Model Curriculum for M.Plan (Urban and Regional Planning) (Effective from the Academic year 2024-25)

Semester- III

Dissertation Phase I							
Course Code	MURP301	CIE Marks	50				
Teaching Hours/Week (L:S: SDA)	08 hrs (2:6:6)	VIVA VOCE	50				
Total Hours of Pedagogy	80	Total Marks	100				
Credits	05	Exam Hours					

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

- The student is required to visit site and organizations for the collection of data.
- Equip students with the ability to conduct independent and rigorous scientific research in the field of Urban & Regional Planning.

• Purpose of dissertation writing is to introduce to the students to learn about research methods and to develop competencies for critically examining a topic of their interest and presenting it credibly before the faculty. This is also a preparatory stage for the students to get enough knowledge and skills for carrying out a thesis project of their choice. Furthermore, the purpose is also to take students from a point at which they have general ideas about their topic for undertaking thesis projects and develop research questions, structure, research strategy and present critical analysis of existing literature on a topic of their interest.

• Each student is required to undertake a Dissertation project on a subject related to any topic broadly connected to Urban or Regional Planning, in consultation with the allotted guide. The students are required to select a topic of their choice in consultation with the Dissertation

Coordinator/Special Officer/Head of the Department and carry out the research based on primary and secondary data analysis / interpretation followed by identification of issues and potentials culminating in policies, plans and proposals or in proving the formulated hypothesis or research questions.

• The Dissertation Coordinator/Special Officer/Head of the Department shall identify the potential topics and assign the Guides/co-Guides to each student for aiding their research. The students are to maintain regular meetings with the Guides (in person/Online) to update on their progress and imbibe the Guide's suggestions into their research. The students have to mandatory maintain the Guide meeting log in the prescribed format by the department.

• Students are to draw upon the learning from the Research Methodologies & IPR course from I Semester to prepare their research methodology/research proposal.

• Project identification, Research proposal, literature review, Research Methodology and Case studies shall be the basis of marking in the viva-voce during the semester examination. There shall be at least 2 reviews during the semester to present the data gathered and confirm with the guides/ reviewers the adequacy of preparatory work leading to Dissertation Stage II in IV Semester.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Viva Voce is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in Viva is 50% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% in the sum total of the CIE (Continuous Internal Evaluation) and Viva- Voce taken together.

Continuous Internal Evaluation:

CIE marks shall be awarded by a committee comprising of Principal/Dean, Special Officer/ Special Officer/ PG Course Coordinator/HOD and Guide/Co-guide of the department. The CIE marks awarded for IDC (Integrated Dissertation Course), shall be based on the progress of the student throughout the semester, presentation skills in seminars and submission of the report.

Viva Voce Examination:

1. The student needs to submit his/her report done throughout the semester, including the data collection for the Viva examination, at least one day prior to the Viva examination to the PG course coordinator/HOD.

2. The Viva-voce will be evaluated by two external examiners appointed by the University along with PG Course coordinator/ guide/ co-guide or an internal examiner.

3. The viva-voce marks awarded, shall be based on the evaluation of report submission, presentation skill and performance in Question-and-Answer session in the ratio 30:10:10.

The viva-voce marks list generated is to be signed by both internal and external examiners and submitted to VTU in the sealed cover through the Principal of the institution.

Suggested Learning Resources:

1. Healey, P. and Silva, E. (2015) The Routledge Handbook of Planning Research Methods, Routledge, New York.

2. McVoy, B.T. and Machi, A.L. (2009) The Literature Review: Six Steps to Success, Corwin Press.

3. Flyvbjerg, B., Landman, T. and Schram, S (eds.) (2012) Real Social Science, Cambridge University Press, Cambridge.

4. White, P. (2017) Developing Research Questions, Second Edition, Macmillan International, New York.

5. Ward, K. (2020) Researching the City: A Guide for Students, Sage, New York.

Web links and Video Lectures (e-Resources):

- <u>https://www.scribbr.com/category/dissertation/</u>
- https://ora.ox.ac.uk/
- <u>https://www.jstor.org/</u>
- <u>https://www.worldbank.org</u>

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
C01	Develop and test hypotheses through rigorous data analysis and interpretation	L4
CO2	Design comprehensive research methodologies integrating primary and secondary data sources.	L4
CO3	Formulate evidence-based policies and proposals based on research findings	L5
CO4	Conduct in-depth literature reviews of peer reviewed journals	L5

Program Outcome of M. Plan (URP) program:

Sl. No.		Description									POs
1	Acquir	e outstand	ing fundam	ental know	vledge in tl	he field of	Urban Plar	nning.			PO1
2	Encom	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.									
3		Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.									
4		Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.								ıg	PO4
5		Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.									PO5
6		Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.								1,	PO6
7	Ability topics.	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.								nerging	PO7
8	Apprai	Appraise professional standards and ethical responsibilities as a team member/stakeholder.									PO8
9	Acquir	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.									PO9
lappi	ing of C	Os and	POs:			I	T	I	T		I
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	
С	201	✓			~	✓		✓		 ✓ 	
С	202	<			<	 ✓ 		<		✓	
С	203	✓		✓	~		~	~		 ✓ 	
С	204	V			~		~	<		✓	

✓ -High Impact

Professional Elective I								
1.Climate change and funding								
Course Code	MURP312A	CIE Marks	50					
Teaching Hours/Week (L:S: SDA)	3 hrs (3:0:0)	SEE Marks	50					
Total Hours of Pedagogy	30	Total Marks	100					
Credits	03	Exam Hours	03					

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

- This course explores the science of climate change, climate system working; factors causing climate change across different time scales and their interactions
- It covers international climate finance, key stakeholders, and various funding instruments.
- Finally, the course looks at the connection between human activity and the current warming trend and considers some of the potential social, economic and environmental consequences of climate change and funding.

