

# **Maharashtra Institute of Technology**

## **Chhatrapati Sambhajinagar**

**An Autonomous Institute Affiliated to  
Dr. Babasaheb Ambedkar Marathwada University,  
Chhatrapati Sambhajinagar, Maharashtra (India)**

**Master of Architecture (Urban Design)  
M. Arch (UD) Syllabus Structure**

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**WEF AY 2024-25**

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# Maharashtra Institute of Technology

Chhatrapati Sambhajinagar  
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## Abbreviations used in this document

<b>ARC</b>	<b>Architecture</b>
AT	Architectural Thesis
BSAE	Building Science and Applied Engineering
CIE	Continuous Internal Evaluation
ESE	End-Semester Examination
Hrs	Hours
L	Lecture (Theory)
<b>MIT</b>	<b>Maharashtra Institute of Technology</b>
MSE	Mid-Semester Examination
OE	Open Elective Course
PAECC	Professional Ability Enhancement Compulsory course
PE	Professional Elective Course
PC	Professional Core Course
PT	Professional Training
RP	Research Project
S	Studio
SEC	Skill Enhancement Course
UD	Urban Design
WEF	With Effect From
Wk	Week

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## First Year M. Arch (Urban Design) Syllabus Structure (Pattern 2024-25)

### SEMESTER-I

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD101	Urban Design Studio I	0	9	0	9	9	0	100	0	200	300
2	PC	MUD102	Theory and Methods of Urban Design	2	0	0	2	2	25	25	50	0	100
3	PC	MUD103	Planning Techniques & Procedures I	2	0	0	2	2	25	25	50	0	100
4	PC	MUD104	Urban Design History	2	0	0	2	2	25	25	50	0	100
5	PE	MUD 106 -108	Professional Elective – I	1	0	4	5	3	0	50	0	0	50
6	SEC	MUD111	Geographic Information System	1	0	2	3	2	0	50	0	0	50
S1			<b>Total</b>	<b>8</b>	<b>9</b>	<b>6</b>	<b>23</b>	<b>20</b>	<b>75</b>	<b>275</b>	<b>150</b>	<b>200</b>	<b>700</b>

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### SEMESTER-II

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD151	Urban Design Studio II	0	9	0	9	9	0	100	0	200	300
2	PC	MUD152	Planning Techniques & Procedures II	2	0	0	2	2	25	25	50	0	100
3	PC	MUD153	Urban Sociology	2	0	0	2	2	25	25	50	0	100
4	PE	MUD 156 -158	Professional Elective –II	1	0	4	5	3	0	50	0	0	50
5	SEC	MUD161	Urban Ecology	1	0	2	3	2	0	50	0	0	50
6	EECC	MUD166	Research Methodology	2	0	0	2	2	25	25	50	0	100
S2			<b>Total</b>	<b>8</b>	<b>9</b>	<b>6</b>	<b>23</b>	<b>20</b>	<b>75</b>	<b>275</b>	<b>150</b>	<b>200</b>	<b>700</b>

L-Lecture, S-Studio, Lab-Laboratory, MSE- Mid Semester Examination, CIE- Continuous Internal Evaluation, ESE- End Semester Examination

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## First Year M. Arch (Urban Design) Syllabus Structure (Pattern 2024-25)

### SEMESTER-I

#### Professional Elective I Basket:

Course Code	Course Title
MUD 106	Indian Urbanism
MUD 107	Comparative Urbanism
MUD 108	Contemporary Theories in Urban Design

### SEMESTER-II

#### Professional Elective II Basket:

Course Code	Course Title
MUD 156	Imagining Cities
MUD 157	Structure as Expression of Urban Morphology
MUD 158	Art and Science of Conservation

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## Second Year M. Arch (Urban Design) Syllabus Structure (Pattern 2024-25)

### SEMESTER-III

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD201	Urban Design Studio III	0	9	0	9	9	0	150	0	150	300
2	PC	MUD202	Urban Byelaws & Planning Legislation	2	0	0	2	2	25	25	50	0	100
3	PC	MUD203	Development Finance	2	0	0	2	2	25	25	50	0	100
4	PC	MUD204	Urban Mobility	2	0	0	2	2	25	25	50	0	100
5	PC	MUD205	Seminar-Thesis Programming	1	0	2	3	2	0	0	0	50	50
6	PE	MUD 206 - 208	Professional Elective III (MOOC Courses)	1	0	4	5	3	0	50	0	0	50
7	EECC	MUD266	Professional Training*	* Professional training of Eight-week duration should be carried out during the break of Third & Fourth semester and certificate needs to be produced. The evaluation of the said training will be carried out at the End Semester Examination at Fourth semester.									
S3			Total	8	9	6	23	20	75	275	150	200	700

