marks.
- **Preference** may be given to those who have qualified for national entrance tests such as **GATE**.

4. Programme Duration

4.1 The duration of the **Master of Planning (M.Plan)** program shall be **two academic years**, consisting of **four semesters**, in accordance with the model curriculum structure recommended by the **All India Council for Technical Education (AICTE)**.

4.2 The four semesters shall be grouped into two stages:

- **Stage I – Foundation Studies** (Semester I and Semester II), focusing on core theoretical frameworks, technical skills, and analytical tools essential to the planning discipline.
- **Stage II – Advanced and Applied Studies** (Semester III and Semester IV), emphasizing specialization, research, fieldwork, and professional application.

4.3 In keeping with AICTE's emphasis on industry-oriented learning, the M.Plan program includes a **mandatory professional internship** during the **final semester**, designed to provide students with practical exposure in urban and regional planning practices. Internships may be undertaken in collaboration with urban local bodies, development authorities, planning consultancies, research organizations, or relevant government departments.

5. Internship embedded degree programs

The **Professional Internship** is scheduled to be undertaken during the **summer break between the second and third semesters** of the M.Plan program. This four-week internship is an essential academic component designed to provide students with practical

exposure to real-world planning environments. The primary objective of this internship is to help students gain first-hand experience of the professional world, understand how planning organizations function, and enhance job-specific skills through learning by doing. Students are expected to work with urban local bodies, development authorities, planning consultancies, research institutions, or relevant government and non-governmental agencies. A major goal of this internship is to immerse students in actual work situations and build their capacity for professional practice in urban and regional planning.

During this period, students are oriented to professional workflows which may include spatial planning exercises, stakeholder meetings, policy drafting, land use analysis, site assessments, GIS applications, report writing, and involvement in ongoing urban development projects. The exposure helps bridge the gap between academic knowledge and field-level practice, facilitating a better understanding of the planning process from data collection and analysis to proposal development and implementation strategies.

Following are the intended objectives of engaging students in internship for employability in accordance with **AICTE Guidelines for Internship for Postgraduate Students**:

- **Integration of workshop with workplace:** To approach the internship in an integrated and outcome-oriented manner, aligning academic concepts and planning tools with deliverables in the host organization.
- **Understanding of the world of work:** To provide postgraduate students with opportunities to understand the organizational structures, work environments, challenges, and professional expectations within planning bodies and consultancies.
- **Hybrid model learning:** To encourage blended learning through a combination of on-ground work, digital tools, mentorship, and self-learning, offering flexibility and relevance to real-world scenarios.
- **Exposure in emerging technologies:** To gain practical familiarity with planning tools and software such as GIS, AutoCAD, Revit, Excel-based modeling, and data visualization platforms used in planning offices.
- **Enhance entrepreneurial capabilities:** To develop insight into planning-led entrepreneurship, public-private partnerships, and project implementation, fostering independent thinking and innovation for future planning practices.
- **Development of decision-making and teamwork skills:** To build skills in collaborative decision-making, problem-solving, group work, and interdisciplinary coordination that are integral to the planning profession.
- **Enhancing professional competency:** Beyond employability, the internship aims to inculcate ethical awareness, professionalism, responsibility, and planning acumen to prepare students for diverse roles in the planning sector, aligned with contemporary demands.

The credits of the internship shall be added in the following semester, that is the 3rd Semester for evaluation.

6. Programme Structure

As per the **AICTE (Minimum Standards of Planning Education Regulations)**, and under the **Choice-Based Credit System (CBCS)** — a learner-centric and flexible curriculum framework — the **Master of Planning (Urban Planning)** program at Babu Banarasi Das University comprises a structured mix of **Major Courses**, **Minor Courses**, **Professional Electives (PE)**, **Open Electives (OE)**, and **Skill Enhancement Courses (SEC)** to promote multidisciplinary learning and professional competence.

The courses are categorized as follows:

i. Major (Professional Core) Courses (PC): These are compulsory core subjects that constitute the foundation of urban planning education. They provide essential domain knowledge and skillsets central to the discipline and must be completed by all students enrolled in the M.Plan (Urban Planning) program.

ii. Minor (Supporting or Interdisciplinary) Courses: Minor courses offer supplementary knowledge in allied or interdisciplinary areas such as environment, infrastructure, housing, transport, economics, or social planning. These may either support the major area or offer interdisciplinary breadth, enabling students to apply planning concepts across diverse urban contexts.

iii. Elective Courses: These courses are selected by students from a broader pool to shape their individual academic trajectory. They include:

- **Professional Electives (PE):** Specialized or advanced courses within urban planning that allow students to deepen their expertise in areas like land use planning, regional development, GIS applications, or climate-resilient planning.
- **Open Electives (OE):** Courses offered across other departments or domains that allow students to explore new disciplines, expand their academic horizons, or develop complementary skills.

iv. Skill Enhancement Courses (SEC): These are practice-oriented and application-based courses that enhance technical, analytical, digital, and managerial skills relevant to urban planning. Topics may include GIS and Remote Sensing, data analytics, project management, or report writing. SECs are designed to improve hands-on capabilities and workplace readiness.

This integrated academic structure ensures that students are not only grounded in the core principles of planning but also have the flexibility to explore emerging themes, cross-disciplinary approaches, and industry-relevant skills — preparing them to meet the diverse demands of professional urban planning practice.

SEMESTER	Professional Core Courses (PC)		Elective Courses		Skill Enhancement Courses (SEC)	Total Credits
	Major	Minor	(i) Professional Electives (PE)	(ii) Open Electives (OE)		
1st	2	3	1	-	1	27
2nd	2	3	1	-	1	27
3rd	1	3	1	-	2	27
4th	1	-	-	-	1	29
Total Credits						110

7. Rules for Attendance

A student may be allowed to appear in the examination of each semester if he/she has attended **a minimum of 75% per course/subject.**

Students are encouraged to participate in co-curricular activities conducted by prestigious institutions at national/International level. Such students would be eligible for grant of special Duty Leaves (limited by a cap decided by the Vice Chancellor) to make up for the attendance. This privilege extended to students will not be termed as their Right and is only limited to the attendance benefit.

8. Grading System

The Babu Banarasi Das University (BBDU) Lucknow adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester. The grading system is with the following letter grades and grade points scale as given below:

Grading of performances (Letter grades and grade points allocations): Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in table

Practical Subjects		
Letter Grade	Grade Point	(Marks (%) (Int. + Ext.)
(Outstanding)	10	≥90
A+(Excellent)	9	≥75 and <90
A(Very Good)	8	≥60 and <75
B+(Good)	7	≥55 and <60
B(Above Average)	6	≥50 and <55
F(Fail)	0	<50
AB(Absent)	0	

Theory Subjects			
%Marks Range of Total	Grade	GradePoint	QualitativeMeaning
Outstanding	O	10	≥90
Excellent	A+	9	≥75 and < 90
Very Good	A	8	≥60 and < 75
Good	B+	7	≥55 and < 60
Above Average	B	6	≥50 and < 55
Average	C	5	≥45 and < 50
Pass	P	4	≥40 and < 45
Fail	0	0	<40
Absent	0	0	

A): Minimum Passing Criteria for Marks based System w.e.f. 2011-12:

Minimum Pass Marks: End-Semester Theory Examination in each Subject: 30%, End-Semester Theory Examination + Sessional in each Subject: 40%, Practical/Project Examination including Sessional: 50%, Seminar, Industrial Training and Educational Tour, Viva Voce etc.: 50%, Aggregate of an Academic Year (Both Semesters): 50%.

9. Program Overview

*The Program consists of subjects under the following categories:

L/T- Lecture/Tutorial (1L/T=1C); **S/P** – Practical (1P=1C); **C** – Credits

As per the **AICTE (Minimum Standards of Planning Education Regulations)**, and under the **Choice-Based Credit System (CBCS)** — a learner-centric and flexible curriculum framework — the **Master of Planning (Urban Planning)** program at Babu Banarasi Das University comprises a structured mix of **Major Courses**, **Minor Courses**, **Professional Electives (PE)**, **Open Electives (OE)**, and **Skill Enhancement Courses (SEC)** to promote multidisciplinary learning and professional competence.

SEMESTER I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							Total (A+B)
				L	T	S/P	C	CIA				ESE			
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3101	Urban Infrastructure Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Major	MPL3102	History of Human Settlement & Planning Theories	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3103	Traffic & Transportation Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Major	MPL3104	Principles & Techniques of Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3151	Housing	Practical	1	1	2	3	24	8	8	40	0	60	60	100
SEC	MPL3152	Planning Studio-I	Practical	2	2	12	10	0	0	0	160	0	240	240	400
PE	MPL3153	Elective-I	Practical	1	1	0	2	0	0	0	50	0	0	50	100
						Total	27							Total	1000

SEMESTER II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3201	Urban Risk & Disaster Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Major	MPL3202	City & Metropolitan Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3203	Metropolitan & Urban Development Policies	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Major	MPL3204	Land Markets & Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3251	Transport & Land Use Planning	Practical	1	1	2	3	24	8	8	40	0	60	60	100
SEC	MPL3252	Planning Design Studio-II	Practical	2	2	12	10	0	0	0	160	0	240	240	400
PE	MPL3253	Elective-II	Practical	1	1	0	2	0	0	0	50	0	0	50	100
						Total	27							Total	1000

SEMESTER III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3301	Research Methodology	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3302	Sustainable Planning & Development	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Minor	MPL3303	Project Planning & Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100
Major	MPL3304	Urban Development & Governance	Theory	2	1	0	3	24	8	8	40	60	0	60	100
SEC	MPL3351	Internship	Practical	1	1	2	3	24	8	8	40	0	60	60	100
SEC	MPL3352	Planning Studio-III	Practical	2	2	12	10	0	0	0	160	0	240	240	400
PE	MPL3353	Elective-III	Practical	1	1	0	2	0	0	0	50	0	0	50	100
						Total	27							Total	1000

SEMESTER IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3401	Planning legislation & professional practice	Theory	2	1	0	3	24	8	8	40	60	0	60	100
SEC	MPL3451	Thesis	Practical	4	22	0	26	0	0	0	360	0	540	540	900
						Total	29							Total	1000

10. Assessment and Evaluation:

Assessment:

Total assessment of a subject in any semester will be carried out under TWO Components:

1. **Internal Assessment:** This component will be assessed through modes of assessments like Class Assignments, Tutorial, Jury, Seminar, Tests, MCQs, Projects and Viva-Voce. Marks in the internal assessment shall be forwarded by the Dean/Director of the College to the COE at the end of each semester.

2. **External Assessment:**

Theory examination: The examination shall be held in accordance with the syllabus prescribed by the University. The medium of examination is English.

Practical examination: Examination shall be conducted by a committee of Examiners appointed by the School along with an COE in accordance with the syllabus prescribed by the university.

Evaluation:

1. **Internal assessment:**

Overall assessment will be done based on following rubrics of marks:

a) **QUANTITY:** To evaluate the output based on the problem introduced:

- **Assignments/Intermediate Juries (30%*):** The assignments/intermediate juries (selected as per the subject) will be introduced/conducted to develop the overall understanding of the topics being taught (for theory subjects) and problem solving.
- **Class Tests/ Sessional Tests /Viva (20% *):** In total two sessional tests will be conducted. 75% attendance will be compulsory to appear for sessional tests.

b) **QUALITY:** To evaluate overall skills developed/exhibited throughout the semester by the students:

- **For STUDIO subjects: Ideation (15% *), Process (20%*) and Presentation (15%*).**
- **For THEORY subjects: Understanding (15% *), Application (20%*) and Class performance (15%*).**

2. **External assessment (100%*):**

The assessment will be done by the evaluation of ESE and viva voce.

** Weightage out of total maximum marks (for the component) prescribed for the subject in the course framework.*

A student shall need to fulfill following conditions to be considered as pass. It is mandatory for a student to earn the required credits as mentioned in each semester. A student shall be required to obtain a minimum of 50% of the allotted maximum marks for the 'Sessionals' / 'Theory' / 'Practical' / 'Viva-Voce' / 'Planning Training' / 'Planning Thesis' in each subject to pass in the said subject.

- **50% in the Internal assessments** in each subject
and

- **45%** in the **External Examination** in each theory subject and **50%** in VIVA VOCE/ Practical/ Training/ Thesis wherever included.

Internal and External Reappear will be interrelated i.e., in case of failing in internal assessment for a subject a student will not be allowed to appear for external examination for the said subject. A student should score at-least 45% or more marks in both the components i.e., internal and external separately, in order to clear the subject.

If the student is detained from appearing in the end term examination because of shortage of attendance in the regular semester or is absent in the end term exam, his grade in that subject is 'Ab', till he/she appears again in the end term examination and obtains a new grade. His internal evaluation is carried forward in such cases for calculation of his/her total result and calculation of new grade.

11. Instructions for Paper Setting:

For Sessional Tests:

For Practical Subjects like Planning Design Studio, Housing, Transport & Land Use Planning, etc :

To be conducted by the Examination Department of BBD University.

- a) Mode of test to be opted by the Internal Faculty.
- b) Proposed modes of assessments are Class Assignments, Tutorial, Jury, Seminar, handwritten Tests, MCQs, Projects and Viva-Voce.
- c) Mode of Sessional Test shall be forwarded by the Dean/Director of the College to the Examination Department at the end of each semester.

For Theory Subjects like Urban Infrastructure Planning, City & Metropolitan Planning, etc :

To be conducted by the Examination Department of BBD University.

- a) Total duration of the exam would be 60 minutes.
- b) Maximum marks will be 30.
- c) Section A (Max. Marks = 05) will have 5 objective type questions of 1 mark each and all questions will be compulsory.
- d) Section B (Max. Marks = 10) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 5).
- e) Section C (Max. Marks = 15) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 7.5).

For End Term Examinations:

For Planning Design Studio:

To be conducted by the Examination Department of BBD University.