Module 1

Earth Systems

Atmosphere, Hydrosphere, Lithosphere, Biosphere and their linkage. Earth's geological history and development and evolution of the atmosphere; Gaia Hypothesis.

Process		Blended learning: Powerpoint presentation to elaborate more on key topics.
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Module-2

Human Impacts on climate:

(i) Causes and consequences of Global warming: Greenhouse effect; Global and regional trends in greenhouse gas emissions; Sea level rise; role of oceans and forests as carbon sinks (ii) Ozone depletion stratospheric ozone shield; Ozone hole.

Wind, stability and turbulence; Monsoons; El Nino, Southern Oscillations, cyclones. Natural climate changes: Records of climate change (glacial cycles, ocean sediments, corals, tree rings).

Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
	Module-3

Introduction to Climate Funding/ Finance & International Mechanism

Definition and importance, Historical context and evolution, Key principles and frameworks. United Nations Framework Convention on Climate Change (UNFCCC), Green Climate Fund (GCF), Global Environment Facility (GEF), Adaptation Fund.

Teaching-

LearningBlended learning: Powerpoint presentation to elaborate more on key topics.Process

Module-4

National, local climate finance and Private sector

Nationally Determined Contributions (NDCs), National climate funds and policies, Subnational and local funding initiatives.

Role of private investments, Public-private partnerships, Green bonds and sustainable investing.

Teaching-
LearningBlended learning: Powerpoint presentation to elaborate more on key topics.Process

Module-5

Challenges and Opportunities with Case Studies & Best Practices

Barriers to accessing climate finance, Innovative financing solutions, Successful climate finance projects, Lessons learned from various regions.

Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	
Aggoggmont	Details (both CIE and SEE)

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3. Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.
- 4. Each full question will have a sub-question covering all the topics under a module.

5. The students will have to answer five full questions, selecting one full question from each module

BOOKS AND REFERENCES

- 1. Barry, R. G., 2003. Atmosphere, weather and climate. Routledge Press, UK
- 2. Critchfield, Howard J., 1998, General climatology, Prentice Hall India Pvt. Ltd., New Delhi.
- 3. Firor, J., and J. E. Jacobsen, 2002. The crowded greenhouse: population, climate change and creating a sustainable world. Yale University Press.
- 4. Glantz, M. H., 2003. Climate Affairs: a primer. Island Press.
- 5. Harvey D., 2000, Climate and Global Climate Change, Prentice Hall.
- 6. Kump, L. R., Kasting, J.F., and Carne, R. G., 2004. The Earth System. 3 rd Ed. Prentice-Hall
- 7."Climate Finance: Regulatory and Funding Strategies for Climate Change and Global Development" by Richard B. Stewart, Benedict Kingsbury, and Bryce Rudyk.
- 8."Climate Finance: Theory and Practice" by Venkatachalam Anbumozhi and Kaliappa Kalirajan.

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description			
CO1	Demonstrate a solid understanding of the climate system.	L6		
CO2	Overview of various factors that shape climate funding.	L5		
CO3	Recognition of the consequences, risks, and uncertainties of climate change & funding	L2		
CO4	Case studies of an innovative financing solutions.	L5		

Sl. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2

3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	~	 ✓ 				~			~
CO2	~	 ✓ 				~			~
CO3	~	 ✓ 				 ✓ 			~
CO4	V	~			~	~			V

Professional Elective I								
2.Advanced GIS Applications in Planning								
Course Code	MURP312B	CIE Marks	50					
Teaching Hours/Week (L:S: SDA)	03 hrs (3:0:0)	SEE Marks	50					
Total Hours of Pedagogy	30	Total Marks	100					
Credits	03	Exam Hours	03					

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

- Understand concept of Remote Sensing and Satellite Images
- Perform satellite image interpretation
- Apply techniques for environmental monitoring
- Understand & interpret hydrology of an area
- Perform modeling and basic programming.

Module 1

Remote Sensing of Environment

Definition of Remote Sensing, electromagnetic spectrum; Energy budget; Introduction to Satellite Images: Concepts of Projection, Datum & spheroid; platforms and sensors, bands, types of resolution, Panchromatic vs Multispectral images.

	Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
Data Collection & Analysis. Student Presentations: Student Group presentations.		

Module-2

Satellite Image Analysis

Preprocessing of the data: Georeferencing of an image; Merge & Mosaicing; Image Enhancement techniques. Image Interpretation: Introduction to Erdas Imagine supervised and unsupervised classification.

Teaching- Learning Process	Blended learning: PowerPoint presentation to elaborate more on key topics.
	Data Collection & Analysis. Student Presentations: Student Group presentations.

