



**THIAGARAJAR SCHOOL OF ENVIRONMENTAL DESIGN AND
ARCHITECTURE(T'SEDA)**

**(Architecture, Planning and Design)
THIAGARAJAR COLLEGE OF ENGINEERING,
MADURAI – 625015**

(A Govt. Aided Autonomous Institution Affiliated to Anna University)

CURRICULUM AND SYLLABI– 2026

(M.Plan (Urban Planning) – R 2026)

M.Plan -Urban Planning (Full-Time)

**Applicable to the students admitted in M.Plan (Urban Planning) Programme,
offered in Thiagarajar college of Engineering,
from the Academic year 2026 – 2027 onwards**

THIAGARAJAR COLLEGE OF ENGINEERING

FACULTY OF PLANNING

Programme Educational Objectives (PEO's)

PEO1: Graduates shall apply advanced planning knowledge, analytical techniques, spatial technologies, and professional skills to address complex urban development challenges.

PEO2: Graduates shall demonstrate ethical professional practice, leadership, and a commitment to lifelong learning in planning, governance, and development sectors.

PEO3: Graduates shall promote socially inclusive, economically viable, and environmentally sustainable planning solutions that enhance the quality of life of communities.

PEO4: Graduates shall undertake research, innovation, and evidence-based decision-making to address emerging urban and infrastructure planning issues.

PEO5: Graduates shall effectively collaborate with multidisciplinary teams, stakeholders, government agencies, and communities for the preparation and implementation of planning projects and policies.

PEO- Mission Mapping

PEO	M1	M2	M3	M4	M5
PEO1	S	M	M	S	S
PEO2	S	M	M	M	S
PEO3	M	S	S	S	M
PEO4	S	M	M	S	S
PEO5	S	S	S	M	S

L - Low; M – Medium; S – Strong

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -- 625 015
Master of Planning Program Outcomes -- Competencies -- Performance Indicators

PO1 – Knowledge and Subjective Reflective Thinking Apply knowledge of planning history, urban theories, socio-economic dynamics, and spatial structures to urban systems.	
Competency	Performance Indicators [TPS Level -- Verb]
1.1 Demonstrate competence in Planning History, Urban Theories, and Spatial Morphology.	1.1.1 Apply historical precedents and established planning theories to analyze the evolution and current morphological conditions of urban settlements. <i>[TPS 3 – Apply]</i>
1.2 Demonstrate competence in Socio-Economic and Demographic Dynamics of Cities.	1.2.1 Analyse demographic data, economic indicators, and social structures to identify trends and inform equitable spatial planning interventions. <i>[TPS 4 – Analyse]</i>
1.3 Demonstrate competence in Regional Economics and Land Market Dynamics.	1.3.1 Apply principles of urban and regional economics to evaluate land market behavior, real estate dynamics, and spatial resource allocation. <i>[TPS 3 – Apply]</i>
1.4 Demonstrate competence in Infrastructure Systems and Network Architecture.	1.4.1 Apply theoretical knowledge of physical and social infrastructure networks to assess carrying capacities and urban service delivery deficiencies. <i>[TPS 3 – Apply]</i>
1.5 Demonstrate competence in Statutory Planning Frameworks and Public Policy.	1.5.1 Apply knowledge of public policy, governance structures, and statutory planning mechanisms to contextualize urban development proposals. <i>[TPS 3 – Apply]</i>

PO2 – Objective Critical Thinking and Problem Formulation Identify, formulate, and analyse complex socio-spatial, environmental, and infrastructural problems	
Competency	Performance Indicators [TPS Level -- Verb]