- a) There will be only one components for ESE namely:
 - Viva-voce: To be conducted by Department through External Examiners.
 - Maximum marks will be 240 Marks.

- Will consist of viva-voce on portfolio i.e. final submissions of the projects undertaken during the semester for the course. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners.

For Theory Subjects:

To be conducted by the Examination Department of BBD University.

- Total duration of the exam would be 3 hrs.
- Maximum marks will be 60.
- Section A (Max. Marks = 8) will have 8 objective type questions of 1 mark each and all questions will be compulsory.
- Section B (Max. Marks = 12) will have 4 questions out of which students would attempt any 3 (Max. Marks of each question = 4).
- Section C (Max. Marks = 40) will have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 20).

For other Practical Subjects.

To be conducted by the Examination Department of BBD University.

- Will consist of viva-voce on portfolio i.e. work done during the semester. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners. (For maximum marks please refer the Course Structure)

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3101	Urban Infrastructure Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand the importance of infrastructure planning and managing appropriate development schemes.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the successful urban water supply system practices.
2. Identify the Innovative Approaches of Sewage disposal in urban area.
3. Focus on Social infrastructure, Transport system and other supporting amenities required.

MODULE	COURSE TOPICS
Module 1	Water supply systems: Water supply systems and networks, network mapping; water sources, quality and quantity requirements, collection, and conveyance techniques; water requirement for various land uses; Factors affecting water demand; Storage facilities. Distribution Systems; rainwater harvesting system- Locational Criteria, Implications on Land Use and Density of Water Harvesting System; Innovative Methods and successful urban water supply system practices; policies.
Module 2	Storm water, Sanitation and Sewer system: Storm water drainage networks, network mapping; general considerations and principles, physical layout, design principles, Data requirement, estimations of sewer generation and network requirements; Sanitation and Sewer System: General considerations and principle, Sewage Disposal and treatment Methods; Characteristics of Wastewater, Industrial Pollutants and their Effects, Innovative Approaches of Sewage disposal in urban area.
Module 3	Telecommunication and Fire Fighting Services: Power Supply – Sources of Electricity; Transmission, Distribution and Supply network; Sustainable Energy Planning; Telecommunications - Infrastructure and Network Systems
Module 4	Transport & Social Infrastructure : Types and characteristics of transport systems. Principles of transport infrastructure planning and design- roads and intersections, street infrastructure elements Social infrastructure- Typologies; Planning norms and space standards for educational, health, recreational and socio-cultural facilities

REFERENCE BOOKS

1. Dragan, S., "Sustainable Water Management Solutions for Large Cities", IAHS Publication. . 2005.
2. Tchobanoglous, G., "Integrated Solid Waste Management: Engineering Principles and Management Issues", McGraw Hill. 1993
3. Goodman, A.S. and Hastak, M., "Infrastructure Planning Handbook: Planning Engineering and

Economics”, New York: ASCE Press. 2006

REFERENCE E- BOOKS & JOURNALS

1. A comprehensive guide covering transportation, power, urban, and digital infrastructure planning and management in India, with global insights.
[Download PDF/EPUB – SpringerLink](#)
2. An international peer-reviewed journal featuring multidisciplinary research on urban development, planning, and infrastructure.
[Explore the journal – Cogitatio Press](#)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/shorts/CUIP6qzsz4g?feature=share>
2. <https://youtu.be/1ONY4ckgeo>
3. https://youtu.be/3xtC_H6vN90
4. <https://youtu.be/wne5o7PvNcw>
5. https://youtu.be/W3yOD_XM5-4
6. <https://youtu.be/aOu3gWoR36c>
7. <https://youtu.be/6kOwPYPgExc>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3102	History of Human Settlement & Planning Theories	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

- To study the development of human settlements and the evolution process of planning principles

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

- Study the evolution of human settlements in modern context.
- Focus on Contributions of great planner towards development of city.
- Get an overview of Models of the planning process.

MODULE	COURSE TOPICS
Module 1	Evolution of human settlements : Relevance of evolution of human settlements in modern context. Historic determinants, Settlement types: ancient, medieval, renaissance, and industrial age.
Module 2	Impacts of Industrial revolution : Origin and evolution of planning; Impacts of Industrial revolution on town planning and regional planning. Contemporary developments in planning in India; formation of metropolitan areas; socioeconomic impacts of growth on population; rural-urban migration.
Module 3	Contributions of great planners : Contributions of Ebenezer Howard, Patrick Geddes, Tony Garnier, Lewis Mumford, Le Corbusier, and others in planning.
Module 4	Urban environment : The fundamental problems of the city; changes with time and growth; technological, social, and other changes in size and scale. Physical nature and characteristics of the urban environment and its components. Land uses, physical structure, and relationship between parts of city. Land use planning information system
Module 5	Models of the planning process : Models of the planning process, Goals of land policy, the interim and comprehensive plans: Structure Plan, Master Plan, Zonal Development Plan and Action plan their purpose and contents. System approach and physical planning, Choice theory and Advocacy planning.

REFERENCE BOOKS

- The Urban pattern: City planning and design / GALLION, A B.
- Textbook of Town Planning / BANDOPADHYAY, ABIR
- Town Planning / RANGWALA, R C
- Introduction to Town Planning / CATANES, A & SNYDER J
- Design of cities / BACON, EDMUND N
- Garden cities of tomorrow / HOWARD, EBENZER

REFERENCE E- BOOKS & JOURNALS

1. A comprehensive overview of human settlement evolution, from ancient cities through the 19th century.
[Read the e-book online](#)
2. An insightful academic piece reviewing the theory of urban planning across eras.
[Download the full paper \(ResearchGate\)](#)

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/au2IXn4KOks>
2. <https://youtu.be/uSbD-pGy9fw>
3. <https://youtu.be/TKvutTKxcXE>
4. <https://youtu.be/eXCn5YSXTrk>
5. <https://youtu.be/3lhhLY5Flug>
6. <https://youtu.be/QOFUvkoTNzo>
7. <https://youtu.be/CDLuBt2yAL4>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3103	Traffic & Transportation Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To study the elements of infrastructure and role of transport in urban and regional planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the capacity norms for urban roads with different widths.
2. Focus on different hierarchy of urban roads.
3. Identify Traffic Management Systems and Safety

MODULE	COURSE TOPICS
Module 1	Introduction & Urban Road Infrastructure : Definition, concepts, and utility of traffic engineering, Relationship between the traffic flow variables, fundamental of traffic flow. Design service volume, capacity norms for urban roads with different widths. Urban Road cross-sectional elements- right, Carriageway, median, service lane, footpath, curb, camber, side slope, service road etc. Geometry of horizontal curves of urban roads, Super elevation, sight distance, access control etc. along urban roads; Street Lighting types and design; guard rails; traffic signs and marking; NMT facilities, road landscape design features on urban roads.
Module 2	Design of Intersections: Types of intersections, visibility, design principles- alignment and vertical profile, visibility, radii of curves, channelization; roundabouts- capacity and design; capacity of saturation intersection; grade separated intersection design elements ramp gradient, acceleration and deceleration lanes, weaving. Introduction of traffic signals, warrant for Signals, phasing and inter green period, saturation flow, optimization; of signals, Vehicle actuated signal facilities, coordination of traffic signal, area traffic control system. Traffic management measures, Transport System Management techniques, Road safety- collection and analysis of accident Prevention strategies
Module 3	Transport & Planning, Management: Role of transport, types of Transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, lane use-transport cycle, concept of accessibility; hierarchy, capacity and geometric design elements of roads and intersections. Traffic and transportation surveys & studies, traffic, and travel characteristics; Urban transport planning process- stages, study area, zoning, data base, concept of trip generation Transport, environment and safety issues; Principles and approaches of traffic management, transport system management.

REFERENCE BOOKS

1. Bohlinger, M., "Planning Traffic Management", Springer 2010
2. Bruton, M.J., "Introduction to Transportation Planning", Amazon Co 2009
3. Burton E. and Mitchell, L., "Inclusive urban design: streets for life", Elsevier. 2006
4. Tiwari G., "The Way Forward Transportation Planning and Road Safety", IITD Publication

REFERENCE E- BOOKS & JOURNALS

1. An authoritative guide covering key topics in transportation planning, traffic engineering, and infrastructure design—ideal for students and practitioners alike.
[Read the full e-book \(PDF\) on Internet Archive](#)
2. A peer-reviewed journal presenting research, case studies, and policy insights on public transportation, urban mobility, and infrastructure planning.
[Visit the journal site – Urban Transportation & Construction](#)

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/1tURiB97Klw>
2. <https://youtu.be/17IWVre3XW4>
3. <https://youtu.be/0EIUnwcNLQY>
4. <https://youtu.be/bbXmWZYjZTc>
5. <https://youtu.be/t6Cu9Cve5BA>
6. https://youtu.be/k8d9kHSfh_4

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3103	Traffic & Transportation Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To study the elements of infrastructure and role of transport in urban and regional planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the capacity norms for urban roads with different widths.
2. Focus on different hierarchy of urban roads.
3. Identify Traffic Management Systems and Safety

MODULE	COURSE TOPICS
Module 1	Introduction & Urban Road Infrastructure : Definition, concepts, and utility of traffic engineering, Relationship between the traffic flow variables, fundamental of traffic flow. Design service volume, capacity norms for urban roads with different widths. Urban Road cross-sectional elements- right, Carriageway, median, service lane, footpath, curb, camber, side slope, service road etc. Geometry of horizontal curves of urban roads, Super elevation, sight distance, access control etc. along urban roads; Street Lighting types and design; guard rails; traffic signs and marking; NMT facilities, road landscape design features on urban roads.
Module 2	Design of Intersections: Types of intersections, visibility, design principles- alignment and vertical profile, visibility, radii of curves, channelization; roundabouts- capacity and design; capacity of saturation intersection; grade separated intersection design elements ramp gradient, acceleration and deceleration lanes, weaving. Introduction of traffic signals, warrant for Signals, phasing and inter green period, saturation flow, optimization; of signals, Vehicle actuated signal facilities, coordination of traffic signal, area traffic control system. Traffic management measures, Transport System Management techniques, Road safety- collection and analysis of accident Prevention strategies
Module 3	Transport & Planning, Management: Role of transport, types of Transport systems, evolution of transport modes, transport problems and mobility issues; Urban form and Transport patterns, lane use-transport cycle, concept of accessibility; hierarchy, capacity and geometric design elements of roads and intersections. Traffic and transportation surveys & studies, traffic, and travel characteristics; Urban transport planning process- stages, study area, zoning, data base, concept of trip generation Transport, environment and safety issues; Principles and approaches of traffic management, transport system management.

REFERENCE BOOKS

1. Bohlinger, M., "Planning Traffic Management", Springer 2010
2. Bruton, M.J., "Introduction to Transportation Planning", Amazon Co 2009
3. Burton E. and Mitchell, L., "Inclusive urban design: streets for life", Elsevier. 2006
4. Tiwari G., "The Way Forward Transportation Planning and Road Safety", IITD Publication

REFERENCE E- BOOKS & JOURNALS

1. An authoritative guide covering key topics in transportation planning, traffic engineering, and infrastructure design—ideal for students and practitioners alike.
[Read the full e-book \(PDF\) on Internet Archive](#)
2. A peer-reviewed journal presenting research, case studies, and policy insights on public transportation, urban mobility, and infrastructure planning.
[Visit the journal site – Urban Transportation & Construction](#)

REFERENCE YOUTUBE LINKS

7. <https://youtu.be/1tURiB97Klw>
8. <https://youtu.be/17IWVre3XW4>
9. <https://youtu.be/0EIUnwcNLQY>
10. <https://youtu.be/bbXmWZYjZTc>
11. <https://youtu.be/t6Cu9Cve5BA>
12. https://youtu.be/k8d9kHSfh_4

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3104	Principles & Techniques of Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To introduce foundational principles, methodologies, and analytical techniques essential for spatial and urban planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand and apply basic planning concepts, techniques, and terminologies in urban and regional contexts.
2. Analyze spatial structures, land use patterns, and development processes using planning tools. Develop basic planning proposals through surveys, mapping, and participatory approaches.

MODULE	COURSE TOPICS
Module 1	Planning definitions and concept, Categories of Planning (economic, social and physical) and their integration, Planning at different levels, Town as a physical, social, economic and functional entity, Town typology and their characteristics, Urbanization and Urban Growth Identification of problems and priorities, Preparation of plans; Perspective Plan, Master Plan Development Plan, Zonal Plans, Project Plans/Schemes, Concepts of land use, zoning regulations, Delineation of Local Planning Area Example of GIS Based Master Plan, SVAMITVA and other programs using urban and rural areas for spatial planning
Module 2	Concept of Regional Planning and development. Aims & Objectives of Regional planning, classification of regions, regionalization and delineation techniques for various types of regions, regional planning vis-vis National Five-Year Plans, Regional economic activities such as primary, secondary, tertiary factors governing & influencing the size, structure of these activities, Role of public participation in plan formulation and implementation. Scale of Delineation: Village, Block, District, Urban/city, Metro region, Meso and Macro regions and why do we need to delineate planning area. Dynamic regions and measuring the delineations. Use of existing administrative boundaries, Urban Agglomerations, existing and future dedicated urban planning areas, Built-up-area using remote sensing and drones, mobility surveys, Analysis of structure of nodes, hierarchy, nesting and rank size.
Module 3	Physical Surveys and Secondary Sources for Maps: Techniques of conducting surveys for land use, building use, density, structural condition of buildings, heights of buildings, land utilization and physical features of land, Data requirements for various types of regional plans, Techniques for conducting regional surveys. Use of NASA, Google, NRSA, and other sources for Remote

	Sensing and Drones, Survey of India, NIC classification of map codes, and Agricultural and Forest Ministry sources. Data requirements for urban and regional planning, Sources of primary and secondary data Quantitative and Qualitative methods of data collection, Validity and reliability of data, Questionnaire design, measurement scales and their applications, sampling techniques, types mailed participation, focus groups etc.
Module 4	Land suitability analysis, Land use classification, coding and analysis, residential and non-residential density patterns and their analyses, population and economic analysis. Tabulation of data, graphical presentation of data, Preparing pie diagrams, histograms, bar charts, normal, semi-log and double log graphs and their uses, colour, black and white presentation techniques, Understanding the discipline of illustrations and tables, Colour, black and white presentation techniques, Basic discipline of presenting illustrations, Presentation of spatial data, analysis and proposals. Planning Surveys, Primary-Sampling techniques, interview schedules and questionnaire design, Secondary data-format and attributes of data in terms of its relevance, reliability and compatibility, Census of India data, Data processing. Designing Performa for computers, classification, coding & tabulation, editing and control of error, Data presentation techniques, graphical presentation of data.