	Module-3			
Tools for Environmental Analy				
Build up Index (NDBI), Digital	alized Difference Vegetation Index (NDVI), Normalized Difference Vegetation change detection. Etc.			
Teaching- Learning	Blended learning: PowerPoint presentation to elaborate more on key			
Process	topics.			
	Data Collection & Analysis.			
	Student Presentations: Student Group presentations.			
	Module-4			
Tools for Hydrological Analys	sis			
	& flow accumulation techniques, basin and watershed delineation,			
Teaching-Learning Process	Blended learning: PowerPoint presentation to elaborate more on key			
	topics.			
	Data Collection & Analysis.			
	Student Presentations: Student Group presentations.			
	Module-5			
Automation and Basic progra	mming			
Model Builder: Creating a mod	el in Graphical User Interface (GUI); Introductory python programming			
Teaching- Learning	Blended learning: PowerPoint presentation to elaborate more on key			
Process	topics.			
	Data Collection & Analysis.			
	Student Presentations: Student Group presentations.			
Assessment Details (both CIE	and SEE)			

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%.

The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

2. The question paper will have ten full questions carrying equal marks.

3.Each full question is for 20 marks. There will be two full questions (with a maximum of four sub- questions)

from each module. Some subjects can choose to have a compulsory question under any one module.

4.Each full question will have a sub-question covering all the topics under a module.

5. The students will have to answer five full questions, selecting one full question from each module

Suggested Learning Resources:

1. Concepts and Techniques of Geographic Information Systems by Chor Pang Lo; Prentice-Hall of India Private Ltd.,2006.

- 2. Getting to know ArcGIS Desktop by Tim Ormsby; ESRI Press, 2010.
- 3. Mastering ArcGIS by Maribeth Price; McGraw Hill, 2015.
- 4. Remote Sensing and Image interpretation by Thomas Lillesand, Ralph Kiefer., Wiley publication, 2015.

Web links and Video Lectures (e-Resources):

- https://ellipsis-drive.com/blog/how-gis-helps-to-save-the-environment/
- <u>https://www.youtube.com/watch?v=BfyLnklrlAc</u>

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Perform supervised and unsupervised classification of satellite images.	L6
CO2	Familiarize with tools of environmental analysis including NDVI, NDBI & digital change detection.	L6
CO3	Acquire skills related to tools for hydrological analysis.	L6
CO4	Get an introduction to python programming	L6

Sl. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5

6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6	
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7	
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8	
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1			~	~					~
CO2			✓	✓					~
CO3			✓	✓					~
CO4			~	~					~

🖋 -High Impact

	Professional Elective I					
3. Advanced Solid Waste Management						
Course Code	MURP312C	CIE Marks	50			
Teaching Hours/Week (L:S: SDA)	3 hrs (3:0:0)	SEE Marks	50			
Total Hours of Pedagogy	30	Total Marks	100			
Credits	03	Exam Hours	03			

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

- To make students understand the description of solid waste; different types: waste flows in society: amounts and composition of waste.
- Problems due to waste generation and strategies to minimize these problems; Consumption and waste, waste hierarchy (waste prevention, recirculation etc), product development, problem solving with a system analysis approach.
- Legal and economical means of control for waste management (Sweden and EU suggestions). Waste treatment and handling: thermal and biological methods, landfill, handling of hazardous waste.

Module 1

Municipal Solid Waste Management:

Legal and Organizational foundation: Definition of solid waste – waste generation– major legislation, monitoring responsibilities, sources and types of solid waste – sampling and characterization – Determination of composition of MSW – storage and handling of solid waste

- Future changes in waste composition.

Teaching- Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	

Module-2

Collection and Transport of Solid Waste:

Waste collection systems, analysis of collection systems – alternative techniques for collection systems. Need for transfer operation, transport means and methods, transfer station types and design requirements.

Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
	Module-3

Process of Solid Waste and Energy recovery:

Unit operations for separation and processing, Materials Recovery facilities, Waste transformation through combustion and aerobic composting, anaerobic methods for materials recovery and treatment – Energy recovery – Incinerators

incinerators	
Teaching- Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	Denied learning. I owerpoint presentation to etaborate more on key topics.
Process	
	Module-4
Disposal of S	olid wastes
Land farming	, deep well injections. Landfills: Design and operation including: site selection, Geo-
environmental	investigations, engineered sites, liners and covers, leachate control and treatment, gas
recovery and	control, including utilization of recovered gas (energy), and landfill monitoring and
	Requirements and technical solution, designated waste landfill remediation - Integrated
waste manage	ment facilities. TCLP tests and leachate studies. Economics of the on-site v/s off site waste
management o	ptions. Natural attenuation process and its mechanisms.
Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	
	Module-5
Household H	azardous Waste Management:
Design praction	ces of solid wastes. Definition and identification of hazardous wastes-sources and characteristics -
hazardous wa	stes in Municipal Waste - Hazardous waste regulations - minimization of Hazardous Waste-
compatibility,	handling and storage of hazardous waste collection and transport. Regulatory requirements for
identification,	characterization and disposal of hazardous, non hazardous and domestic wastes.
Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	
Accoccmont	Datails (both CIE and SEE)

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3.Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one

module.

- 4. Each full question will have a sub-question covering all the topics under a module.
- 5. The students will have to answer five full questions, selecting one full question from each module

Suggested Learning Resources:

- 1. Handbook of Solid Waste Management by Frank Kreith, George Tchobanoglous, McGraw Hill Publication
- Bagchi, A., Design, Construction, and Monitoring of Landfills, (2nd Ed). Wiley Interscience, 1994. ISBN: 0-471-30681-9.
- 3. Sharma, H.D., and Lewis, S.P., Waste Containment Systems, Waste Stabilization, and Landfills: Design and Evaluation. Wiley Interscience, 1994. ISBN: 0471575364.
- 4. George Techobanoglous et al, "Integrated Solid Waste Management", McGraw-Hill Publication, 1993.
- 5. Charles A. Wentz; "Hazardous Waste Management ", McGraw-Hill Publication, 1995.