2.1 Demonstrate competence in Identifying and Formulating Complex Urban Problems.	2.1.1 Evaluate and formulate clear, researchable planning problems from complex, unstructured real-world urban scenarios encompassing multiple sectors. [TPS 5 – Evaluate]
2.2 Demonstrate competence in Spatial and Statistical Data Analytics.	2.2.1 Analyse complex quantitative and qualitative datasets using statistical and spatial tools to establish empirical evidence for urban phenomena. [TPS 4 – Analyse]
2.3 Demonstrate competence in Evaluating Environmental and Infrastructure Deficits.	2.3.1 Critically evaluate existing infrastructure networks and environmental systems to diagnose capacity constraints and ecological vulnerabilities. [TPS 5 – Evaluate]
2.4 Demonstrate competence in Critical Review of Urban Policies and Literature	2.4.1 Synthesize and evaluate existing planning literature, policy documents, and regulatory frameworks to substantiate the need for spatial interventions. [TPS 5 – Evaluate]

PO3 – Development of Planning Solutions Prepare comprehensive spatial plans, policies, and regulatory mechanisms that address socio-economic and statutory requirements.	
Competency	Performance Indicators [TPS Level -- Verb]
3.1 Demonstrate competence in Comprehensive Development Plan Formulation.	3.1.1 Design holistic master plans and regional plans that integrate land use, transportation, infrastructure, and environmental conservation. [TPS 6 – Create]
3.2 Demonstrate competence in Micro-Level Spatial Planning and Urban Design.	3.2.1 Create localized spatial solutions, such as Town Planning Schemes (TPS) and Transit-Oriented Development (TOD) nodes, optimizing public-private land utilization. [TPS 6 – Create]
3.3 Demonstrate competence in Policy Formulation and Regulatory Drafting.	3.3.1 Formulate effective urban policies, development control regulations (DCR), and zoning byelaws to manage and direct spatial growth. [TPS 6 – Create]

3.4 Demonstrate competence in Infrastructure and Service Delivery Design.	3.4.1 Design integrated infrastructure augmentation plans that optimize the delivery of water, sanitation, and mobility services for projected demographic loads. [TPS 6 – Create]
---	--

PO4 – Research Methodology and Investigation

Conduct evidence-based urban research using data, spatial analytics, and policy evaluation tools.

Competency	Performance Indicators [TPS Level -- Verb]
4.1 Demonstrate competence in Research Design and Methodological Application.	4.1.1 Conduct systematic investigation and design rigorous research methodologies incorporating appropriate sampling and analytical frameworks. [TPS 4 – Analyze]
4.2 Demonstrate competence in Primary Data Collection and Field Investigations.	4.2.1 Collect, document, and analyze primary data from field surveys, stakeholder interviews, and participatory appraisals. [TPS 4 – Analyze]
4.3 Demonstrate competence in Predictive Modeling and Scenario Building.	4.3.1 Analyze forecasting models and scenario-building tools to predict future demographic, economic, and spatial trends. [TPS 4 – Analyze]
4.4 Demonstrate competence in Contextual and Evidence-Based Design Studies.	4.4.1 Apply evidence-based global planning precedents, extracting scalable strategies while acknowledging contextual limitations. [TPS 3 – Apply]

PO5 – Advanced Spatial Analytic Skills

Use advanced digital tools, GIS, and spatial analytics in urban planning and policy communication.

Competency	Performance Indicators [TPS Level -- Verb]
5.1 Demonstrate competence in Geographic Information Systems (GIS) and Mapping.	5.1.1 Apply advanced GIS tools to capture, store, manipulate, analyze, and visualize spatial and non-spatial data for comprehensive plan preparation. [TPS 3 – Apply]

5.2 Demonstrate competence in Remote Sensing and Photogrammetry.	5.2.1 Apply digital representation tools and remote sensing technologies to assess land cover changes and urban sprawl. <i>[TPS 3 – Apply]</i>
5.3 Demonstrate competence in Urban Simulation and Predictive Software.	5.3.1 Apply urban simulation models and transport modeling software to evaluate the impact of proposed infrastructure networks. <i>[TPS 3 – Apply]</i>
5.4 Demonstrate competence in Digital Governance and Smart City Technologies.	5.4.1 Apply contemporary digital twin concepts, IoT data, and smart city dashboards to support real-time urban governance <i>[TPS 3 – Apply]</i>