REFERENCE BOOKS

1. "Urban and Regional Planning" – Peter Hall
2. "Town Planning Techniques" – John Ratcliffe
3. "The Urban Pattern: City Planning and Design" – Gallion & Eisner
4. "Planning Theory" – Andreas Faludi

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *The Urban and Regional Planning Reader*
Author: Eugenie L. Birch
Link: <https://archive.org/details/urbanregionalpla0000unse>
2. **Title:** *Journal of the American Planning Association (JAPA)*
Publisher: Taylor & Francis
Link: <https://www.tandfonline.com/toc/rjpa20/current>

REFERENCE YOUTUBE LINKS

1. https://www.youtube.com/watch?v=cDn0n_X6osQ
2. <https://www.youtube.com/watch?v=WgRZDnG4GVU>
3. <https://youtu.be/0EIUnwcNLQY>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3151	Housing	Practical	1	1	2	3	24	8	8	40	0	60	60	100

SUBJECT OBJECTIVE

1. To understand issues and delivery mechanism in housing.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the issues and techniques of housing planning.
2. Clarify the Structure and functions of eco-systems.
3. Study of representative samples of different ecosystems.

MODULE	COURSE TOPICS
Module 1	Definition of housing and community. Housing as integral component of comprehensive urban and regional development. Housing and community form as shaped by physical, technological, socio-economic, demographic and political factors. Role of housing in social and economic development. Housing as an index for social welfare. Housing in relation to stages of development particularly as related to developing economy.
Module 2	Micro and macroeconomic view of the housing sector. Housing situation in India in quantitative and qualitative terms. Housing statistics. Obstacles to provision of housing in India and emerging issues and priorities in urban and rural housing. Basic considerations for the formulation of viable housing policy and programmes in consonance with availability of resources and feasibility of implementation and management. Housing policy options in developing communities
Module 3	Housing programmes in five year plans of India. Social housing programmes, Role of private and cooperative sectors in housing. Housing in the informal sector. Problems of slums and squatting. Public housing programmes, site and services and slums upgradation approach. The concept of housing standards and issues involved in formulation of standards. Housing and its relation to non- residential components of settlement.
Module 4	Socio cultural perspective of housing. Housing and family life. Principles of community organization. Social sources of residential satisfaction. Community participation in design and implementation of housing programmes. Public housing agencies in India at National, State and Settlement level. Their functions and programmes

REFERENCE BOOKS

1. Chiara, J.; Panero, J.; Zelnik, M., Time Saver standards-Housing, Pub. by McGrawHill, 1992
2. Beyer, Glen H., Housing: A factual analysis, Pub. by Macmillan, 1958.
3. Revi, A., Shelter in India – Sustainable developmental series, Pub. by Stosius Inc/Advent Books Division, 1990.
4. Douglas F., Sustainable Urbanism: Urban design with nature, Pub. by Wiley, 2007

REFERENCE E- BOOKS & JOURNALS

1. **Time-Saver Standards for Housing and Residential Development**
A comprehensive one-volume reference packed with architectural design data, planning standards, and planning techniques for various housing types and neighborhood development.
[Download PDF – Internet Archive](#)
2. **Journal of Housing and the Built Environment** (Springer)
A peer-reviewed hybrid journal featuring research on housing policy, spatial planning, social housing, and urban development.
[Explore the journal – Springer Link](#)

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/Aky7zVGUw-s>
2. <https://youtu.be/SSlDkiUc5vs>
3. <https://youtu.be/ShPwDyOZkeE>
4. <https://youtu.be/iFPokf8mwPk>
5. <https://youtu.be/s-fgc9Mmhuo>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3152	Planning Design Studio-I	Practical	2	2	12	10	0	0	0	160	0	240	240	400

PLANNING DESIGN STUDIO-IA LOCAL AREA PLANNING

SUBJECT OBJECTIVE

1. To equip students with the knowledge and skills to develop context-sensitive, inclusive, and implementable local area plans within the broader urban development framework.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand the principles, scope, and regulatory frameworks guiding local area planning.
2. Develop context-specific spatial and socio-economic strategies for local urban areas.
3. Demonstrate the ability to prepare implementable and participatory local area plans.

MODULE	COURSE TOPICS
Module 1	Each student in a group or individually shall be required to prepare infrastructure plan for an Urban Area/ Village. The exercise shall cover the following aspects a) Preliminary site investigation and analysis: Site inventory topography, soil characteristics, site resources and physiographic conditions. Site suitability for development- slope, drains. Site in relation to its surrounding and city/village level infrastructure lines. The proposed layout and population distribution. The students will visit the selected area of the study for the exercise as decided by the concerned teacher(s) b) General planning guidelines c) Application of norms and standards d) Requirements e) Design considerations and conceptual plans f) Proposals for infrastructure Physical water supply, sewerage network, drainage, rainwater harvesting, street & street furniture, solid waste management, Social education, health, recreational, postal, religious. The plan shall be suitably presented in the form of a report illustrated with necessary drawings, maps charts, diagrams and photographs

REFERENCE BOOKS

1. **“Local Area Planning”** – by NIUA (National Institute of Urban Affairs)
(Useful for understanding policies, procedures, and examples of LAPs in India)
2. **“Urban Planning: Theory and Practice”** – by A.K. Jain
(Includes practical approaches and policy frameworks in the Indian context)

3. **“Planning Sustainable Cities”** – by UN-Habitat
(Covers sustainable development approaches at neighborhood and city levels)
4. **“The Image of the City”** – by Kevin Lynch
(Essential for spatial analysis and perception studies at the local level)
5. **“Site Planning”** – by Kevin Lynch & Gary Hack
(Focuses on site-level design and planning which supports LAP exercises)
6. **“The Urban Pattern: City Planning and Design”** – by Gallion & Eisner
(Provides design principles and development controls that are applicable in LAP contexts)

REFERENCE E- BOOKS & JOURNALS

1. **The Practice of Local Government Planning (ICMA)**
A comprehensive guide covering principles, tools, and case studies in local area planning and governance.
[Read the full e-book \(PDF\) on Internet Archive](#)
2. **Journal of the Institute of Town Planners, India (ITPI)** – Special Issue on
Participatory Local Area Planning
This issue includes peer-reviewed research on tools like GIS and public participation in local planning processes.
[Download the PDF issue \(July–Sept 2021\)](#)

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/xKT8dOhJ0l0>
2. <https://youtu.be/nHp20Ra-ANc>
3. <https://youtu.be/i8LhbDJf2WU>
4. <https://youtu.be/9WtjzWm3rBE>
5. <https://youtu.be/PQiza6qWDHE>
6. <https://youtu.be/8xCrd-tqB48>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3152	Planning Design Studio-I	Practical	2	2	12	10	0	0	0	160	0	240	240	400

**PLANNING DESIGN STUDIO-IB
APPLIED SOCIO-ECONOMIC TOOLS FOR PLANNING**

SUBJECT OBJECTIVE

1. To equip students with practical socio-economic tools and techniques essential for informed urban and regional planning decisions.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand and apply key socio-economic indicators to analyze urban and regional development patterns.
2. Develop skills to conduct and interpret household, employment, and income surveys for planning purposes.
3. Utilize statistical and spatial tools to evaluate social equity and economic viability in planning proposals.

MODULE	COURSE TOPICS
Module 1	Concepts in Sociology and Tools for Planning: Sociological concepts and methods, man and environment relationships, Socio-cultural profile of Indian society and urban transformation, Tradition and modernity in the context of urban and rural settlements, Issues related to caste, age, sex, gender, health safety, and marginalized groups, Displacement, resettlement and rehabilitation due to compulsory land acquisition. Community and Settlements: Social problems and social structure and spatial planning, Role of socio-cultural aspects on growth patterns of city and neighbourhood communities, Social planning and policy, and community participation, Marginalization and concepts of inclusive planning, and gender concerns in planning, FGD, Stakeholders meetings, Perception and Vision Analysis, and other social tools for social analysis.
Module 2	Concepts in Economics & Its Applications in Planning: Concepts of demand, supply, elasticity and consumer markets, concept of revenue costs, Economies of scale, economic and social costs, production and factor market, Different market structures and price determination, market failures, cost-benefit analysis, Determinants of national income, consumption, investment, inflation, unemployment, long-term investment planning. Fiscal Budget Responsibility Management (FRBM) Agglomeration Economies and Diseconomies and spatial planning. Development Economics and Lessons from Indian Experiences: Economic growth and development, quality of life, Human development index,

	poverty and income distribution, employment and livelihood; Economic principles in land use planning. Economic Policies and strategies in economic planning, balanced versus unbalanced growth, Local Economic Development and sectoral push, Land Value Capture.
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REFERENCE BOOKS

1. **Mishra, S.K. & Puri, V.K.** – Indian Economy
– Covers macro and micro economic principles relevant to planning.
2. **Kundu, A.** – Urban Development and Urban Research in India
– Discusses socio-economic dimensions in urban growth and planning.
3. **Sen, Amartya** – Development as Freedom
– Focuses on the socio-economic aspects of development and human capability.
4. **Todaro, Michael P. & Smith, Stephen C.** – Economic Development
– Offers analytical tools and policy perspectives for socio-economic development.

REFERENCE E- BOOKS & JOURNALS

1. **"Economic Development" by Todaro & Smith**
[Read on Internet Archive (Free with Account)]
https://archive.org/details/economicdevelopm00toda_1
2. **Economic & Political Weekly (EPW)**
[Articles on socio-economic issues and policy planning in India]
<https://www.epw.in/>
3. **Journal of Urban Affairs** – Taylor & Francis
[Urban socio-economic issues, governance, and public policy]
<https://www.tandfonline.com/toc/ujua20/current>

REFERENCE YOUTUBE LINKS

1. **Understanding Socio-Economic Indicators in Urban Planning**
<https://www.youtube.com/watch?v=MSk5UIDRrxM>
2. **Socio-Economic Survey and Data Analysis (NIUA/CEPT style walkthrough)**
<https://www.youtube.com/watch?v=0vAotSXB7F0>
3. **Basics of Social Impact Assessment (SIA)**
<https://www.youtube.com/watch?v=6w2x1cDWuWw>
4. **Participatory Planning and Community Engagement in Urban Development**
<https://www.youtube.com/watch?v=Y0ZzrkJp8c8>
5. **Poverty Mapping & Planning Tools (GIS-based analysis)**
<https://www.youtube.com/watch?v=fylo7C0b1KM>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3152	Planning Design Studio-I	Practical	2	2	12	10	0	0	0	160	0	240	240	400

PLANNING DESIGN STUDIO-IC PLANNING TECHNOLOGIES

SUBJECT OBJECTIVE

- To equip students with the fundamental concepts and practical skills in Geographic Information Systems (GIS) and Remote Sensing for spatial analysis and decision-making in urban and regional planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

- Understand the principles and components of GIS and Remote Sensing and their relevance to urban and regional planning.
- Apply spatial data collection, analysis, and visualization techniques using GIS software.
- Interpret satellite imagery and generate thematic maps for informed planning decisions.

MODULE	COURSE TOPICS
Module 1	Basic Principles of Remote Sensing: Concept and Scope of Remote Sensing Definitions, Process, and Characteristics of Remote Sensing System, Advantages and Limitations, Types and Characteristics of Sensor: Imaging and non-imaging sensors, Active and passive sensors, Resolution of Sensors: Spectral, Spatial, Radiometric & Temporal; Swath, coverage, Scale, Mapping unit, multiband concepts, False Colour Composites, Multispectral and Hyper-spectral Remote Sensing. Drone Image Capturing, types of drones, Scale and Regulations, Show Remote Sensing, Drone data and GIS software platforms and students can get a hang of the new software and its UI. Downloading Satellite imagery, File import and conversion, Layer stack, Mosaic, creation of AOI and image subsets/clipping Advanced Remote Sensing Analysis Techniques: Indices (NDVI, NDBI, etc.), Supervised and unsupervised classification with accuracy assessment, kappa coefficient, and matrix, Pattern recognition (Spatial and temporal), Time series and Change detection techniques.
Module 2	Basic Concepts for Working in GIS: Definition and Components of Geographic Information System, Functionality, and Areas of GIS Application, Advantages and Limitations of GIS, Variables: points, lines, polygon, Spatial and Attribute Data, Data Structures Raster and Vector data structures, Spatial and non-spatial data of GIS, and formats, Geo-database, Digitization, and geo-referencing. Geography Required for GIS: Coordinate system and its types: Cartesian, Geographic, Projected, Northing & Easting and Latitudes & longitudes conversion of latitude-longitude between different formats, Difference between real earth surface, geoid, and ellipsoid, Concept of horizontal datum, vertical

	datum, UTM and UTM Zones, Map projections and their various types. AutoCAD Software and its Application in Planning
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REFERENCE BOOKS

1. **Burrough, P.A., & McDonnell, R.A. (1998).** Principles of Geographical Information Systems. Oxford University Press.
2. **Lillesand, T.M., Kiefer, R.W., & Chipman, J.W. (2015).** Remote Sensing and Image Interpretation. Wiley.
3. **Longley, P.A., Goodchild, M.F., Maguire, D.J., & Rhind, D.W. (2015).** Geographic Information Systems and Science. Wiley.
4. **Campbell, J.B., & Wynne, R.H. (2011).** Introduction to Remote Sensing. Guilford Press.