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Analyse the major legislation and organizational responsibilities in municipal solid waste management	L4
CO2	Evaluate different waste collection systems and techniques for efficiency and effectiveness.	L5
CO3	Design processes for solid waste and energy recovery, including materials recovery facilities and incinerators	L6
CO4	Develop comprehensive landfill management plans, covering site selection, design, operation, and monitoring	L6
CO5	Assess the regulations and practices for the identification, handling, and disposal of hazardous wastes in municipal solid waste management.	L5

Program Outcome of M. Plan (URP) program:

Sl.	Description	POs
No.		105
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

Mapping of COs and POs:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	<				~	~			~
CO2	v			~	~	~			~
CO3	✓			 ✓ 	~	<			~
CO4	✓	~	~	~	 ✓ 	<			~
CO5	~				~	~	~		~

Professional Elective II

1.Regional Transport Planning

The ground Transport Flamming						
Course Code	MURP313A	CIE Marks	50			
Teaching Hours/Week (L:S: SDA)	3 hrs (3:0:0)	SEE Marks	50			
Total Hours of Pedagogy	30	Total Marks	100			
Credits	03	Exam Hours	03			

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

• To introduce regional elements in the domain of transport planning and equip students towards enhancing regional connectivity.

Module 1

Overview of Regional Planning

Approach to regional planning, types of regions and their characteristics, delineation of region for transport planning; backwardness and regional disparity in development; role of connectivity and regional transport in development and backwardness.

Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	

Module-2

Regional Transport Systems

Regional transport system, types, characteristics, regional transport supply, regional traffic and travel pattern, emerging issues.

Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
1100055	

Module-3

Regional Travel Demand

Regional travel demand determinant, regional demand models, regional accessibility, sequential travel demand models, econometric models, regional public transport demand.

Teaching-

Learning *Blended learning: Powerpoint presentation to elaborate more on key topics.*

Process

Module-4

Regional Network Analysis

Regional network system, rural road network planning, graph theory applications- connectivity and Accessibility measures.

Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	

Module-5

Regional Transport Policy

Regional transport infrastructure, system planning imperatives, integration aspects, system selection, Policy aspects at regional level.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3. Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.
- 4. Each full question will have a sub-question covering all the topics under a module.
- 5. The students will have to answer five full questions, selecting one full question from each module

Suggested Learning Resources:

 Blonk, W.A.G. (1979), Transport and Regional Development. Saxon House, Farnborough.
 Verma A. (2010), Integrated Public Transportation System: Planning and Modelling. Vdm Publishing House, Mauritius.
 Vinod K. T. M. (2000), Mierre Regional Transport Planning (Research, School of Planning on Vinod K. T. M. (2000).

3. Vinod K. T. M. (2000), *Micro Regional Transport Planning / Research*. School of Planning and Architecture, Delhi.

Web links and Video Lectures (e-Resources):

- <u>https://www.tmr.qld.gov.au/regionaltransportplans</u>
- https://www.gnrc.org/194/Regional-Transportation-Plan

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Analyse various approaches to regional planning and their impact on regional transport development	L4
CO2	Evaluate different types of regional transport systems and their characteristics	L5
CO3	Apply regional travel demand models to assess travel patterns and demand determinants.	L4
CO4	Design rural road network plans using regional network analysis and graph theory applications.	L6
CO5	Formulate comprehensive regional transport policies considering infrastructure, system integration, and selection.	L6

Sl. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	×					 ✓ 			~
CO2	×					~			~
CO3	×			V	~	~	~		~
CO4	×	×	~	V	~	 ✓ 	~		~
CO5	~	~	~	~	~	~	~		~

Professional Elective II 2.Logistics and Freight Management					
Course Code	MURP313B	CIE Marks	50		
Teaching Hours/Week (L:S: SDA)	3 hrs (3:0:0)	SEE Marks	50		
Total Hours of Pedagogy	30	Total Marks	100		
Credits	03	Exam Hours	03		

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

- This subject takes a broad view of management of logistics and freight when we examine its role in trade and how this is then connected to the business concept of supply chain management.
- In this, students will learn the methods used in strategic logistics management along with the various techniques of financial analysis for operation efficiency and legislative aspects as well.

	Module 1			
Introduction to Logistics Management Logistics Management: Concepts, Definition, Evolution and Importance; Urban Logistics Ecosystem; Logistics Planning: The Actors and Their Contributions; Logistics Parks/ Hubs; Warehousing and Material Procurement; Material Storage, Handling, Processing, Packaging and Transportation; Third Party and Fourth Party Logistics; Reverse Logistics and Logistics in Trade. Teaching- Learning Blended learning: Powerpoint presentation to elaborate more on key topics.				
1100055	Module-2			
Logistics and Mod Multi-Modal Tran Freight Rate Struct Operations, Low I Teaching-	Freight Transport de Choice; Mode Characteristics and Key Features of Different Modes; Inter-Modal and asport; Shipping Business Environment and Containerization; Transport Cost Drivers; etures; Freight Transport Best Practices: Vehicle Access and Loading / Unloading Emission Zones, Night Deliveries, Nearly Delivery Areas, ITS Applications.			
Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.			
	Module-3			
Strategic Logistic Management Determinants of Freight Demand; Distribution Channels and Distribution Costs; Logistics Acquisition and Production; Sourcing and Contracting; Logistics Network Planning: Vehicle Routing and Scheduling, Fleet Sizing, Location Decisions.				
Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.			
	Module-4			

Supply Chain Management

Fundamentals of Supply Chain Management (SCM): Concept and Components; Supply-Demand Variables; Customer Services; Drivers of Supply Chain Performance; Supply Chain Segmentation: Product, Demand, Supply and Market Segmentation; Emerging Trends and Global Practices of SCM; e-commerce and Logistics.

Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	

Module-5

Legal Aspects and Liabilities

Statutes and Policies for Different Logistics Operations in India and Abroad; Liabilities and Liabilities Resolution; Marine / Cargo Insurance; Freight Quality Partnerships: Case Studies.

Teaching-	
Learning	Blended learning: Powerpoint presentation to elaborate more on key topics.
Process	

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3.Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.
- 4. Each full question will have a sub-question covering all the topics under a module.
- 5. The students will have to answer five full questions, selecting one full question from each module.

Suggested Learning Resources:

Logistics Planning and Management

- Transport Logistics: Past, Present, and Predictions, I. Baluch, Winning Communications, 2005
- Managing Transport Operations, Edmund J. Gubbins, Kogan Page Ltd, 2003
- Urban Goods Movement A guide to policy and planning, KW Ogden, Ashgate Pub., 1992
- Logistics Operations and Management by R.Z. Farahani, S. Rezapour, L. Kardar, Elsevier Inc., 2011
- Logistics An Introduction to supply chain Management, Donald Waters, Palgrave Macmillan, 2003
- Urban Transportation and Logistics- Health, Safety and Security Concerns, CRC Press, Taylor &

Francis Group,2014

- Optimising Transport Logistics process with Multi agent Planning & Control, Max Gath, Springe, 2015
- The Handbook of Logistics and Distribution Management, A. Rushton, P.Chroucher, P. Beker, Kogan Page Ltd, Fourth edition 2010.

Web links and Video Lectures (e-Resources):

- https://www.intekfreight-logistics.com/complete-guide-freight-management-service-solutions
- <u>https://www.cafworldwide.com/blog/what-is-freight-management-</u> logistics#:~:text=Freight%20management%20logistics%20encompass%20the,on%20budget%2C%20and%20o n%20time.

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Sl. No. Description					
CO1	O1 Analyse the components and significance of urban logistics ecosystems, including logistics parks and hubs					
CO2	Evaluate the best practices in freight transport, including mode choice, inter- modal transport, and ITS applications	L5				
CO3	Develop strategic logistics plans addressing vehicle routing, scheduling, and fleet sizing.	L6				
CO4	Assess the drivers and emerging trends in supply chain performance, including the impact of e-commerce.	L5				
CO5	Examine the legal aspects, policies, and liabilities associated with logistics operations domestically and internationally.	L4				

Sl. No.	Description						
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.						
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.						
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3					
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4					
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5					

6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6	
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7	
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8	
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	×				~	~			
CO2	~			<	<	~			
CO3	~	~	✓	~	~	~			
CO4	~			v	<	~	 ✓ 		~
CO5	×			~	V	V		~	~

🞸 -High Impact

2 Tuo	Professional Ele		
Course Code	nsport Policy and Instit MURP313C	CIE Marks	50
Teaching Hours/Week (L:S: S	DA) 3 hrs (3:0:0)	SEE Marks	50
Total Hours of Pedagogy	30	Total Marks	100
Credits	03	Exam Hours	03
• To understand the regulator	takeholders in Transport Poli y and management systems in provisions for the development	cy Preparation the transport and logistics	s sector
	Module 1		
mobility, Urban Transport plan paradigm shift in transport polic Teaching- Learning Process	6	nt.	
	Module-2		
Transport governance and insState and its role in transport anregulation , Public private ownedTeaching- LearningBlended learning	d logistics development, Mor	Rail privatization.	
Process Dienaeu ier	urning. I owerpoint presenta		key topics.
	Module-3		
Transport Policy and Regulat Impact of Globalization, Deregulate economic incentives based policy	ulation and privatization in ur	ban transport, Command a	nd Control and
Teaching-	arning: Powerpoint presenta	tion to elaborate more on t	key topics.

Module-4

Plans, procedures and contemporary policy agenda

National Planning, NUTP, TOD Policy, Low carbon Mobility Plans, National Urban Transport Fund.

Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.

Module-5

Legislative Approach to National Transportation Policy

Unified Metropolitan Transport Authority Act, National highways act, Metro Act.

Teaching-
LearningBlended learning: Powerpoint presentation to elaborate more on key topics.Process

Assessment Details (both CIE and SEE)

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(Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3.Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.
- 4. Each full question will have a sub-question covering all the topics under a module.
- 5. The students will have to answer five full questions, selecting one full question from each module

Suggested Learning Resources:

- Transport policy and planning in Great Britain, by Headicar, P. Routledge 2009, London.
- Introduction to sustainable transportation: policy, planning and implementation by Schiller, Preston L. Earthscan 2010, London.
- Integrated transport: from policy to practice by Givoni, Moshe. Routledge 2010, London.
- Journal of transport economics and policy, Bath The London School of Economics & the University of Bath.

