

SEMESTER-III

Urban Design Studio-3 Integrated with UDPT			
Course Code	2MAUD301	Scheme	2026-27
Type of Course	IPCC	Semester	III
Teaching Hours/Week (L:T:P)	10 Hours/week	CIE Marks	50
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	28:00:112:130=270	SEE Marks	50
Credits	09	Total Marks	100
Examination type (SEE)	VIVA VOCE	Exam Hours	20min/candidate
Course outcome (Course Skill Set) 1. Ability to study urban environment and its influence by policy and its ability to make positive effect on urban environment 2. Ability to demonstrate design skill and detail at built/space level. The primary goal of the Integrated studio shall be to look at “urban design proposal” as a catalytic force in ensuring future growth with “design” content, yet feasible within the existing policy, economic and political frame work. The objectives of the studio are a) To understand and evolve policy level guidelines which ensure an imagined future physical scenario, b) To understand the process of evolving urban design guidelines c) To illustrate such guidelines with a multiuse facility.			
Studio Outline The chosen project shall be in an area of high potential in an identified urban environment. Project proposals shall be divided into two phases in which a policy and guideline evolution shall precede the actual design project. The project would involve a) identification of various stake holders and their role in policy level guidelines, and b) working and illustrating the economic feasibility and infrastructure development needed for implementation of proposal. The project shall end in a detailed design of a group of buildings or (depending on the scale) an architectural project which illustrates the process of urban design as a necessary and inevitable need for architectural projects. Teaching Learning Process: Lecture sessions, Site visits, Student presentations, Group discussions and presentation, Periodic Reviews, Workshops are part of the Teaching Learning Process			
Suggested Learning Resources: (Text Book/ Reference Book/ Manuals): 1. The Kinetic City & Other Essays, Rahul Mehrotra, ArchiTangle GmbH; 2021 2. Public Places Urban Spaces: The Dimensions of Urban Design-Matthew Carmona 3. The Cultured Landscape: Designing the Environment in the 21st Century- Ken Fieldhouse and Sheila Harvey.			

Web links and Video Lectures (e-Resources):

1. <https://www.youtube.com/watch?v=HBMIQZeXMiA>
2. <https://www.youtube.com/watch?v=sw9zpH717ts>
3. <https://www.youtube.com/watch?v=ys07tEScaSo>

Suggested Learning Activities:

1. Group or individual case studies can be encouraged.
2. Reading sessions, Group discussions and debate can be enforced.
3. Master class guest talk can be conducted

Assessment Structure:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each carrying 50% weightage.

- To qualify and become eligible to appear for SEE, in the **CIE**, a student must score at least **50 % of maximum Marks for CIE**,
- To pass the **SEE**, a student must score at least **40 % of Maximum marks for SEE**.
- Notwithstanding the above, a student is considered to have **passed the course**, provided the combined total of **CIE and SEE** is at least **50 out of 100 marks**.

Continuous Internal Evaluation: Continuous Internal Evaluation will be based on Internal Reviews, External Reviews and Final studio report and individual project Submission/VIVA VOCE

Semester End Examination: Viva-voce: The viva voce shall be conducted for a duration of 20 minutes (per Candidate) for the subjects listed under viva voce for all the semesters

Politics of development			
Course Code	2MAUD302A	Scheme	2026-27
Type of Course	Professional Elective Course-V	Semester	III
Teaching Hours/Week (L:T:P)	03Hours/week	CIE Marks	100
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	42:00 :00 :48 =90	SEE Marks	00
Credits	03	Total Marks	100
Examination type (SEE)	NA	Exam Hours	NA
Course outcome (Course Skill Set)			
Course Learning Objectives: To critically discuss the motives and actions of different actors of state and society in driving urban development and distribution of resources in the city.			
Course outline the course explores the impact of the intentions, conflicting interests, pressures and policies on the social and morphological dimensions of the city. Various issues pertaining to			

the role of different actors in shaping urban developmental projects are discussed, using papers and literature on those topics. Topics discussed in this weekly four-hour class include public and private developmental project, design commissions, social planning and spatial planning and planning processes in Indian cities.

Teaching Learning Process: Introduce each subsection through talk/presentation, case study and generate discussion through article reading

Suggested Learning Activities:

1. Group or individual case studies can be encouraged.
2. Reading sessions, Group discussions and debate can be enforced.
3. Master class guest talk can be conducted

Web links and Video Lectures (e-Resources):

1. <https://www.youtube.com/watch?v=mo3Gghkh49U>
2. <https://www.youtube.com/watch?v=tkXlu34naUE>

Suggested Learning Activities:

1. mapping of stake holders and their interest
2. project framework and stake holders interest mapping chronologically
3. project interest at larger scale and stake holders

Assessment Structure:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) with carrying 100% weightage. To qualify and become eligible in the **CIE**, a student must score at least **50 % of maximum Marks for CIE**

Continuous Internal Evaluation (CIE):

Continuous Internal Evaluation will be based on weekly assignments, class presentations, participation in seminar discussions and term paper / report submission.