REFERENCE E- BOOKS & JOURNALS

1. **Fundamentals of Geographic Information Systems** by Michael N. DeMers
2. **Remote Sensing and GIS** by Basudeb Bhatta
3. **GIScience & Remote Sensing** (Taylor & Francis)
4. **Remote Sensing (MDPI Journal)** – Publishes research on sensors, data processing, and applications

REFERENCE YOUTUBE LINKS

1. **"Introduction to GIS" – ESRI**
<https://www.youtube.com/watch?v=Bnra6X9s6uU>
(A foundational overview of GIS technology from a global leader in GIS software.)
2. **"Basics of Remote Sensing" – NPTEL (IIT Roorkee)**
<https://www.youtube.com/watch?v=GUVks6KzD6k>
(Academic-quality lecture from India's top engineering institution.)
3. **"GIS in Urban Planning" – Planetizen Courses**
<https://www.youtube.com/watch?v=Yg4Hc8rGq3k>
(Urban planning applications using GIS technology.)
4. **"Remote Sensing and GIS – Full Course" – MIT OpenCourseWare**
<https://www.youtube.com/watch?v=ULv4g3eC9JQ>
(Complete course covering fundamentals to advanced topics.)
5. **"How GIS Works – Practical Demo" – Geoawesomeness**
<https://www.youtube.com/watch?v=nqQ4rPvaAA8>
*(A simplified explanation of how GIS works)

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3153 (1)	Elective-I(Planning Tourism)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To understand the principles, strategies, and planning tools required for sustainable tourism development and integration of tourism in urban and regional planning frameworks.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand the spatial, economic, and environmental dimensions of tourism and its impact on urban and regional development.
2. Analyze tourism typologies and assess tourism potential through planning tools and techniques.
3. Formulate sustainable tourism development strategies aligned with local culture, heritage, and ecological sensitivity.

MODULE	COURSE TOPICS
Module 1	Tourism industry and tourist destinations; development trends and impacts Tourism as an industry; basic terminologies used in the tourism industry; Butlers destination cycle and tourist destinations; tourism industry in the developed and the developing world; economic, social and environmental impacts of tourism industry; need for tourism planning.
Module 2	Tourism planning and management; Value chain of the tourism industry; various stakeholders and their roles; concepts and issues in tourism planning and management; host community, visitors and natural resources; partnerships and collaborations.
Module 3	Tools, techniques and assessment models; Value up gradation using value chain assessment models (VCA); economic impact assessment models using forecasting techniques, tourism multipliers and input – output models; destination carrying capacity assessment; role of education and self-regulation in tourism planning.
Module 4	Tourism plans and policies; Nature and scope of tourism plans; tourism plans and policies at various levels; key issues in policy formulation and survey requirements; role of various stakeholders in formulation of plans and policies; implementation and management at various levels and issues, Sustainable tourism; SMART tourism; role of ecommerce in the tourism industry; changing role of host communities and hospitality in tourism; responsible tourism; issues and challenges faced by new trends.

REFERENCE BOOKS

1. **Tourism Planning: Basics, Concepts, Cases** – Clare A. Gunn & Turgut Var
2. **Sustainable Tourism: A Global Perspective** – Rob Harris, Tony Griffin, and Peter Williams
3. **Tourism and Development: Concepts and Issues** – Richard Sharpley & David J. Telfer
4. **Cultural Tourism: The Partnership Between Tourism and Cultural Heritage Management** – Bob McKercher & Hilary du Cros

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Tourism Planning and Development*
Author: J. Rudra Prasad
Link: <https://archive.org/details/tourismplanningdevelopment>
2. **Title:** *Tourism Management*
Publisher: Elsevier
Link: <https://www.sciencedirect.com/journal/tourism-management>

REFERENCE YOUTUBE LINKS

1. **UNWTO – Tourism and Sustainable Development**
<https://www.youtube.com/watch?v=3vNInK8a1C4>
(By UN World Tourism Organization – explains how tourism can align with sustainable development goals.)
2. **Tourism Planning and Development | B. Sc. Hons in Tourism**
<https://www.youtube.com/watch?v=EXapqvXVGkI>
(An academic overview on planning and development in tourism.)
3. **Eco-Tourism and Sustainable Development**
<https://www.youtube.com/watch?v=a-zLSIWqFSA>
(Focuses on planning ecotourism and sustainable practices in tourism planning.)
4. **How Cities Can Promote Cultural Tourism** – TEDx Talk
<https://www.youtube.com/watch?v=zOhOQ72UE5E>
(Explores the role of tourism in urban development and culture.)
5. **Tourism Master Planning in India**
<https://www.youtube.com/watch?v=ueIXslqTlIE>
(Discussion on tourism infrastructure and planning initiatives in India.)

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3153 (2)	Elective-I(Community Planning & Participation)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To understand the concept, importance & process of community planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn the types, definition & activity patterns of a community.
2. Focus on Principles of Community Planning.
3. Understand about participatory monitoring and evaluation.
4. Have a glance on case Studies on Community Participation

MODULE	COURSE TOPICS
Module 1	Overview of communities – definition, type, attributes, activity patterns, locational patterns; sociocultural aspects; community needs and spatial requirements ; socio-economic implication. Community planning- Principles, approaches and key considerations; spatial-socio-economic linkages; inclusion and quality of life; neighbourhood planning; local area planning
Module 2	Participatory Learning (PLA) tools: Mapping local context and problem identification, Focus Group Discussions, Audit of communities and its facilities; rapid assessment of community needs and planning intervention. Participatory process in housing and community development; Community participation-community involvement, community action; role of CBOs, NGOs, SHGs, etc.
Module 3	Participatory approaches, Typology of participation, Key principles of applying participatory methods and tools, Participatory attitudes and behaviour, Teamwork skills in the context of participation, PLA/PID Tools, Participation as a process, Participatory Monitoring and Evaluation, Beneficiary Assessment, social assessment, stakeholder analysis
Module 4	Detailed cases of community participation in areas of provision of housing/shelter, electricity, water supply, sanitation, solid waste disposal, transport, social infrastructure – health, education and cultural facilities; economic upliftment, resource mobilisation; maintenance and management of community assets

REFERENCE BOOKS

1. Eric Damian Kelly' "Community Planning, An Introduction to the Comprehensive Plan", Island Press, 2010
2. Chritine Wenman & Wendy Sarkissian, "Creative Community Planning: Transformative Engagement Methods for Working at the Edge", Earthscon, 2010

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Community Planning: Integrating Social and Physical Environments*
Author: Gallent, Nick & Tewdwr-Jones, Mark
2. **Title:** *Journal of Planning Education and Research (JPER)*
Publisher: Association of Collegiate Schools of Planning

REFERENCE YOUTUBE LINKS

1. **Community Participation in Urban Planning** – UN-Habitat
<https://www.youtube.com/watch?v=2O1-dlqLrFw>
(Explains participatory planning tools and case studies by UN-Habitat.)
2. **What is Participatory Planning?** – SDSN Youth
<https://www.youtube.com/watch?v=qW2f6S19ScM>
(A student-friendly introduction to participatory urban and regional planning.)
3. **Public Participation in Planning** – Planetizen
<https://www.youtube.com/watch?v=R2go7Fb1zW8>
(Discusses techniques and importance of involving the public in planning decisions.)
4. **Participatory Planning: A Tool for Inclusive Cities** – The World Bank
<https://www.youtube.com/watch?v=ydrnjl7J9E>
(Explores community-led initiatives and how planners can engage inclusively.)
5. **Designing With Communities: Lessons in Participation** – Massachusetts Smart Growth Alliance
https://www.youtube.com/watch?v=n-Q2GvJ_M6g
(Real-world examples of collaborative design and planning from the US.)

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3201	Urban Risk & Disaster Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand causes and consequences for urban risks and disaster and to understand principles for planning and management for its mitigation.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the role of land-use planning & development control regulations in managing urban risks.
2. Analyse Urban Risks Assessment
3. Understand Disaster Types and Impacts

MODULE	COURSE TOPICS
Module 1	Urbanisation and Associated Risks: Urbanisation patterns, resource consumption and environment versus economy and their impacts; Resource Depletion & Pollution, Environmental Concerns and Challenges, impact of human activity on environment Urban Risks- Definitions, Types and nature, Magnitude; Hazard, vulnerability, and risks; Climate Change Risks and Resilience Methods and approaches to urban risk assessment; hazard impact assessment, institutional assessment; socioeconomic assessment, Risk Mitigation and Risk Transfer; Causes and risk mitigation strategies for industrial, chemical & biological disasters
Module 2	Disaster Types and Impacts: Disasters- Definitions, types and examples of disasters across the World; Natural disasters and manmade Calamities, Degree of Damage, Frequency of Occurrences and Other Historical Facts; Classification of Disasters in India, land use planning, building bye laws & disaster safe construction practices. Identification of Disaster-prone areas; Forecasting & early warning systems for various types of disasters, management; Disaster Vulnerability Mapping; Disaster Preparedness, Response and Post Disaster Recovery & Rehabilitation Measures.
Module 3	Disaster Mitigation and Management: Kyoto Framework of Disaster Mitigation & Management; Disaster Management Policies and Act National and States; Select Global Practices. Disaster Coordination Centres functions, logistics, operations & planning. Developing and Assessing Disaster Management Plans; Community engagement; Standard Emergency Warning Signal (SEWS); and the Emergency Alert System, Basic Principles of Incident Command System – Facilities, Resource Management, Event Planning Process, Emergency response management principles and concepts; ICT in emergency responses

REFERENCE BOOKS

1. Fabrice G. Renaud, Karen Sudmeier-Rieux and Marisol Estrella, “The Role of Ecosystems in Disaster Risk Reduction”, United Nations University Press 2013.
2. K. J. Anandha Kumar & Ajinder Walia, “India Disaster Report 2012”, NIDM 2013.
3. Bandyopadhyay C, “Training Module on Urban Risk Mitigation”, NIDM 2013.

REFERENCE E- BOOKS & JOURNALS

1. **Title:** Disaster Management: Global Challenges and Local Solutions
Author: Rajib Shaw & R.R. Krishnamurthy
Link: <https://link.springer.com/book/10.1007/978-1-4020-5179-9>
2. **Title:** International Journal of Disaster Risk Reduction (IJDRR)
Publisher: Elsevier
Link: <https://www.sciencedirect.com/journal/international-journal-of-disaster-risk-reduction>

REFERENCE YOUTUBE LINKS

1. **Disaster Management | Class 10 | CBSE | UNDP India**
<https://www.youtube.com/watch?v=r6fv3YxTbN8>
(Gives a foundational overview of disaster types and management strategies.)
2. **Introduction to Disaster Risk Reduction – UNDRR**
<https://www.youtube.com/watch?v=3r3jYkzB3sE>
(Produced by UNDRR, covers the basics of disaster risk reduction frameworks.)
3. **NDMA India – Role in Disaster Management**
https://www.youtube.com/watch?v=_2-FgmEXi8E
(Explains the structure and functioning of India’s National Disaster Management Authority.)
4. **Urban Risk and Disaster Management – NPTEL**
<https://www.youtube.com/watch?v=UnTRjl-Ja5A>
(Academic lecture by NPTEL on disaster risk in urban contexts.)
5. **Types of Natural Disasters and Management Tips | National Geographic**
<https://www.youtube.com/watch?v=1hYVDuZH3eM>
(Visual, global perspective on natural disasters and responses.)

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3202	City & Metropolitan Planning	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand the need and principles for city and metropolitan planning with the help of best practices in India and abroad.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the Urban Structure and Growth Implications
2. Learn Theories of urban structure and land use.
3. Understand Best practices of city and metropolitan planning in India and abroad.

MODULE	COURSE TOPICS
Module 1	Urban Structure and Growth Implications: Growth of cities; cities as engine of growth; urban sprawl; land value, economic attributes of activity location, economic forces in urban development; Structure of City Regions, area of influence, Impact of technology on urban forms; Transportation and urban form; location characteristics and impact of urban settlements.
Module 2	Theories of Development and Emerging Concepts: Theories of urban structure and land use- Centre place theory, urban realm model, core frame theory; New urbanism; Territorial Development Theory - Growth pole theory, urban bias critique, secondary cities and urban diffusion; Emerging Rural Urban Relationship models – urban rural linkage, expanding city, globalisation and extended metropolitan region, Desakota model, Networked model; Territoriality of rural-urban interaction; Peri- urban Interface (PUI) case studies.
Module 3	Planning Norms, Standards, Approaches and Techniques: Spatial standards for residential, industrial, commercial, institutional, transport, ecological spaces, recreational areas etc.; space standards for facility areas, utilities and networks; performance standards. Approaches for preparation of Urban development plans, Master Plans, Structure plans and Strategy Plan; Public Participation and Plan Implementation; Techniques of urban renewal and redevelopment; System approach to planning; Threshold analysis, retail location and industrial location analysis; transport system analysis
Module 4	Planning Approaches for Special Areas: Special area planning- definition, types, attributes, requirements, planning process; inner areas , peri-urban areas issues and planning approaches; Smart City – Concepts, Elements, Features, planning approach and strategies, policy efforts in India; Inclusive planning- Concept and components, essential dimensions of inclusive planning; growth of informal sector, characteristics, linkages with formal sector, Planning interventions, Inclusive zoning, development and building regulations, slum

	improvement;
Module 5	Best Practices in City and Metropolitan Planning: Best practices of city and metropolitan planning in India and abroad, inter-disciplinary policy issues and public actions for guiding metropolitan development

REFERENCE BOOKS

1. A.K. Jain, "Town Planning", Khanna Books
2. Amly Kumar Das, "Urban Planning in India",

REFERENCE E- BOOKS & JOURNALS

1. **"The City Reader"** by Richard T. LeGates and Frederic Stout
A comprehensive collection of writings on urban planning, covering classic and contemporary views.
2. **"Cities: The International Journal of Urban Policy and Planning"**
Publishes original research on urban development, planning, and policies at metropolitan levels.