PO6 – Environmental Planning, Sustainability, and Resilience Sustainability and Environment - Design regional and urban plans addressing climate change resilience, ecological conservation, and disaster risk reduction.	
Competency	Performance Indicators [TPS Level -- Verb]
6.1 Demonstrate competence in Climate Change Adaptation and Mitigation Strategies.	6.1.1 Design climate-responsive spatial strategies and climate action plans that reduce urban greenhouse gas emissions and enhance hazard resilience. <i>[TPS 6 – Create]</i>
6.2 Demonstrate competence in Environmental Impact Assessment (EIA) and Auditing.	6.2.1 Apply ecological principles and statutory EIA frameworks to evaluate the environmental consequences of large-scale urban projects. <i>[TPS 3 – Apply]</i>
6.3 Demonstrate competence in Ecological Conservation and Resource Management.	6.3.1 Design integrated regional spatial plans that preserve sensitive ecological zones, protect watersheds, and optimize natural resources. <i>[TPS 6 – Create]</i>
6.4 Demonstrate competence in Disaster Risk Reduction and Emergency Planning.	6.4.1 Apply disaster management frameworks and vulnerability assessments into urban development plans to minimize risk to life and infrastructure. <i>[TPS 3 – Apply]</i>

PO7 – Society, Ethics, Equity, and Inclusion Apply principles of professional ethics, equity, spatial inclusivity, and social responsibility.	
Competency	Performance Indicators [TPS Level -- Verb]
7.1 Demonstrate competence in Social Justice and Equitable Resource Distribution.	7.1.1 Apply ethical frameworks and social justice principles to formulate spatial policies that address the needs of marginalized communities. <i>[TPS 3 – Apply]</i>
7.2 Demonstrate competence in Participatory Planning and Community Engagement.	7.2.1 Design inclusive participatory planning and community engagement processes to ensure diverse citizen voices shape spatial decisions. <i>[TPS 6 – Create]</i>
7.3 Demonstrate competence in Cultural Heritage and Social Cohesion.	7.3.1 Apply awareness of cultural heritage and community values to develop contextually sensitive conservation and heritage management plans. <i>[TPS 3 – Apply]</i>
7.4 Demonstrate competence in Professional Ethics and Integrity.	7.4.1 Apply professional codes of ethics, legal obligations, and transparent governance to safeguard the public interest. <i>[TPS 3 – Apply]</i>

PO8 – Multi-disciplinary Teamwork and Leadership Function effectively in multidisciplinary teams and leadership roles for complex urban projects.	
Competency	Performance Indicators [TPS Level -- Verb]
8.1 Demonstrate competence in Multi-Disciplinary Collaboration.	8.1.1 Engage in collaborative practice with industry partners and institutional stakeholders to develop professionally relevant skills. <i>[TPS 3 – Apply]</i>
8.2 Demonstrate competence in Stakeholder Management and Negotiation.	8.2.1 Lead and coordinate multidisciplinary teams effectively to deliver architectural projects within defined objectives and constraints. <i>[TPS 3 – Apply]</i>

8.3 Demonstrate competence in Institutional Coordination and Governance.	8.3.1 Apply project management principles to navigate complex institutional frameworks and coordinate efforts across municipal agencies. <i>[TPS 3 – Apply]</i>
8.4 Demonstrate competence in Leadership and Personal Growth.	8.4.1 Demonstrate self-awareness and emotional intelligence to contribute positively to team dynamics and professional development. <i>[TPS 3 – Apply]</i>

PO9 – Communication and Documentation Communicate complex spatial ideas, policies, and data effectively.	
Competency	Performance Indicators [TPS Level -- Verb]
9.1 Demonstrate competence in Data Visualization and Spatial Cartography.	9.1.1 Produce clear and professional spatial cartography and data visualizations that effectively translate complex urban data for the public. <i>[TPS 3 – Apply]</i>
9.2 Demonstrate competence in Verbal, Written and Visual Presentation Skills.	9.2.1 Communicate planning proposals through structured verbal presentations, written reports, and visual media to academic juries and municipal councils. <i>[TPS 3 – Apply]</i>
9.3 Demonstrate competence in Technical Documentation and Statutory Writing.	9.3.1 Prepare accurate statutory documents, development control regulations, and policy briefs in accordance with professional legal standards. <i>[TPS 3 – Apply]</i>
9.4 Demonstrate competence in Communication through Digital and Multimedia Tools.	9.4.1 Apply digital and multimedia communication platforms to disseminate planning proposals and facilitate transparent public review. <i>[TPS 3 – Apply]</i>