Semester End Examination (SEE): NA

Regenerative Climate Urbanism			
Course Code	2MAUD302B	Scheme	2026-27
Type of Course	Professional Elective Course-V	Semester	III
Teaching Hours/Week (L:T:P)	03Hours/week	CIE Marks	100
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	42:00 :00 :48 =90	SEE Marks	00
Credits	03	Total Marks	100
Examination type (SEE)	NA	Exam Hours	NA

Course outcome (Course Skill Set) Ability to understand, map, cities as complex adaptive systems that interlaced with natural landscapes. Regenerative Climate Urbanism, focus on the active ecological restoration and its related systems in urban area. The course will cover broader definition and changing/shifting scope of urban climatology, living systems design, Socio ecological systems, Sustainability to Regeneration etc.
Suggested Learning Resources: (Text Book/ Reference Book/ Manuals): 2. Regenerative Urban Design and Ecosystem Biomimicry- Maibritt Pedersen Zari 3. Design for Regenerative Cities and Landscapes: Rebalancing Human Impact and Natural Environment- Editor Prof. Dr. Rob Roggema
Web links and Video Lectures (e-Resources): As per the suggestion and recommendation of the faculty
Suggested Learning Activities: 1. Group or individual case studies can be encouraged. 2. Reading sessions, Group discussions and debate can be enforced. 3. Master class guest talk can be conducted
Assessment Structure: The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) with carrying 100% weightage. To qualify and become eligible in the CIE, a student must score at least 50 % of maximum Marks for CIE
Continuous Internal Evaluation (CIE): Continuous Internal Evaluation will be based on weekly assignments, class presentations, participation in seminar discussions and term paper / report submission.
Semester End Examination (SEE): NA

Disaster Management			
Course Code	2MAUD302C	Scheme	2026-27
Type of Course	Professional Elective Course-V	Semester	III
Teaching Hours/Week (L:T:P)	03Hours/week	CIE Marks	100
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	42:00 :00 :48 =90	SEE Marks	00
Credits	03	Total Marks	100
Examination type (SEE)	NA	Exam Hours	NA

Course outcome (Course Skill Set) Ability to understand the urban processes that focus on infrastructure systems on vulnerability reduction and address the issues of managing the disaster by design remedies such as adaptive spatial design and post-disaster reconstruction. The course structured around the historical patterns and issues related to natural disaster such as flood, earthquakes, cyclones at various scale. Also explore the design remedies such as resilient utility networks, decentralized infrastructure, emergency measures, integrating blue green networks, flood mitigation, regulations and guidelines etc.
Suggested Learning Resources: (Text Book/ Reference Book/ Manuals): 1. Urban Disaster Resilience: New Dimensions from International Practice by David Sanderson, Jerold S. Kayden, and Julia Leis 2. Recovery from Disaster by Ian Davis and David Alexander 3. Toward an Urban Ecology by Kate Orff / SCAPE
Web links and Video Lectures (e-Resources): As per the suggestion and recommendation of the faculty
Suggested Learning Activities: 1. Group or individual case studies can be encouraged. 2. Reading sessions, Group discussions and debate can be enforced. 3. Master class guest talk can be conducted
Assessment Structure: The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) with carrying 100% weightage. To qualify and become eligible in the CIE, a student must score at least 50 % of maximum Marks for CIE
Continuous Internal Evaluation (CIE): Continuous Internal Evaluation will be based on weekly assignments, class presentations, participation in seminar discussions and term paper / report submission.
Semester End Examination (SEE): NA

AI and Urban analytics			
Course Code	2MAUD302D	Scheme	2026-27
Type of Course	(Professional Elective Course-V)	Semester	III
Teaching Hours/Week (L:T:P)	03Hours/Week	CIE Marks	100
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	42:00 :00 :48 =90	SEE Marks	00

Credits	03	Total Marks	100
Examination type (SEE)	NA	Exam Hours	NA
Course outcome (Course Skill Set) Artificial Intelligence and Urban Analytics covers computational spatial science, machine learning for spatial planning, and generative urban design this includes, foundational theory, data processing, and hands-on algorithmic modelling • Introduction to urban informatics and the science of cities, Data related to city such as Open-source spatial data repositories, census data etc • Introduction to Python/R programming for spatial data handling, Vector and raster data structures, cleaning, and preprocessing • Advanced Geographic Information Systems (GIS) in urban design, drone imagery, and computer vision for land-use classification, hotspot detection, machine learning algorithms for urban datasets. • Predicting urban growth, land-cover changes, and real-time mobility patterns, Human activity tracking, foot-traffic simulation, and spatial interaction models, Network analysis for pedestrian and vehicular circulation efficiency, Machine learning for microclimate, solar radiation, and wind-flow simulation, Digital twins and real-time responsive urban spaces. • Case studies on smart city implementations global.			
Suggested Learning Resources: (Text Book/ Reference Book/ Manuals): As per the faculty guidance and references			
Web links and Video Lectures (e-Resources): As per the suggestion and recommendation of the faculty			
Suggested Learning Activities: The software or programming language you want emphasized (e.g., Python, Grasshopper, ArcGIS)			
Assessment Structure: The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) with carrying 100% weightage. To qualify and become eligible in the CIE, a student must score at least 50 % of maximum Marks for CIE			
Continuous Internal Evaluation (CIE): Continuous Internal Evaluation (CIE): Continuous Internal Evaluation will be based on weekly assignments, class presentations, participation in seminar discussions and term paper / report submission.			