REFERENCE YOUTUBE LINKS

1. **Topic:** *Introduction to Metropolitan Planning*
[Urban Planning - Metropolitan Cities Explained](#)
2. **Topic:** *City & Regional Planning Explained*
[City and Metropolitan Planning | NPTEL Lecture](#)
3. **Topic:** *Smart City Planning & Policy*
[Smart City and Metropolitan Development by World Bank](#)
4. **Topic:** *Transit-Oriented Development in Metropolitan Regions*
[Transit-Oriented Development: A Tool for Sustainable Metropolitan Planning.](#)

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3203	Metropolitan & Urban Development Policies	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand and critically evaluate the frameworks, strategies, and implications of metropolitan and urban development policies in shaping sustainable and inclusive urban growth.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Develop an understanding of policy frameworks influencing metropolitan and urban development at national and regional levels.
2. Analyze the impacts of urban policies on spatial planning, infrastructure provision, and governance structures.
3. Formulate context-specific recommendations for inclusive and sustainable urban development based on policy analysis.

MODULE	COURSE TOPICS
Module 1	Nature of public problems, planning as a public issue, policy process, limitations in public and private Sector: Strategic policy planning. Overview of policy analysis, scope, significance and contextual perspectives, public policy delivery agencies and Implementers, Public policy implementation. Gaps and problems.
Module 2	Policy Process. problem definition, policy objectives and options, policy implementation, policy evaluation and maintenance, Policy making approaches: Power approaches, Institutional approaches, Strategic Planning, Rational approach and Simon's Rationality Model, Decision-making process and techniques, Policy monitoring approaches and techniques, Role of non-officials in policy making, Intergovernmental relations and public policy issues, Public policy implementation: Approaches and models, Inter-organizational relations and public policy implementation
Module 3	Techniques and approaches to policy building, Policy evaluation Indicators, Policy scenarios formulation, Public policy evaluation role, process and criteria, Policy implementation, performance evaluation and impact
Module 4	National Urbanization Commission Policy (NUC), National Urban Housing & Habitat Policy. Master Plan Policy, Programmes and Policies IDSMT, Smart City, AMRUT, JNNURM, HRIDAY, etc National Policy for Urban Street Vendors, National Environmental Policy, National Urban Transport Policy, National Water Policy, National Sanitation Policy, National Policy on Energy Policies to promote efficient urban spatial development, development of eco-

	friendly neighborhoods, Flexible FSI in urban design and planning, Transport and land use integration, Integrated spatial and economic planning. Inclusionary zoning regulations: Renewal of neglected historic districts and derelict inner city areas, Integrating environment in urban planning and development; Green urban economy approach, Environment and social opportunities of densities, Green urban infrastructure, Green urban governance, Best practices of urban development and planning policies approach and impacts, Procedure and inter-disciplinary issues related to policies.
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REFERENCE BOOKS

1. **"Urban and Regional Development Planning: Policy, Models and Tools"** by Dennis A. Rondinelli
2. **"The Urban and Regional Planning Reader"** edited by Eugenie L. Birch
3. **"Making Cities Work: Urban Policy and Infrastructure in the 21st Century"** by Robert P. Inman

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Urban Policy in the European Union*
Author: Rob Atkinson
2. **Title:** *Cities* (Elsevier) – International Journal of Urban Policy and Planning
Link: <https://www.sciencedirect.com/journal/cities>

REFERENCE YOUTUBE LINKS

1. **What is Metropolitan Planning? | An Overview**
<https://www.youtube.com/watch?v=ekcFFNVNZ18>
2. **Smart Cities and Urban Development Policies** – World Bank Panel Discussion
https://www.youtube.com/watch?v=K_KwfywE_Zc
3. **Urban Policy and the Politics of Planning** – MIT OpenCourseWare
<https://www.youtube.com/watch?v=rsZ4sVKAX2A>
4. **Urban Governance: Key Concepts & Frameworks** – UN-Habitat Learning Series
<https://www.youtube.com/watch?v=aPmo4yHbHfO>
5. **City Planning Strategies: How Urban Policies Shape Cities** – TEDx Talk
<https://www.youtube.com/watch?v=0gG-Ju3k70Q>
6. **What is Metropolitan Planning? | An Overview**
<https://www.youtube.com/watch?v=ekcFFNVNZ18>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3204	Land Markets & Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To develop an in-depth understanding of the functioning, dynamics, regulation, and planning implications of land markets for effective urban land management and policy formulation.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand the structure, behavior, and dynamics of urban land markets.
2. Analyze regulatory frameworks, institutional mechanisms, and land valuation techniques.
3. Apply land management tools in planning to address issues of equity, efficiency, and sustainability.

MODULE	COURSE TOPICS
Module 1	Introduction to Land Economics, Land Policy and Land Markets: Economic Principles of Land use, Concept of Rent and its application, Demand forecasting for land, factors affecting land supply and demand, interpretation of Revenue Maps (Cadastral maps), Market Conditions: formal and informal, legal and illegal, Instruments of land policy and impact on markets Planning instruments, market development instruments, financial development instruments, fiscal instruments, and other supportive instruments: Market by Government and Government by Markets, Regulation, monopoly power and its use, private development, Rent-seeking and its impact on land supply, access to land by various segments of population, and PPP in land, Introduction to Resettlement & Rehabilitation (R&R).
Module 2	Supply and Demand Side Management: Property Rights, ownership, user and exchange rights: Its implication on land supply: Land Development: Type, cost, methods of disposal; Corruption and land markets: Corruption, black money and land markets, Relation between land, share and gold markets.; Demand side Management Income elasticity of land, business cycles and its impact on demand for land, externalities and internalities in land development and induced demand, economic growth and demand for land, Changes in tastes and preferences and its effect on type of land; Poor and their demand; Physical, fiscal, financial and legal incentives for inducing or restricting the demand for land; Mega investments and its effect on land. Regulation in Land Markets: Social justice and land distribution. public domain, social democratic regulation, corporatist regulation, collective action of the state and regulation of its supply of land overall impact of regulation on land prices Master Plan, Zoning and other planning regulations and their impact on supply.

Module 3	Land Management Techniques and Land Pricing: Land Management Techniques: Private land assembly, co-operatives in land development, FDI in land development, land pooling and plot reconstitution, Transfer of development rights, land sharing and land lease, Land Pricing: Land valuation techniques, land pricing, subsidies, auctions, type of development: plotted, flatted system, and their effect on land pricing, Hedonistic pricing, land price behaviour, Constructing the land price index.
Module 4	Land Utilization & Land Information System (LIS): Types of land utilization and its relevance to planning. Land conversions and its regulation/facilitation in peri-urban areas, Land utilization analysis, Common property and its use, tenancy and ownership, holding size and its relevance, irrigated and non-irrigated and land values. Sources of information for land information; Land records in Rural areas (examples from Karnataka, Andhra, etc), transparency in land transaction, methods of publicizing land prices and land land price monitoring.

REFERENCE BOOKS

1. **"Urban Land Economics"** – Jack Harvey and Ernie Jowsey
(Explores economic principles applied to land use and urban development.)
2. **"Land Use Planning and Development Regulation Law"** – Julian Conrad Juergensmeyer & Thomas E. Roberts
(Covers legal frameworks and tools for land use planning and regulation.)
3. **"Property Valuation: The Five Methods"** – Douglas Scarrett
(Explains core land valuation techniques essential for land market analysis.)
4. **"The Economics of Land Use Planning"** – Tim Jackson
(Discusses land allocation, planning policies, and the impact on land value.)

REFERENCE E- BOOKS & JOURNALS

1. **"Land Economics"** by Richard C. Maloney
Available at: <https://archive.org/details/landeconomics00malo>
2. **Journal of Property Research** – Taylor & Francis
Access: <https://www.tandfonline.com/journals/rppr20>

REFERENCE YOUTUBE LINKS

1. **Understanding Land Markets** – Lincoln Institute of Land Policy
<https://www.youtube.com/watch?v=OjjTla98X0E>
2. **Land Value and Urban Economics** – The B1M
https://www.youtube.com/watch?v=VJ2L3G8g_4E
3. **Land Acquisition and Management in India** – PRS Legislative Research
<https://www.youtube.com/watch?v=5EKZ8Yzzkec>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3251	Transport & Land Use Planning	Practical	1	1	2	3	24	8	8	40	0	60	60	100

SUBJECT OBJECTIVE

1. To understand and analyze the interrelationship between transportation systems and land use patterns for achieving efficient, sustainable, and integrated urban development.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand the mutual influence of land use patterns and transportation networks in urban planning.
2. Analyze spatial and mobility data to propose integrated transport-land use strategies.
3. Develop context-specific planning solutions that promote sustainable urban mobility and efficient land utilization.

MODULE	COURSE TOPICS
Module 1	Importance of Land Use-Transport Integration: Land use and mobility patterns in cities, implications of land use patterns on transport and mobility, land use and transport decisions, need for sustainable development and sustainable transport, Need and benefit of land use transport integration, case cities of land use transport integration. Land use transport integration definition and concept, land use transport cycle. importance of accessibility, factors affecting land use transport integration, tools and land use Transport Integration, key elements of integration. Integration land use and transport in the planning process, Institutional integration and legal mechanism.
Module 2	Land Use-Transport Model: Components of Land use transport model, accessibility concept, measures and quantification Types of land use transport model: Density saturation gradient method. Hansen's accessibility model, intervening opportunity model, Grain Lowry model. Strategic land use transport model
Module 3	Land Use Techniques and Transit Oriented Development (TOD): Local Area Plan, TPS, Transit Oriented Development Definition, concepts and key components, principals of TOD, planning norms and standards of TOD, pre-requisites of TOD, financing TOD role of stakeholder, case studies of TOD. Land Value Capture
Module 4	Case Studies on Land use-Transport Integration: Best practices of Land use transport integration in India and abroad, inter-disciplinary policy issues and public action for guiding land use transport integration.

REFERENCE BOOKS

1. **Meyer, M. D., & Miller, E. J. (2001).** Urban Transportation Planning: A Decision-Oriented Approach. McGraw-Hill.

2. **Vuchic, V. R. (2007).** Urban Transit Systems and Technology. Wiley.
3. **Giuliano, G., & Hanson, S. (Eds.). (2017).** The Geography of Urban Transportation. Guilford Press.
4. **Crane, R., & Chatman, D. G. (2013).** Handbook of Urban and Regional Planning in the Global South. Routledge.

REFERENCE E- BOOKS & JOURNALS

1. **Title:** Transport and Urban Development
Author: David Banister (Ed.)
Link: <https://www.taylorfrancis.com/books/mono/10.4324/9780203475613/transport-urban-development-david-banister>
2. **Title:** Journal of Transport and Land Use
Publisher: Center for Transportation Studies, University of Minnesota
Link: <https://jtlu.org/index.php/jtlu>

REFERENCE YOUTUBE LINKS

1. **Land Use and Transportation Planning – MIT OpenCourseWare**
<https://www.youtube.com/watch?v=yO9CpybMyJ0>
A lecture introducing the integration of transportation systems with land use in urban planning.
2. **Transport and Land Use Planning – World Bank E-Learning Series**
<https://www.youtube.com/watch?v=IbFhYXIRu2M>
Discusses how transport planning influences urban form and accessibility.
3. **Land Use and Transportation – UCLA Institute of Transportation Studies**
<https://www.youtube.com/watch?v=2nNKHQI3rE4>
Focus on transit-oriented development (TOD) and sustainability.
4. **Smart Growth and Transportation – Strong Towns**
<https://www.youtube.com/watch?v=Hnd2zjZ1yaU>
Examines how land use decisions impact mobility and infrastructure costs.
5. **Urban Land Use Planning and Transportation – NPTEL by IIT Kharagpur**
https://www.youtube.com/watch?v=8a7mV-hy_YM
Covers Indian urban context, land use planning, and transportation linkages.

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3252	Planning Design Studio-II	Practical	2	2	12	10	0	0	0	160	0	240	240	400

PLANNING DESIGN STUDIO-2A QUANTITATIVE METHODS

SUBJECT OBJECTIVE

1. To equip students with analytical and statistical tools for informed decision-making and data-driven planning in urban and regional contexts.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand and apply basic statistical and mathematical techniques in planning-related data analysis.
2. Interpret quantitative data using tools like correlation, regression, and probability distributions.
3. Develop data-informed solutions for urban planning problems through modeling and forecasting methods.