Web links and Video Lectures (e-Resources):

- <u>https://link.springer.com/chapter/10.1007/978-981-13-9620-5_2</u>
- https://slocat.net/ato/

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Sl. No. Description				
CO1	Comprehension of problems in the formulation of transport policy.	L2			
CO2	Identification of alternative policy options and their evaluation.	L5			
CO3	Evolution of the transport governance and institutional mechanisms.	L5			
CO4	Understanding of the legal framework which impacts transport policy	L2			

Sl. No.	Description	POs					
1	1 Acquire outstanding fundamental knowledge in the field of Urban Planning.						
2	2 Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.						
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3					
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.						
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5					
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6					
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7					
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8					
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9					

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	~	~				~			~
CO2	~	~	~			~			~
CO3	<	~				~			V
CO4	~	~				~			V

	1. H	Professional Electorial Electorial Electorial Electorial Electoric	ctive III Areas and Groups	
Course Code		MURP314A	CIE Marks	50
Teaching Hours/We	ek (L:S: SDA)	3 hrs (3:0:0)	SEE Marks	50
Total Hours of Peda	gogy	30	Total Marks	100
Credits		03	Exam Hours	03
CharacteristicSettlement &	e Students will b es of fringe areas shelter character	be able to inculcate by u and development proce ristics. ation, profile & growth	ess.	
		Module 1		
Fringes / Peri-urban / development process housing. Teaching-	Sub-urban Hous, various modes	of land Supply in fring	ges , characteristics of fr e areas, case study with s ntion to elaborate more o	pecial emphasis on
1100035		Module-2		
Arid / Coastal / Hill	y Region Housi	ng-		
		Materials & technology oment policies and prog	, design standards, climat rammes.	ic factors, danger of
Teaching- Learning Process	Blended learnin	g: Powerpoint presente	ution to elaborate more o	n key topics.
		Module-3		
population, profile &	growth of elder	ly persons, classificatio	nition of old age charactern n of elderly population, p th special reference to he	roblems of elderly
Teaching-			ntion to elaborate more o	
		Module-4		

Housing for Women/Children – Importance of gender in housing, housing planning & design considerations with women perspective – hierarchy of spaces at macro and micro level, shelter for low income women, design considerations for urban and rural women, housing options for different categories for single women, government schemes, case study with special reference to housing.

Teaching-
Learning
ProcessBlended learning: Powerpoint presentation to elaborate more on key topics.

Module-5

Housing for Refugees/Oustees – Concept of refuges, types of refugees, norms for treatment of refugees, refugees law, refugees and housing, problems of refugees, planning considerations for the refugees, case study areas with reference to housing.

Shelterless - Shelterless in the context of urban poor, psychological & social implications of poverty on homeless, homeless in metropolis, problems of homelessness, various interventions, night shelters, case studies.

Tribal Housing – Socio cultural & economic profile, settlement characteristics, housing typology, housing schemes, policies & programmes, for tribal upliftment, case study area.

Teaching- LearningBlended learning: Powerpoint presentation to elaborate more on key topics.Process
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Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3.Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.

4. Each full question will have a sub-question covering all the topics under a module.

5. The students will have to answer five full questions, selecting one full question from each module.

Suggested Learning Resources:

• Buildings and Society by Anthony D. King (2003).

Web links and Video Lectures (e-Resources):

- <u>https://onlinecourses.nptel.ac.in/noc21_ar16/preview</u>
- https://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I(2).pdf

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Analyse the evolution, transformation, and problems of inner-city housing, including policies and programs	L4
CO2	Evaluate housing development processes, land supply modes, and rural-urban linkages in fringe and peri-urban areas.	L5
CO3	Design housing solutions for arid, coastal, and hilly regions considering settlement characteristics, materials, and climatic factors.	L6
CO4	Assess the planning and design considerations for housing the elderly, including their unique problems and needs	L5
CO5	Plan housing solutions that address the specific needs of women and children, considering gender perspectives and government schemes.	L6
CO5	Develop comprehensive housing plans for refugees, considering legal norms, planning considerations, and specific problems faced by refugees.	L6

SI. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5

6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	×					~			~
CO2	V					~			
CO3	×		~	~	~	~			
CO4	×					~			
CO5	×		~	~	~	~			
CO6	V		~	~	 Image: A start of the start of	~			

	2.Incl	Professional Electivusion and Communit					
Course Code	Course Code MURP314B CIE Marks 50						
Teaching Hours/Week (L:S: SDA)3 hrs (3:0:0)SEE Marks50							
Total Hours of Pe	Total Hours of Pedagogy30Total Marks100						
Credits							
Course Learning By taking this cou	-	e able to inculcate by und	erstanding				
• Role of effe	ective communication	ion in society.					
		Module 1					
Role and Importance Importance of communication for town planners, role of effective communication in society. Teaching- Learning Blended learning: Powerpoint presentation to elaborate more on key topics.							
Process	0						
		Module-2					
Community Parti Understanding con participatory proce	cept of inclusion, c	community based organiza	tions, NGOs, RWAs, SI	HGs, understanding			
Teaching- Learning Process	Blended learning	Powerpoint presentation	n to elaborate more on k	ey topics.			
		Module-3					
	icipation, methods	of communication, written nication strategy, writing		unication, objective of			
Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.						
		Module-4					
	s, stakeholders and	n law, preparing maps and the masses, organization o		-			
Teaching- Learning Process	Teaching- LearningBlended learning: Powerpoint presentation to elaborate more on key topics.						