PO10 – Governance, Finance, Management, and Professional Practice Understand urban governance, municipal finance, project appraisal, and planning consultancy.	
Competency	Performance Indicators [TPS Level -- Verb]
10.1 Demonstrate competence in Municipal Finance and Urban Economics.	10.1.1 Apply knowledge of professional procedures, contracts, and practice management to operate effectively within the architectural profession. [TPS 3 – Apply]
10.2 Demonstrate competence in Project Appraisal and Feasibility Studies.	10.2.1 Apply cost planning and construction management principles to control project budgets and delivery timelines. [TPS 3 – Apply]
10.3 Demonstrate competence in Entrepreneurship, Consultancy and Practice Management.	10.3.1 Explain emerging global trends, technologies, and practices relevant to professional architectural practice. [TPS 6 – Create]
10.4 Demonstrate competence in Adaptability to Emerging Trends and Global Practices.	10.4.1 Understand global urban paradigms, emerging financial models, and legal frameworks to ensure compliant planning practice. [TPS 2 – Understand]

PO11– Lifelong Learning and Adaptability to Global Trends Engage in continuous learning and self-development.	
Competency	Performance Indicators [TPS Level -- Verb]
11.1 Demonstrate competence in Internship, Professional Training and Career Development.	11.1.1 Engage in structured internship and professional training experiences to develop industry-relevant competencies and career readiness. [TPS 3 – Apply]
11.2 Demonstrate competence in Lifelong Learning and Knowledge Enhancement.	11.2.1 Demonstrate commitment to continuous self-directed learning and knowledge enhancement in response to evolving urban legislation. [TPS 2 – Understand]

11.3 Demonstrate competence in Self-awareness, Leadership and Holistic Development.	11.3.1 Reflect on personal strengths, values, and professional goals to support holistic growth and leadership development in planning. <i>[TPS 2 – Understand]</i>
11.4 Demonstrate competence in Adaptability to Emerging Trends and Global Practices.	11.4.1 Evaluate and adapt to emerging technological disruptions (e.g., AI in urban analytics) to remain current and effective as a professional planner. <i>[TPS 5 – Evaluate]</i>

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
M1	S	S	M	M	S	M	M	M	S	M	S
M2	M	M	M	M	M	M	S	S	M	S	M
M3	M	M	S	M	M	S	S	S	M	S	M
M4	S	S	M	S	S	S	S	M	M	M	M
M5	M	M	S	S	M	M	M	S	S	S	S

L - Low; M – Medium; S – Strong

Programme Specific Outcomes (PSO):

After the successful completion of the M.Plan (Urban Planning) degree programme:

PSO1: Graduates shall apply planning theories, spatial analysis techniques, geospatial technologies, and interdisciplinary knowledge for the preparation, implementation, and management of inclusive, resilient and sustainable urban areas.

PSO2: Graduates shall demonstrate contemporary professional competencies in ethics, governance, leadership, and communication to effectively collaborate with multidisciplinary teams, government agencies, and communities for the formulation, implementation, and management of inclusive, resilient, and sustainable urban policies and projects.