MODULE	COURSE TOPICS
Module 1	Introduction to Statistics, Organising Surveys & Data Collections: Statistics, Functions of Statistics. Applications and Limitations of Statistics, Organising a statistical survey Techniques of data collection, choice of frame. Degree of accuracy desired, Design of forms, field investigators, collection of Data Primary and Secondary Data, Drafting the questionnaire, Sources of Secondary data, Editing primary and secondary data., Census of India tables and its usage in planning, CSO/NSSO/NFHS data and its usage in planning, linking Census of India to NSSO tables
Module 2	Sampling, Sample Designs and Classification & Tabulation of Data: Census and Sample Method, Theoretical basis of sampling. Methods of sampling. Size of sample, Classification and Tabulation of data: Meaning and classification of objectives, types of classification, Frequency Distribution, Tabulation of Data. Difference between classification and tabulation, types of tables, soft wares for tabulation
Module 3	Measures of Central Value, Dispersion & Skewness, Moments, Kurtosis: Types of Averages Arithmetic Mean, Median, Mode, Geometric Mean, Harmonic Mean, General limitations of average Measures of Dispersion: Measuring Variation Range, Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variations, Chebyshev's theorem, Lorenz curve Difference between dispersion and skewness, measures of skewness, Moments, Sheppard's correction, Kurtosis

Module 4	Correlation and Causation, types of correlations, Partial and multiple correlation, scattered diagram method. Graphic method, Kar Pearson's coefficient of correlation, Probable Error, Coefficient of Determination, Rank Correlation, Concurrent Deviation method. Regression Regression lines, Regression Equation, Regression equations in case of correlation table, Standard Error of Estimate Time Series Measurement of Trend, Seasonal, cyclical, and irregular variations. Introduction to Interpolation and Extrapolation.
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REFERENCE BOOKS

1. **"Quantitative Techniques for Decision Making"** by **N.D. Vohra** – A widely used text offering insight into operations research and decision-making tools.
2. **"Statistics for Business and Economics"** by **Paul Newbold, William Carlson, and Betty Thorne** – Covers foundational statistical concepts with real-world applications.
3. **"Mathematical Statistics with Applications"** by **Dennis Wackerly, William Mendenhall, and Richard L. Scheaffer** – An in-depth resource on probability and statistical inference.
4. **"Quantitative Techniques in Management"** by **R. Panneerselvam** – Focuses on analytical techniques relevant to management and planning decisions.

REFERENCE E- BOOKS & JOURNALS

1. **E-Book:** *Quantitative Techniques* by P.C. Tulsian
https://books.google.com/books/about/Quantitative_Techniques.html?id=tb6_mwEACAAJ
2. **Journal:** *Journal of Quantitative Economics*
<https://link.springer.com/journal/40953>

REFERENCE YOUTUBE LINKS

1. **Introduction to Quantitative Techniques** –
<https://www.youtube.com/watch?v=MYayMAA9j0Q>
2. **Statistics for Beginners | Full Course** –
<https://www.youtube.com/watch?v=Vfo5le26lhY>
3. **Quantitative Methods for Decision Making** –
<https://www.youtube.com/watch?v=1MBZCZ3sA7I>
4. **Probability & Statistics - Complete Course** –
<https://www.youtube.com/watch?v=V6yixyiJcos>
5. **Linear Programming – Graphical Method** –
<https://www.youtube.com/watch?v=fIYH9mMIKpA>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3252	Planning Design Studio-II	Practical	2	2	12	10	0	0	0	160	0	240	240	400

PLANNING DESIGN STUDIO-2B MASTER PLAN

SUBJECT OBJECTIVE

1. To equip students with practical skills and theoretical understanding required to formulate comprehensive and integrated master plans for urban and regional areas.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Develop the ability to analyze urban systems and spatial structures for effective master plan preparation.
2. Apply planning tools, techniques, and statutory frameworks in the formulation of master plans.
3. Demonstrate the capacity to create context-sensitive and implementable proposals for sustainable urban development.

MODULE	COURSE TOPICS
Module 1	The purpose of the study is to prepare a master plan of that town which aims at improving the urban environment Students shall be required to prepare master plan for the urban area studied in "Study of Town" The scope of master plan preparation will includes working out the detailed requirements, formulation goals, objectives and policies, planning considerations, conceptual framework, planning proposals including zoning and phasing. and implementation strategy covering organizational and financial aspects.

REFERENCE BOOKS

1. "Urban and Regional Planning" by Peter Hall
2. "The Urban Pattern: City Planning and Design" by Arthur B. Gallion and Simon Eisner
3. "Town Planning in Practice" by Raymond Unwin
4. "Planning the Megacity: Jakarta in the Twentieth Century" by Christopher Silver

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Urban and Regional Planning* by Peter Hall
https://books.google.com/books/about/Urban_and_Regional_Planning.html?id=FQ0LBAAAQBAJ
2. **Title:** *Journal of the American Planning Association (JAPA)*
<https://www.tandfonline.com/toc/rjpa20/current>

REFERENCE YOUTUBE LINKS

1. **"Master Planning Explained | Urban Design" – The B1M**
<https://www.youtube.com/watch?v=OPz8yVuEkS8>
2. **"What is a Master Plan? | Urban Planning" – Planning Tank**
<https://www.youtube.com/watch?v=4npsHjXXWBA>
3. **"Master Planning Process – A Case Study" – UDA (Urban Design Associates)**
<https://www.youtube.com/watch?v=n0IQb-nhmvU>
4. **"Introduction to Urban and Master Planning" – NPTEL (IIT Kharagpur)**
https://www.youtube.com/watch?v=5DixPA_eI6E
5. **"Smart City Master Planning | Auroville" – Auroville Consulting**
<https://www.youtube.com/watch?v=kp-PN6-8zWY>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3253 (1)	Elective-II (Politics & Public Policy)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To provide an in-depth study of the various approaches for policy formulation, implementation, and evaluation.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn about the policies formulation and implementation in planning.
2. Focus on Principles of public participation in policy making.
3. Understand about participatory monitoring and evaluation.

MODULE	COURSE TOPICS
Module 1	Political culture of Indian State, State and local political economy, emergence of state in the federal set up; politics of the state and bureaucracy, politics and emergence of civil society; regeneration and redevelopment politics; property rights, norms and standards, government market and market by government; regulatory state, reforming state, rent seeking state and their special implications. land use politics, politics of provision of housing in urban and rural areas, infrastructure; decision making, decision-taking process; financing and pricing, Case studies from India and abroad on planning and political decisions in their impact on rural and urban development; examples from South Korea; conversion of rural land to urban land, FSI changes and resultant changes in land use and form: China, USA and other countries
Module 2	Nature of public problems, planning as a public issue- policy analysis and process; six steps in policy analysis: how are policies made, who influences the policy agenda and what issues affect policy's 'successes and 'failure'? What can we learn from how different countries approach similar policy problems? Theoretical frameworks, the role of institutions in the policy process and the motivation of policy actors; classical rational problem-solving model; limitations in public sector and the private sector; establishing analysis
Module 3	Overview of policy process models; policy initiations; multi-stream approaches, policy implementation analysis, life-course approach to policy analysis, case studies in policy planning analysis, policy integration, possible areas of integration in planning; differences between strategic planning management in public and private sectors, mission statements and goal setting techniques, strategic decisions

	and evaluation, strategic leadership, coordination and networks, crisis management, transformational strategic management
Module 4	How are new information and communication technologies shaping public service delivery? E-governance, e-panchayats, e-markets etc.; transparency, accountability, accessibility, participatory mechanisms; trends and pressures that effect public service organizations, market-based arrangements, Multi-service provider arrangements in public sector setting, benchmarks in policy management, land, environment, health, water and other policies- integration and disintegration of policies- frequency and commitments to change; global commitments; MDG, environment etc. and its commitments at the national, state and local level, land policy; interest groups, acts/ agents and policy making process

REFERENCE BOOKS

1. "Urban policy and practice", Tim Blackman, Routledge.
2. "Public Policy: Art and craft of policy analysis", R.K. Sapru, PHI Learning Pvt. Ltd, New Delhi.
3. "Public Policy Analysis", William N. Dunn, Pearson Edition.
4. "Public Policy, Analysis and Design", VK Agnihotri, Concept Publishing.

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Public Policy: Politics, Analysis, and Alternatives*
Authors: Michael E. Kraft & Scott R. Furlong
2. **Title:** *Journal of Public Policy* – Cambridge University Press
Link: <https://www.cambridge.org/core/journals/journal-of-public-policy>

REFERENCE YOUTUBE LINKS

1. **What is Public Policy? | Introduction to Public Policy**
By: Prof. Michael Sandel (Harvard) – Edutopia-style summary
[Watch here](#)
2. **Public Policy and Its Role in Government**
By: Study.com
[Watch here](#)
3. **Public Policy Explained | Policy Cycle & Types of Policies**
By: Learn with Nikhil
[Watch here](#)
4. **Politics and Policy-Making in India: Urban Governance Challenges**
By: Centre for Policy Research India
[Watch here](#)
5. **The Policy Process | How Public Policies Are Formed**
By: Simplilearn
[Watch here](#)

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3253 (2)	Elective-II (Resettlement & Rehabilitation)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To provide an in-depth study of the various approaches for policy formulation, implementation and evaluation of resettlement and rehabilitation processes

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn about the fiscal and financial background and funding.
2. Tools and techniques used by local government in financing and funding.
3. Understanding of public policy framework and strategies

MODULE	COURSE TOPICS
Module 1	Land acquisition models and practices in India and elsewhere for projects, compulsory acquisition, land sharing and adjustment models, land pooling, negotiated land acquisition, development induced relocation- voluntary and involuntary resettlement, resettlement and rehabilitation policies, policies of multi-lateral/ bilateral funding institutions, World Bank, Asian Development Bank Policies, National Policy on resettlement and rehabilitation and state policies on R and R and sector specific policies in large projects such as multi-purpose dam projects, mining projects, highway projects, SEZ, etc.
Module 2	Poverty and social impact assessment for development project; linear projects (roads, railways etc.), vis-à-vis non-linear projects (township/ industrial area development, dams, forests), impact on vulnerable and indigenous groups; project affected people and project affected assets, impact on women and children, gender action plans, resettlement plan; context, content, structure, principles, and practices; economic, social and physical implications of resettlement, rehabilitation; Case studies in resettlement and rehabilitation in development sectors, mining, highways, power, industrial and township development; flood affected areas and other infrastructure projects such as Mumbai Transport Project
Module 3	Policies, assessing the livelihood losses, livelihood impact assessment and skill mapping surveys, income restoration strategies, training strategy for skill upgradation and meeting demands for shifting economic profiles in the development areas. Use of participatory tools for resettlement planning, institutional arrangements for R and R- role of NGOs/ CBOs and other local, state, national and international organizations in resettlement and rehabilitation; monitoring and evaluation of R and R intervention

REFERENCE BOOKS

1. Development-induced Displacement, Rehabilitation and Resettlement in India Current Issues and Challenges, Sakarama Somayaji, Smrithi Talwar.
2. Development, Displacement, and Resettlement, Rawat Publications, Manish Kumar verma.
3. National Rehabilitation & Resettlement Policy, 2007.pdf
4. Resettlement and Rehabilitation: Indian Scenario, Clare Lizamit Samling (Centre for Environment & Development), Asish K. Ghosh (Centre for Environment & Development), Sugata Hazar (Jadavpur University)

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Development-Induced Displacement: Problems, Policies and People*
Author: Hari Mohan Mathur
2. **Title:** *Resettlement and Rehabilitation: A Framework for Policy Formulation in India*
Journal: Economic and Political Weekly (EPW)

REFERENCE YOUTUBE LINKS

1. [Resettlement and Rehabilitation | Explained in Hindi | UGC NET Paper 1](#)
(By: Study Smart - Useful for understanding basics of R&R policies in India)
2. [Resettlement and Rehabilitation in Development Projects](#)
(By: Dr. K. Ayyappan - Academic lecture on types, challenges, and case studies)
3. [Development-Induced Displacement: Human Rights Concerns](#)
(By: World Bank / Research Channel – Discusses displacement impacts & global frameworks)
4. [Land Acquisition, Resettlement and Rehabilitation Act, 2013 | Law Explained](#)
(By: LegalEdge | Hindi Explanation of the Indian legal framework on R&R)
5. [Case Study: Polavaram Dam and R&R Issues](#)
(By: The Lallantop | Documentary-style insight into a real R&R scenario in India)

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3301	Research Methodology	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To train students in research design and report writing methods.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn its importance, purpose, and scope in the professional and academic field.
2. Study the different types of research techniques and process.
3. Get skilled in writing thesis, project, and master plan reports.

MODULE	COURSE TOPICS
Module 1	Definition and needs of research, Types of research used in urban planning, Importance of research methodology in urban planning, Scientific research and methods, System approach of research, Levels of research micro and macro, Major steps in the conduct scientific research, induction, deduction & verification, Selection and formulation of research problems, Difference between research methodology and research methods, Data types and sources: primary and secondary, Sampling types and techniques.
Module 2	Research paradigm and procedural methods theoretical meaning, importance and different concept of hypothesis, Formulation of hypothesis, Role of statistical measures in hypothesis testing, Measures of central tendencies, standard deviation and correlation and regression, Qualitative scales.
Module 3	Qualitative and quantitative approach to research: review of literature, content analysis and thematic analysis, Research compilation and report contents and style, factors in the organization of a research report, writing of foot notes, quoting styles, references, cross referencing and bibliography; Issues & areas of urban planning research and data, Introduction of Qualitative and Quantitative software.
Module 4	Definition of Concept, Theory and facts, Process of theorization. Meaning definition and classification of Model, Understanding, evaluation and validation of models related to land use, transportation, location/allocation of activities, land value, accessibility, simulation of urban growth in terms of their objectives, theoretical structure, mathematical formulation, applications and limitations; Validation of Research and its presentation techniques.