Module-5

Participatory Processes

Role of elected representatives in participatory processes, community participation in project formulation, best practices and case studies.

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Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% (50 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

The Internal Marking shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular course can decide on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and 15th weeks of the academic calendar preferably. The Internals shall be from a choice of written examinations/ Assignments/ Presentations allotted to students.

Semester End Examination:

- 1. The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.
- 2. The question paper will have ten full questions carrying equal marks.
- 3.Each full question is for 20 marks. There will be two full questions (with a maximum of four subquestions) from each module. Some subjects can choose to have a compulsory question under any one module.
- 4. Each full question will have a sub-question covering all the topics under a module.
- 5. The students will have to answer five full questions, selecting one full question from each module.

Suggested Learning Resources:

• Support Community Participation and Social Inclusion by CAQA Publications.

Web links and Video Lectures (e-Resources):

- <u>https://www.citizenlab.co/blog/civic-engagement/6-good-practice-examples-for-inclusive-community-engagement-2/</u>
- <u>https://www.researchgate.net/publication/259199775_Social_Inclusion_and_Community_Participation_of_Indi</u>viduals_with_IntellectualDevelopmental_Disabilities

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Effective communication of planners with small groups.	L3
CO2	Grasp of the stakeholders in town planning, as represented by community organizations.	L5
CO3	Techniques of communication for planners.	L1
CO4	Participatory processes in planning.	L2

Sl. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4
5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1		~			~	V			~
CO2		~			~	~			~
CO3		 ✓ 			~	<			~
CO4		~			~	~			~

		Professional Ele	ective III				
		3.Disasters and S	ettlements				
Course Code		MURP314C	CIE Ma	arks	50		
Teaching Hours/	50						
Total Hours of Pe	Total Hours of Pedagogy30Total Marks100						
Credits		03	Exam I	Hours	03		
Course Learnin By taking this co		e able to inculcate by	understanding:				
	of disasters in India ns and procedures						
		Module 1	L				
natural environme Slides, mudflow, f Management lands Using technology	es, and perceptions nt: Floods and flash forest fires, wildlife slides, soil erosion, to monitor and pred and property due to	of Disasters – natural- a floods-urban floods- fires, and winter storr earthquakes, tremor, t lict Disaster o disaster. Case studies c: Powerpoint presente	causes and conseque ns Cyclones-cyclone sunami, cloud bursts, s from across the wor	nces-fl prepar etc. <u>ld. Dis</u>	ood controls. Land edness and Risk saster Recovery.		
		Module-2	2				
mitigation, Health planning in all typ	ness, prevention, dis Issues-Evacuation es of natural disasten n Alerts and warnin	splacement and develop behaviour-current mea ers. Emergency manag ngs. Role of NDRF a: Powerpoint presente	asures- vulnerability ement-alerts and war	assessr ning-R	nent- Evacuation Role of		
		Module-	3				
Human response to spatial planning pr provisions of infra various levels: vill	cocess: micro zonin structure for disaste age, district, and to e and preparedness	nt rt term and long-term g, building bye-laws, r er mitigation; vulnerab wn/city level. Geo-inf of Local Governments r: Powerpoint presente	norms, and standards bility index and mapp ormatics-use of Rem and NGOs in mitiga	, densit ing; Di ote Ser tting U	ty variations, isaster insurance at nsing in Disaster rban Disasters.		

	Module-4
Man-made disas Special Regulat	aster and Management sters-Chemical spills, Terrorism and Urban Violence. Action plans to minimize the risks. ions. Identification of Special Areas for Development-Flood Prone Areas; Drought Prone and, and Saline Lands-Planning Appraisal and Planning Strategies.
Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
	Module-5
Disaster Educa	tion
in disaster educa Use of technolo	areness and participation at various levels; Role of ULBs, NGOs/CBOs and communities ation; Relevance of disaster management with relevant to development and environment; gy and media for spreading disaster awareness.
Teaching- Learning Process	Blended learning: Powerpoint presentation to elaborate more on key topics.
Assessment D	etails (both CIE and SEE)
50%. The minin SEE is 40% of t requirements an 50% (50 marks (Semester End H Continuous Int The Internal Marki	of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is num passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in he maximum marks of SEE. A student shall be deemed to have satisfied the academic d earned the credits allotted to each subject/ course if the student secures not less than out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE Examination) taken together. ernal Evaluation: ng shall be done for 100 which will be scaled down to 50, the faculty in charge of the particular on any change in the structure of the internal examination which is to be conducted on 5th, 10th, and
Assignments/ Press Semester End I	academic calendar preferably. The Internals shall be from a choice of written examinations/ entations allotted to students. Examination: nestion paper will be set for 100 marks and the marks scored will be proportionately reduced
	n paper will have ten full questions carrying equal marks.
	testion is for 20 marks. There will be two full questions (with a maximum of four sub- from each module. Some subjects can choose to have a compulsory question under any one
-	testion will have a sub-question covering all the topics under a module. It is will have to answer five full questions, selecting one full question from each module.

Suggested Learning Resources:

- Human Settlement and Natural Disasters, displayed by UN-Habitat.
- Climate Change, Disaster Risk and Urban Poor by Judy L. Baker (2012).