Semester End Examination (SEE): NA

Dissertation Phase I			
Course Code	2MAUD303	Scheme	2026-27
Type of Course	PCC	Semester	III
Teaching Hours/Week (L:T:P)	05Hours/Week	CIE Marks	50
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	28:00:42:110=180	SEE Marks	50
Credits	06	Total Marks	100
Examination type (SEE)	TW	Exam Hours	NA
A studio class where third semester students undertake various reading and writing exercises in the process of identifying and refining their dissertation topics. Outline: 1. This course is intended to help students to arrive at a conceptual framework for their dissertation Phase-II in the IV semester. 2. The final product at the end of course shall be a proposal that provides a detailed dissertation proposal that consists of a working title, literature review, objectives, and study methodology. 3. The course will be run as a weekly four-hour seminar class with student presentations on issues related to their chosen dissertation topics.			
Teaching Learning Process: Introduction to the course content through subject introduction, discussion, debate and presentation			
Suggested Learning Resources: (Text Book/ Reference Book/ Manuals): 1. Proceedings: 2nd IUDI National Urban Design Thesis Seminar 2010, held at CEPT University, Ahmedabad, 29th-30th October 2010 by compiled and edited by P.V.K. Rameshwar 2. Architectural Research Methods- by Linda N. Groat and David Wang 3. Writing your doctoral Dissertation –invisible rules for success –Rita S Brause			
Web links and Video Lectures (e-Resources): 1. https://www.youtube.com/watch?v=r0MfpzITGrU			
Suggested Learning Activities: 1. Systematic approach in cataloguing the readings, references and bibliography. 2. Writing the dissertation synopsis			

Assessment Structure:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each carrying 50% weightage.

- To qualify and become eligible to appear for SEE, in the **CIE**, a student must score at least **50 % of maximum Marks for CIE**,
- To pass the **SEE**, a student must score at least **40 % of Maximum marks for SEE**. Notwithstanding the above, a student is considered to have **passed the course**, provided the combined total of **CIE and SEE** is at least **50 out of 100 marks**.

Continuous Internal Evaluation (CIE):

The weight age of Continuous Internal Evaluation (CIE) is 100%. The minimum passing mark for the CIE is 50% of the maximum marks.

Continuous Internal Evaluation: Continuous Internal Evaluation will be based on assignments, site observation, individual assignment/ presentation, research paper and submission of assignment as term work portfolio along with necessary drawings, maps to suitable scale as per the instruction.

Semester End Examination (SEE):

individual or group assignments compiled as portfolio evaluated as Term Work (TW)

SEMESTER-IV

Dissertation Phase II			
Course Code	2MAUD401	Scheme	2026-27
Type of Course	PCC	Semester	IV
Teaching Hours/Week (L:T:P)	10Hours/Week	CIE Marks	100
Total Hours of Pedagogy per semester L /T/S/P/SL&TW:	56:00:84:250=390	SEE Marks	100
Credits	13	Total Marks	200
Examination type (SEE)	VIVA VOCE	Exam Hours	30min/Stu dent

Course Learning Objectives:

Students should be proficient in Process that involves in urban design professional practice and research .

1. To demonstrate the ability to comprehend the nature of urban design problem and create a brief which sets the framework for design.
2. To demonstrate an advanced level of design ability to convert the brief set forth into a speculative proposition of design.
3. To articulate and delineate the proposition of design into an urban design solution addressing all the dimensions.
4. Alternatively, the dissertation could be a research topic based on the accepted norms of scientific research methods

Studio Outline

1. The dissertation can either be scholarly research on an issue (or set of issues) which has a bearing on urban development or a project with a clearly demonstrated design development process. The project shall demonstrate competence in integrating various issues of social, formal and urbanistic concerns into the design. An ideal project shall be one in which there is an informed critique on the conventional or prevalent models of creating urban design, leading to a simple question and an answer which shall be through the demonstration of an alternative proposition.
2. In the case of purely written dissertation which ends with policy or design guidelines, research design shall be as per the accepted norms of scientific research methods. Documentation or merely describing existing situation shall not be considered as dissertation.