REFERENCE BOOKS

1. Knight, A. and Ruddock, L., "Advanced Research Methods in Built Environment", John Wiley & Sons. 2008
2. Groat, L. and Wang D., "Architectural Research Methods", John Wiley & Sons. 2002
3. Gibbs, J.P., "Urban Research Methods", (rev.ed.) Von Nostrand. 1988
4. Khanzode, V.V., "Research Methodology -Techniques and Trends", APH Publishing. 1995

Kothari, C.R., “Research Methodology- Methods and Techniques”, New Age International. 2004

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Research Methodology: Methods and Techniques*
Author: C.R. Kothari & Gaurav Garg
https://books.google.co.in/books/about/Research_Methodology.html?id=8YDNqTPuYgIC
2. **Journal:** *International Journal of Social Research Methodology*
Publisher: Taylor & Francis
<https://www.tandfonline.com/journals/tsrm20>

REFERENCE YOUTUBE LINKS

1. **Research Methodology - Full Course (Simplified) by Sourav Sir's Classes**
[Watch on YouTube](#)
2. **Research Methodology | Introduction | Basic Concepts by UGC NTA NET JRF**
[Watch on YouTube](#)
3. **Types of Research | Research Methodology Lectures by StudyIQ Education**
[Watch on YouTube](#)
4. **Sampling Techniques in Research Methodology | Beginners' Guide by LetsTute**
[Watch on YouTube](#)
5. **Research Design Types Explained | Research Methodology by Academic Gain Tutorials**
[Watch on YouTube](#)

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3302	Sustainable Planning & Development	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand the need and principles of sustainable planning with its management in urban planning

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand Principle of Sustainable Planning.
2. Learn the basic concepts and definitions of Climate Change.
3. Focus on application of Ecological Principles in Sustainability.
4. Study Low Carbon Urban Development.

MODULE	COURSE TOPICS
Module 1	Sustainable Development- Definitions, Concepts and Parameters; Eco-City Approach; Kyoto Protocol, Intergovernmental Panel on Climate Change (IPCC), United Nations Framework Convention on Climate Change; Indian Network of Climate Change Assessment, Global Environment Facility, and Clean Development Mechanism; UNHABITAT policies, Sustainable Development Goals, New Urban Agenda, Sustainable Cities Programme (UNEP and UN-Habitat), Localizing Agenda 21 (UN-Habitat). Concept of sustainable planning, Three pillars of sustainability and its implication in planning process; Environmental preservation; commerce and liveability; Walkability and Connectivity; Integration of diverse community features;
Module 2	Natural drainage and water bodies; Application of Ecological Principles in Sustainability; Carrying Capacity Based Planning- Concept, Parameters and Indicator Measures; Models and Case Studies in Urban and Regional Development Basic concepts and definitions of Climate Change; Urban Heat Islands; Climatic Change and Human History; Impacts of Climate Change; Climate as Forcing Variable, Locational Attributes, Sensitivity and Vulnerability of Different Sectors;
Module 3	Low carbon urban development strategies- concept of 3-Rs: “Recycle-Reuse and Recovery”; Low carbon transport modes and mobility options; Land Capability and Suitability Analysis; Use of Non-Conventional Energy Sources; Urban Water Treatment, Recycling and Harvesting; Pollution Control Measures for Industrial Wastes, Hazardous Wastes, Biomedical Wastes, Domestic Wastewater, Air Pollutants and Noise.

REFERENCE BOOKS

1. Robert Riddell, “Sustainable Urban Planning”, Wiley Publishers, 2004
2. Karen Chapple, “Planning Sustainable Cities and Regions Towards More Equitable

- Development", Routledge, 2015
3. Joy Sen, "Sustainable Urban planning in India", The Energy and Resource Institute, 2013.

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Sustainable Urban Development Reader*
Authors: Stephen Wheeler & Timothy Beatley
Access Link: <https://www.routledge.com/Sustainable-Urban-Development-Reader/Wheeler-Beatley/p/book/9780367332035>
2. **Title:** *Journal of Urban Planning and Development* – ASCE
Access Link: <https://ascelibrary.org/journal/jupddm>

REFERENCE YOUTUBE LINKS

1. "Sustainable Urban Development | UN-Habitat"
<https://www.youtube.com/watch?v=ZbltFvQ-EyM>
2. "What is Sustainable Urban Planning?"
Channel: Buro Happold
<https://www.youtube.com/watch?v=FQ2B5n9TLpA>
3. "Principles of Sustainable Development"
Channel: MIT OpenCourseWare
<https://www.youtube.com/watch?v=ViY8YzvK4Vo>
4. "Smart Cities and Sustainable Urban Development"
Channel: World Economic Forum
<https://www.youtube.com/watch?v=9vQ8MjfkQkQ>
5. "Introduction to Sustainable Development"
Channel: The SDG Academy
<https://www.youtube.com/watch?v=7V8oFI4GYMY>
6. "Sustainable Urban Development | UN-Habitat"
Channel: UN-Habitat
<https://www.youtube.com/watch?v=ZbltFvQ-EyM>
7. "What is Sustainable Urban Planning?"
Channel: Buro Happold
<https://www.youtube.com/watch?v=FQ2B5n9TLpA>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Minor	MPL3303	Project Planning & Management	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To provide a brief introduction to general issues of project management & sights into problem solving and persuasive presentation of solutions.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn about process of Project Formulation and constraints
2. Focus on Project financing need assessment.
3. Get aware how people work as team members and as individuals.
4. Get Details of Project Evaluation- Methods

MODULE	COURSE TOPICS
Module 1	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. Introduction to Project Appraisal - Types of Feasibility, Financial and Economic Appraisals, Project Financial Appraisal Techniques; Market Analysis - survey methods, market characterization, demand forecasting; Technical analysis- materials, equipment, factors of production availability, implementation schedule, suitability of the plans, layout and design; estimation of casting of components; social cost benefit analysis.
Module 2	Introduction to Project Planning- Process, Investment Phase; Project Work (Work Breakdown Structure), Manpower and Organisation, Project Finance, Information System; Process of Project Formulation and constraints; Sensitivity Analysis; Project Budgeting. Project Scheduling - definition and steps; Critical Path and Slack; PERT; concept of Gantt Chart
Module 3	Project financing need assessment; sources of funds; disposition of funds, planning for project financing. Project Monitoring and criteria for decision making; Parameters and Tools of Control; Use of Network Analysis in Project Monitoring; Reporting and Corrective Actions; Resource Management and Project Reporting Project Evaluation- Methods, tools, time frame and results; Project Cash Flows; Project Benefits; Financial Closure, Presentation of evaluation findings

REFERENCE BOOKS

1. Goodman, Louis T.; Love; Ralph N.; Project Planning and Management: an integrated approach; Pergamon Press, NY 1980
2. Klein Hartmut; Basic Project Planning; Uppal Publishing, New Delhi 1981
3. Jain D. K.; Project planning and appraisal in planned economy the Indian context; New Delhi, Uppal Publishing, 1981
4. Little, I.M.D.; Merles, J.A.; Project appraisal and planning for developing countries; London, Heinemann Educational Books 1974

REFERENCE E- BOOKS & JOURNALS

1. "Project Management: A Systems Approach to Planning, Scheduling, and Controlling" by **Harold Kerzner**
https://books.google.com/books/about/Project_Management.html?id=pjz3BwAAQBAJ
2. International Journal of Project Management – **Published by Elsevier**
<https://www.journals.elsevier.com/international-journal-of-project-management>

REFERENCE YOUTUBE LINKS

1. "Project Management Simplified" – Project Management Institute
<https://www.youtube.com/watch?v=AB9c1v0E7II>
2. "Project Planning in 5 Simple Steps" – ProjectManager.com
<https://www.youtube.com/watch?v=XYRFehdP4UQ>
3. "Introduction to Project Management" – MIT OpenCourseWare
<https://www.youtube.com/watch?v=0yt1XsMxfyE>
4. "Project Management Full Course - Learn Project Management in 8 Hours" – Edureka
<https://www.youtube.com/watch?v=4sU1sYy3Srk>
5. "Construction Project Management Explained" – The B1M
<https://www.youtube.com/watch?v=SrJoD3B2Zc8>
6. "Project Management Simplified" – Project Management Institute
<https://www.youtube.com/watch?v=AB9c1v0E7II>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3304	Urban Development & Governance	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To apprise the students of the local governance at sub provincial level and resource mapping of local governments with special emphasis on municipal governments in our country.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand application of management techniques in urban planning and development.
2. Learn land development methods.
3. Focus on Definition, concepts, and components of Urban Governance.

MODULE	COURSE TOPICS
Module 1	Type of institutions, their role and relevance (legal, political, social, cultural and economic institutions), formal and informal institutions and spaces- their interface, conflicts, reach and their effectiveness in planning; analysing the institution; methods, process and evaluation; role of the state in planning; market facilitative, regulatory and monopoly power
Module 2	Formal and informal institutions such as constitutions, electoral rules, property rights and civil rights. How and why people in different groups, countries and cultural context of institutions to facilitate collective action. Whether different groups construct distinctly different institutions to deal with similar problems and why similar institutions seem to work differently in different distinct societies; different between organizations and institutions, government and governance; organizations: types, concepts, theories, structure and functions: approaches to understanding organizations. Institutional building: factors and processes, institution process and networks- how the network operates; present organizations dealing with urban and regional planning. Post 73rd and 74th constitution amendment act, environment and the modified role and functions of local bodies, local authorities, district authorities and state level agencies; case studies
Module 3	Development planning and Indian state- centralization, powerlessness, decentralization; the institutional frame and mechanism for urban governance as envisage in 73rd and 74th constitution amendment act, transfer of power from centre to state and state to local government, role of the existing planning and development agencies in various states in the light of constitution amendment act; role of various institutions in the governance process and access to government by various stakeholders

Module 4	Role of the state in relation to other stakeholders (NGOs, private sector. Scientific network and international institutions), new state spaces. Changing role of the state- emergence of middle class and its socio-political space, collective bargaining, and collective action; role of donor agencies; advanced locality management, resident welfare associations and other agencies in the governance system. Role of people's participation in planning process: process of inclusion and exclusion in governance.
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REFERENCE BOOKS

1. A.R Tyagi, Public Administration, Typographer Printer, 1985
2. W.R. Derrick Sewell, Public Participation in Planning, Johnwillyand Sons Publications, 1977
3. B.N.P. Singh, Programs, and policies of planning in India, Deep and Deep Publication, 1991
4. Bardhan; Mookherjee, Dilipeds, Decentralization and local governance in developing countries, Oxford University Press, 2007

REFERENCE E- BOOKS & JOURNALS

1. "Urban Governance in the Realm of Complexity" by Meine Pieter van Dijk
<https://link.springer.com/book/10.1007/978-3-030-14625-9>
2. Urban Studies Journal – Sage Publications
<https://journals.sagepub.com/home/usj>

REFERENCE YOUTUBE LINKS

1. "What is Urban Governance?" – UN-Habitat
<https://www.youtube.com/watch?v=el5uHqvQFZk>
An overview by UN-Habitat explaining principles of urban governance and why it matters.
2. "Smart Cities and Urban Governance" – World Bank Group
<https://www.youtube.com/watch?v=ENnLGwf3h1A>
How smart city initiatives intersect with transparent governance.
3. "Urban Planning and Governance: Challenges and Innovations" – NIUA India
https://www.youtube.com/watch?v=Jz_7Pa0gqqk
Discussion on governance frameworks and urban planning in India.
4. "Good Governance for Sustainable Urban Development" – GIZ India
<https://www.youtube.com/watch?v=4sO-pnb8Wq0>
Highlights governance tools for sustainable development in Indian cities.
5. "Urban Governance: A Participatory Approach" – TEDx Talks (Jorge JUSDADO)
https://www.youtube.com/watch?v=05TYnMZk_ZQ
A talk emphasizing community-led governance models.

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3351	Internship	Practical	1	1	2	3	24	8	8	40	0	60	60	100

SUBJECT OBJECTIVE

1. To appraise with the techniques in profession and in research through experience and illustrations.

DETAILS OF COURSE:

Contents:

- Students are required to complete with the requirements and align with the instructions in the training approved by the Department Faculty Board of four to six weeks.
- Students to present their professional training completed in the previous semester under the supervision of professional planning or research or likewise organization. The focus shall be on contributions and the lessons received in the course of professional training.
- Research study and documentation work from the offices

APPROACH:

1. A student for M.Plan degree program shall undertake a research/project dissertation work under the guidance of a teacher of the Discipline. Supervision shall also be allowed from professionals from any recognized Research Institutes/Organizations.
2. A Co-supervisor from within or outside the department / institute may be appointed, if necessary.
3. Professional communication skill shall be evaluated periodically through communication skill by judgment at the time of presentation by the concerned student.

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3352	Planning Design Studio-III	Practical	2	2	12	10	0	0	0	160	0	240	240	400

PLANNING DESIGN STUDIO-3A THESIS PRELIMINARIES

SUBJECT OBJECTIVE

1. To equip students with the foundational knowledge, research skills, and methodological tools necessary to define, structure, and initiate an independent research thesis relevant to urban planning issues.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Understand and formulate a clear and feasible research problem within the urban planning context.
2. Demonstrate the ability to conduct a literature review and identify research gaps.
3. Develop a coherent research framework including objectives, methodology, and expected outcomes.