Web links and Video Lectures (e-Resources):

- <u>https://ndma.gov.in/</u>
- <u>https://www.youtube.com/watch?v=9WIwlljva_s</u>

Skill Development Activities Suggested

- Guest Lectures.
- Case Studies

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description	Blooms Level
CO1	Analyse natural and man-made disasters using global case studies	L4
CO2	Assess strategies for disaster preparedness, prevention, and evacuation across various natural disasters	L5
CO3	Incorporate disaster mitigation into spatial planning through zoning, infrastructure provisions, and vulnerability mapping	L5
CO4	Assess the planning and design considerations for housing the elderly, including their unique problems and needs	L5
CO5	Foster community awareness and participation in disaster education through NGOs/CBOs, leveraging technology and media for outreach	L4

Sl. No.	Description	POs
1	Acquire outstanding fundamental knowledge in the field of Urban Planning.	PO1
2	Encompass the ability to work in collaboration with interdisciplinary teams and stakeholders.	PO2
3	Demonstrate creativity in the problem-solving process through professional quality graphic presentations, use of GIS software, and Policy decisions.	PO3
4	Acquire outstanding knowledge & software skills for redesigning, monitoring, and improving Cities and Regions' functioning.	PO4

5	Understanding the diverse needs of values and systems of society and providing Smart, Sustainable, and data-centric solutions.	PO5
6	Demonstrate design and policy solutions that integrate contextual, social, economic, cultural, ethical, and environmental concerns.	PO6
7	Ability to undertake independent/option-based research and exploration of advanced and emerging topics.	PO7
8	Appraise professional standards and ethical responsibilities as a team member/stakeholder.	PO8
9	Acquire outstanding knowledge and understanding of the current trends in Urban Planning.	PO9

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	×				~		~		~
CO2	~				<				
CO3	×				<				
CO4	~		~	~	~	~	~	~	~
CO5	*		~		~	~		~	
CO6	V	~	~		~	~	~		V

PROFESSIONAL TRAINING / INTERNSHIP					
Course Code	MINT385	CIE Marks	50		
Teaching Hours/Week (L:S: SDA)		VIVA VOCE	50		
Total Hours of Pedagogy		Total Marks	100		
Credits	07	Exam Hours	15 mins per student		

Course Learning objectives:

By taking this course Students will be able to inculcate by understanding:

• To undergo professional training in any Government departments or Private firms/organizations involved in Infrastructure/ Smart City Projects/ Town Planning / Transport Planning and policies/ Urban Design/ Infrastructure development projects to get an on-site experience of handling services pertaining to Urban Planning discipline

- To utilize the forum to discuss key issues in City Planning, engage with different stakeholders
- Apply analytical skills developed in the coursework over the two semesters into practice.

COURSE CONTENT

• A Candidate shall undergo Professional Training for 12 weeks immediately after the completion of 2nd-semester examinations and before the commencement of 3rd-semester course work.

• The training shall be undertaken in any Government departments (Town Planning/ Governance/ Traffic Police Command (or similar)/ Urban Local Bodies/ Planning and Development Authorities/firms/organizations involved in Infrastructure/ Smart City Projects/ Town Planning / Transport Planning and policies/ Urban Design/ Infrastructure development projects. The training certificate shall be signed by an authorized signatory of the Government department/ Firm/ Company or Agency.

• Each student has to maintain a weekly log in the prescribed format by the department. And shall submit the same to the department during the Internal Assessments.

• Every candidate shall compile and submit a report of their Professional Training, which is signed by the authorized signatory at the Interning Organization. Professional Training report shall consist of the certificate, project details (including work/survey maps/drawings/study etc., done by the student), Critical Self-Evaluation of the training and Manager feedback at the interning organization and enclosing the weekly log maintained.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Viva Voce is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in Viva is 50% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures not less than 50% in the sum total of the CIE (Continuous Internal Evaluation) and Viva- Voce taken together.

Continuous Internal Evaluation:

Based on monthly reviews held by internship coordinator /Special Officer/faculties at 5th 10th and 15th week of the academic calendar CIE assessment will be based on the progress made at internship. The student must maintain an internship journal as per the prescribed format from the department.

Viva Voce Examination:

1. Marks shall be awarded based on Viva Voce (15 mins per student) by One External Examiner and One Internal Examiner as appointed by the University.

2. The SEE marks awarded for the Internship shall be based on the evaluation of the Internship Report, Internship Presentation skill, and understanding of the student work at the Interning organization.

3. Critical self-evaluation of the students work in the organization will be the top criteria on which the student is awarded the SEE marks.

Skill Development Activities Suggested

• Subjected to the Activities at the Internship organization.

Course outcome (Course Skill Set)

At the end of the course the student will be able to:

Sl. No.	Description					
CO1	Implement theoretical planning principles in real-world settings within government departments or firms involved in urban project	L4				
CO2	Apply advanced planning knowledge and soft skills to contribute effectively to complex urban planning initiatives	L5				
CO3	Formulate practical solutions and policies for urban planning challenges based on internship experience	L5				
CO4	Prepare professional reports, including work, survey maps, drawings, and studies conducted during the internship	L4				

Sl. No.	Description	POs
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CO1	✓	~		 ✓ 	 ✓ 	~		 ✓ 	 ✓
CO2	v	~	×	~				~	~
CO3	~	~		~			<	<	~
CO4	~	~	~	~				~	V



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