PSO3: Graduates shall engage in continuous learning, research, innovation, and ethical professional practice to contribute effectively to planning, policy formulation, governance, and community development

Passed in BOS Meeting on 29.05.2026

Approved in 71st Academic Council Meeting 27.06.2026

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI – 625015

FACULTY OF PLANNING

SCHEDULING OF COURSES (For the candidates admitted from 2026-2027 onwards)

SCHEDULE OF COURSES (For the candidates admitted from 2020-2021 onwards)							
SEM	PROFESSIONAL CORE COURSES-Theory (THEORY)			PROGRAMME ELECTIVE COURSES - (THEORY) (2)	PROFESSIONAL CORE COURSES THEORY CUM STUDIO(Skill based CBT exams will be held)	PROFESSIONAL CORE COURSE STUDIO	TOTAL HOURS/ CREDITS
I	26UPCA0 Foundations of Spatial Planning and Regionalism (PCC)	26UPCB0 Habitat Ecosystems (PCC)	26UPCC0 Political Economy of Urban Spaces (PCC)		26UPCD0 Geospatial Data and City Analytics (PCC)	26UPCE0 Community and Layout Planning Studio (PCC)	20
	2	2	2		2	12	
II	26UPCF0 Planning for Resilient City Ecosystems (PCC)	26UPCG0 Urban Administration and Legal Frameworks (PCC)	26UPCH0 Planning for Urban Infrastructure (PCC)	26UPRA1 Urban Design / 26UPRB1 Inclusive Planning (PEC)	26UPCJ0 Traffic and Transportation Planning (PCC)	26UPCK1 Urban Regeneration and Resilience Studio (PCC)	22
	2	2	2	2	2	12	
26UPTA1 Field Internship and Thesis Phase 1							
III	26UPCL0 Urban Finance and Capital Strategies (PCC)	26UPCM0 Public Policy and Strategic Governance (PCC)	26UPCN0 Research writing (PCC)	26UPQA1 Real Estate / 26UPQB1 Tourism Planning (PEC)	26UPCP0 Field Internship and Thesis Phase 1 (PCC)	26UPCQ0 Comprehensive Development Plan Studio (PCC)	26
	2	2	2	2	6	12	
IV	26UPCR0 Urban Project Management and Ethics (PCC)		-	-	-	26UPDP0 Planning Thesis (14) (PCC)	16
	2					14	
Professional Core Courses (PCC) = 78 Credits; Program Elective Courses (PEC) = 6 Credits (offered in Semesters II & III); TOTAL CREDITS = 84 CREDITS MINIMUM.						Total Credits	84

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI- 625150
 (A Govt. Aided, Autonomous Institution affiliated to Anna University)
THIAGARAJAR SCHOOL OF ENVIRONMENTAL DESIGN AND ARCHITECTURE
 (For the candidates admitted from 20226-2027)

COURSES OF STUDY

Professional Core Courses

S.N O	Course Code	Name of the Course	Number of Hours/ Week			Cre dit	Semester/ Prerequisite
			L	T	s		
1	26UPC A0	Foundations of Spatial Planning and Regionalism	2	0	0	2	I SEM & ABOVE
2	26UPC B0	Habitat Ecosystems	2	0	0	2	I SEM & ABOVE
3	26UPC C0	Political Economy of Urban Spaces	2	0	0	2	I SEM & ABOVE
4	26UPC D0	Geospatial Data and City Analytics	1	0	1	2	I SEM & ABOVE
5	26UPC E0	Community and Layout Planning Studio	0	0	12	12	I SEM & ABOVE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI- 625150
(A Govt. Aided, Autonomous Institution affiliated to Anna University)
THIAGARAJAR SCHOOL OF ENVIRONMENTAL DESIGN AND ARCHITECTURE

**SCHEME OF
EXAMINATIONS
(For the candidates admitted from 2026-2027 onwards)
FIRST SEMESTER**

S.No	Course Code	Name of the Course	Duration of Terminal in Hrs. Exam	Marks			Minimum Marks for Pass	
				Assessment Continuous	Terminal Exam	Max Marks	Terminal Exam	Total
1	26UPC A0	Foundations of Spatial Planning and Regionalism	3	40	60	100	45	50
2	26UPC B0	Habitat Ecosystems	3	40	60	100	45	50
3	26UPC C0	Political Economy of Urban Spaces	3	40	60	100	45	50
4	26UPC D0	Geospatial Data and City Analytics	3	40	60	100	45	50
5	26UPC E0	Community and Layout Planning Studio		60	40	100	45	50