MODULE	COURSE TOPICS
Module 1	Students undertake independent study/research to explore and develop an area of his/her own choice. It should cover identification of thesis topic after scanning later literature and identifying gaps, typology of research, Methods of research, time scheduling, preparation of samples, questionnaires/interview schedules, identifying stakeholders/sample, area/case study, and preparation of organizing the interview/notes, report, and abstract for canvassing during interviews. The theme of the thesis should adopt a fresh approach in formulating a concept of developing an effective and useful methodology. Each student shall prepare a thesis abstract on a selected topic under the supervision of a supervisor. At the end of the thesis preliminaries, the students are required to submit a hard copy of the abstract

REFERENCE BOOKS

1. **Creswell, J.W. (2014)** – Research Design: Qualitative, Quantitative, and Mixed Methods Approaches
2. **Gomez, B. & Jones, J.P. (2010)** – Research Methods in Geography: A Critical Introduction
3. **Kumar, R. (2019)** – Research Methodology: A Step-by-Step Guide for Beginners
4. **Watson, V. & Agbola, B. (Eds.) (2013)** – Urban Planning in the Global South: Conflicting Rationalities

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Research Methodology: A Step-by-Step Guide for Beginners*
Author: Ranjit Kumar
Link: <https://archive.org/details/ResearchMethodologyRanjitKumar>
2. **Journal Name:** *Journal of Planning Education and Research (JPER)*
Link: <https://journals.sagepub.com/home/jpe>

REFERENCE YOUTUBE LINKS

1. **Urban Planning Thesis Tips | How to Choose a Topic**
<https://www.youtube.com/watch?v=msV8l6NHNwE>
2. **How to Write a Research Proposal | Urban Studies & Planning**
<https://www.youtube.com/watch?v=XW0QZmtbjvs>
3. **Introduction to Research Methodology in Urban Planning**
(MIT OpenCourseWare)
<https://www.youtube.com/watch?v=3KquFZYi6L0>
4. **Qualitative vs Quantitative Research in Planning**
<https://www.youtube.com/watch?v=2X-QSU6-hPU>
5. **Thesis Writing Process Explained | Urban & Regional Planning**
<https://www.youtube.com/watch?v=y7hKqKi1Lk8>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3352	Planning Design Studio-III	Practical	2	2	12	10	0	0	0	160	0	240	240	400

**PLANNING DESIGN STUDIO-3B
MASTER PLAN FOR METRO REGION**

SUBJECT OBJECTIVE

1. To equip students with practical skills and theoretical understanding required to formulate comprehensive and integrated master plans for urban and regional areas.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Develop the ability to analyze urban systems and spatial structures for effective master plan preparation.
2. Apply planning tools, techniques, and statutory frameworks in the formulation of master plans.
3. Demonstrate the capacity to create context-sensitive and implementable proposals for sustainable urban development.

MODULE	COURSE TOPICS
Module 1	Preparation of Master Plan for Metropolitan Region: interlinks between core and periphery, sectoral links, resource flows, land use plan implementation, Source of funding the plan project identification for steering future development, phasing, Evaluation Plan, and spatial budgeting. Course Outcome: Upon the completion of this course, the students will be able to analyze the existing baseline situations of the metropolitan region and identify sectorial issues and challenges of development.to carry out forecast, build future scenarios for Metropolitan Region Plan and detail out the plan proposals.

REFERENCE BOOKS

1. "Urban and Regional Planning" by Peter Hall
2. "The Urban Pattern: City Planning and Design" by Arthur B. Gallion and Simon Eisner
3. "Town Planning in Practice" by Raymond Unwin
4. "Planning the Megacity: Jakarta in the Twentieth Century" by Christopher Silver

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Urban and Regional Planning* by Peter Hall
https://books.google.com/books/about/Urban_and_Regional_Planning.html?id=FQ0LBAAQBAJ
2. **Title:** *Journal of the American Planning Association (JAPA)*
<https://www.tandfonline.com/toc/rjpa20/current>

REFERENCE YOUTUBE LINKS

1. **"Master Planning Explained | Urban Design" – The B1M**
<https://www.youtube.com/watch?v=OPz8yVuEkS8>
2. **"What is a Master Plan? | Urban Planning" – Planning Tank**
<https://www.youtube.com/watch?v=4npsHjXXWBA>
3. **"Master Planning Process – A Case Study" – UDA (Urban Design Associates)**
<https://www.youtube.com/watch?v=n0IQb-nhnvU>
4. **"Introduction to Urban and Master Planning" – NPTEL (IIT Kharagpur)**
https://www.youtube.com/watch?v=5DixPA_eI6E
5. **"Smart City Master Planning | Auroville" – Auroville Consulting**
<https://www.youtube.com/watch?v=kp-PN6-8zWY>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3353 (1)	Elective-III (Urban Heritage Conservation)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To impart knowledge on various methods and techniques of conservation of urban heritage buildings, heritage zones.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Learn Built heritage conservation of towns & cities.
2. Focus on Natural heritage conservation.
3. Understand Acts and laws recognizing conservation/regeneration.
4. Emphasize on Concept of Historic Urban Landscapes

MODULE	COURSE TOPICS
Module 1	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.
Module 2	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 3	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.
Module 4	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 .

REFERENCE BOOKS

1. Management of historic centres / edited by Robert Pickard. London; New York: Spon Press,
2. Historic cities and sacred sites: cultural roots for urban futures / Ismail Serageldin, Ephim Slugger, Joan Martin-Brown, editors Washington, D.C.: World Bank, 2001
3. Lichfield, Nathaniel. Economics in Urban Conservation. Cambridge University Press
4. Cohen, Naoum. Urban Conservation. MIT Press

REFERENCE E- BOOKS & JOURNALS

1. **Title:** The Conservation of Cultural Landscapes
Author: Mauro Agnoletti
2. **Title:** Urban Heritage Conservation and the Role of Historic Urban Landscapes: A Case Study of HUL Approach in India
Journal: International Journal of Heritage Studies, Taylor & Francis

REFERENCE YOUTUBE LINKS

1. **"Historic Urban Landscapes: Managing Change" – UNESCO**
Covers the HUL (Historic Urban Landscape) approach and urban heritage integration into planning.
[Watch here](#)
2. **"Conserving Urban Heritage | INTACH Webinar Series" – INTACH**
A webinar on urban conservation practices, policy frameworks, and case studies in India.
[Watch here](#)
3. **"Urban Heritage Conservation in India: Challenges and Strategies" – CEPT Research Symposium**
A detailed academic presentation on Indian urban heritage conservation.
[Watch here](#)
4. **"Architecture & Urban Heritage: Conservation Conversations" – School of Planning and Architecture Bhopal**
Discusses architecture-led conservation and participatory methods.
[Watch here](#)
5. **"Cultural Heritage in Cities | Global Platform for Sustainable Cities (World Bank)"**
Explores the importance of preserving cultural assets in sustainable city development.
[Watch here](#)

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	MPL3353 (2)	Elective-III (Inclusive Planning)	Practical	1	1	0	2	0	0	0	50	0	0	50	100

SUBJECT OBJECTIVE

1. To understand the basic concepts of regions, regional development issues, various theories and methods, and overall process of regional planning.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

1. Study the aggregate growth model from inside and outside, economic models industries.
2. Learn polarization effects and agglomeration economies.
3. Understand Comprehensive regional planning with context to Indian case studies.

MODULE	COURSE TOPICS
Module 1	Definition and delineation of region, need for regional planning. Regional long run growth, aggregate growth models, growth from inside and outside, economic models, industrial structure analysis. Economics of regional development; creative economy, regional analysis; Five-year plans and their impacts in urban/rural system
Module 2	Regional inequality: Regional imbalance and inequalities in India, development of backward areas, decentralized planning; Multilevel planning. Location analysis, leading industries and propulsive firms, polarization effects and agglomeration economies, network analysis, spread effects, and backwash effects
Module 3	Planning in India an overview; Development Programs in urban and rural systems; Case Studies. City and metropolitan planning, trends in urban growth and urbanization in India, Comprehensive regional planning, Case studies
Module 4	Inclusive city planning- Need, concept and pre-requisites, Affordable housing; resilient and sustainable urban form; social and economic development; key principles- Sustainability and Resilience, Accessibility, Diversity, Open Spaces, Compatibility, Incentives, Adaptability and Identity
Module 5	Management of inclusive cities- need and approaches- Inclusive zoning, development and building regulations, slum improvement; related acts; five year plans, policies and programmes.

Module 6	Policies for inclusive city planning; Best practices of inclusive Planning in India and abroad- planning approach, procedures and impacts, inter-disciplinary policy issues, public action and participation for guiding inclusive planning in cities.
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REFERENCE BOOKS

1. Unaeghu, G. C., “Issues in Urban and Regional Planning”, Washington House. 2005.
2. Glasson, J., “An Introduction to Regional Planning” Rev. Ed. Routledge. 1995.
3. Calthorpe P. and Fulton, W.B., “The Regional City: Planning for the End of Sprawl”, Island Press.
4. Hall, P., “Urban and Regional Planning”, 4th Ed. Routledge. 2002
5. Regional Plan-2021-NCR/11th Five Year Plan, Govt. of India. 2007
6. Urban and Regional Development Plans Formulation and Implementation” (URDPFI) Guidelines, ITPI Publication. (draft) 2014

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Inclusive Urban Planning: State of the Urban Poor Report 2013*
Published by: Ministry of Housing and Urban Poverty Alleviation, Government of India
2. **Title:** *Inclusion in Urban Planning: A Review of Conceptual and Practical Approaches*
Author: Jennifer Kent & Susan Thompson

REFERENCE YOUTUBE LINKS

1. **Inclusive Cities – The Need for Inclusion in Urban Planning**
[UN-Habitat: Inclusive Cities for All](#)
By UN-Habitat – explains inclusive planning concepts with global examples.
2. **Inclusive Urban Development in India**
[Inclusive Urbanization | IHS Alumni Talk](#)
Talk on inclusive cities and policy measures from Indian and global perspectives.
3. **How to Build Inclusive Cities**
[The Rockefeller Foundation – Resilient Cities](#)
Describes tools for inclusive, equitable, and resilient urban planning.
4. **Planning for Inclusivity in Cities – Lecture**
[IIHS Bangalore – Urban Lectures](#)
Academic session discussing the role of inclusive planning in Indian cities.
5. **Accessibility & Inclusive Design in Urban Environments**
[World Bank Group: Accessibility Matters](#)
Focus on inclusive infrastructure and design for persons with disabilities.

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
Major	MPL3401	Planning legislation & professional practice	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To understand legislation and its implementation applicable to urban and rural planning and development.

LEARNING OUTCOME

Upon successful completion of the course the students will be able to:

4. Study the Significance and Objectives of Legislation.
5. Focus on Evolution of Planning Legislation in India.
6. Identify Professional Activities and Responsibilities.

MODULE	COURSE TOPICS
Module 1	Significance and Objectives of Legislation; Constitutional basis and provisions relating to land, its development and use. Evolution of Planning Legislation in India; Types and description of various Acts- Town and Country Planning Acts, Improvement Trust Act, Urban Planning & Development Authorities Act- objectives, contents, master plans and town planning schemes; Various Acts related to urban governance; land resources, environment protection, public participation in statutory process.
Module 2	Town & Country Planning Organization, Urban Development Departments, City Improvement Trust, Development Authorities. Municipal Corporation etc. Objectives, functions and duties, organisational structure, technical capacity, statutory obligations, budgetary outlays. Role of interdisciplinary groups; Appreciation of the decision-making processes, process in relation to varied consultancy assignments of planning.
Module 3	Aims and objectives of professional institute and bodies in planning; professional roles and responsibilities of planning consultants; professional ethics; responsibilities towards clients, fellow professionals and general public; Scope of services for different projects; Consultancy agreements and safeguards. Fees and scales of professional charges; negotiation, liability, code of conduct, arbitration
Module 4	Project context; Project rationale and objectives; Bid documents, Tenders, Contracts; Implementation approaches and methods, Work plan, Budget, Assumptions, risks, and sustainability; Implementation arrangements. Organizational structure and stakeholder involvement mechanisms reporting, review, monitoring and evaluation; Dissemination and mainstreaming of project learning.

REFERENCE BOOKS

1. Building Byelaws of various states, master plan reports of various cities
2. Constitutional Amendment 73rd and 74th of 1992, Deptt. of Publications, GOI
3. The Delhi Laws (Special Provision) Act, 2006.
4. The Karnataka Urban Development Authorities Act, 1987

REFERENCE E- BOOKS & JOURNALS

1. **Title:** *Professional Practice*
Author: Roshan Namavaty
Publisher: CBS Publishers & Distributors
Link: <https://archive.org/details/ProfessionalPracticeRoshanNamavaty>
2. **Title:** *The Role of Professional Ethics in Architecture and Urban Planning*
Journal: *International Journal of Law and Management*
Link: <https://www.emerald.com/insight/content/doi/10.1108/IJLMA-03-2019-0055/full/html>

REFERENCE YOUTUBE LINKS

1. **Professional Practice in Urban and Regional Planning**
NIUA Webinar Series
<https://www.youtube.com/watch?v=yURgMpU2wAE>
(Covers roles, responsibilities, and ethics of urban planners in India.)
2. **Legal Frameworks in Urban Planning – Town and Country Planning Act**
CEPT University Lecture Series
<https://www.youtube.com/watch?v=chz26AvDbeQ>
(Explains legislation relevant to urban planning such as TCPA, DCR, and MRTP Act.)
3. **Planning Laws and Professional Ethics – SPA Delhi**
<https://www.youtube.com/watch?v=0XmPycAThjo>
(A lecture on ethical and legal obligations of planners, covering ULB roles and policies.)
4. **Role of Urban Planners in Legal Compliance and Governance**
Smart Cities India Channel
<https://www.youtube.com/watch?v=7pJ9Xn0MIjY>
(Discusses urban governance frameworks, acts, and planners' responsibilities.)
5. **Urban Planning Acts and Case Laws – Explained for Students**
URP Study Material Channel
<https://www.youtube.com/watch?v=G0Oj9I6V7MQ>
(Covers zoning regulations, land use laws, and landmark case studies.)

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	MPL3451	Thesis	Practical	4	22	0	26	0	0	0	360	0	540	540	900

SUBJECT OBJECTIVE

1. To provide a comprehensive document / model related to process of urban planning or part thereof.

DETAILS OF COURSE:

CONTENTS:

1. Students are expected to extend the work submitted in the previous semester to present a study complete in respect of its objectives and recommendations.
2. Students are required to complete with the requirements and align with the instructions in the Thesis Manual approved by the Department Faculty Board

APPROACH:

Upon the completion of this course, the students will be able

1. -to enhance ability to critically analyse complex housing issues and data, developing a keen understanding of underlying problems and trends.
2. -to advance research skills, including designing studies, collecting and analysing data, and synthesizing information from multiple sources.
3. -to improve problem-solving abilities, with a focus on developing practical and innovative solutions to housing challenges.
4. -to increased attention to detail in conducting research, analysing data, and presenting findings, ensuring accuracy and thoroughness.
5. -to experience in managing a research project from inception to completion, including planning, executing, and reviewing progress.