### SEMESTER-IV

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD251	Urban Design Thesis	0	12	0	12	12	0	250	0	250	500
2	EECC	MUD266	Professional Training	0	0	0	0	8	0	100	0	100	200
S4			Total	0	12	0	12	20	0	350	0	350	700

L-Lecture, S-Studio, MSE- Mid Semester Examination, CIE- Continuous Internal Evaluation, ESE- End Semester Examination

### Professional Elective III (MOOC Courses # ) Basket:

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Course Code	Course Title
MUD 206	Urban Governance and Development Management
MUD 207	Urban Utilities Planning : Water Supply, Sanitation and Drainage
MUD 208	Housing Policy and Planning

# These courses may change as per the approval of BOS and AC, if not available at the time of study.

### Note:

Final Degree class/ Division and Marks/ Percentage/ Credit/ Grade needs to be given as average score of all 4 Semester, with the subject of Urban Design. The research paper should be submitted in recognized National/International Journal during the second year of Masters. The research paper should be related to the Thesis topic selected for Semester of the Second year.

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### **Master of Architecture (Urban Design)**

### **Syllabus**

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## First Year M.Arch(Urban Design) Syllabus Structure (Pattern 2024-25)

### SEMESTER-I

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD101	Urban Design Studio I	0	9	0	9	9	0	100	0	200	300
2	PC	MUD102	Theory and Methods of Urban Design	2	0	0	2	2	25	25	50	0	100
3	PC	MUD103	Planning Techniques & Procedures I	2	0	0	2	2	25	25	50	0	100
4	PC	MUD104	Urban Design History	2	0	0	2	2	25	25	50	0	100
5	PE	MUD 106 -108	Professional Elective – I	1	0	4	5	3	0	50	0	0	50
6	SEC	MUD111	Geographic Information System	1	0	2	3	2	0	50	0	0	50
S1			Total	8	9	6	23	20	75	275	150	200	700

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### SEMESTER-II

Sr. No	Course Category	Course Code	Course Title	L	S	Lab	Hrs/ Week	Credits	MSE	CIE	ESE Theory	ESE Oral	Total Marks
1	PC	MUD151	Urban Design Studio II	0	9	0	9	9	0	100	0	200	300
2	PC	MUD152	Planning Techniques & Procedures II	2	0	0	2	2	25	25	50	0	100
3	PC	MUD153	Urban Sociology	2	0	0	2	2	25	25	50	0	100
4	PE	MUD 156 -158	Professional Elective –II	1	0	4	5	3	0	50	0	0	50
5	SEC	MUD161	Urban Ecology	1	0	2	3	2	0	50	0	0	50
6	EECC	MUD166	Research Methodology	2	0	0	2	2	25	25	50	0	100
S2			Total	8	9	6	23	20	75	275	150	200	700

L-Lecture, S-Studio, Lab-Laboratory, MSE- Mid Semester Examination, CIE- Continuous Internal Evaluation, ESE- End Semester Examination

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**SEMESTER-I**

**Professional Elective I Basket:**

Course Code	Course Title
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MUD 107	Comparative Urbanism
MUD 108	Contemporary Theories in Urban Design

**SEMESTER-II**

**Professional Elective II Basket:**

Course Code	Course Title
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MUD 157	Structure as Expression of Urban Morphology
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# **Semester-I**

## **Detail Course Curriculum**

**First Year**  
**Master of Architecture (Urban Design)**  
**Syllabus**

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## Faculty of Science & Technology Syllabus of First Year. M. Arch.(Urban Design)(Semester-I)

Course Category: <b>PC</b>		Credits: <b>09</b>
Course Code: <b>MUD101</b>		Examination Scheme
Course Name: <b>Urban Design Studio-I</b>		Mid-Semester Examination-Nil
Teaching Scheme	Studio (Hrs.) 09	MSE Duration NA <b>Continuous Internal Evaluation: 100 Marks</b> End Semester Examination Theory -Nil ESE theory Duration NA <b>End Semester Examination - Oral : 200 Marks</b>

<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>1. To understand the complexities of the 'Urban'</li> <li>2. To create an understanding of the role of various physical, social, economic and infrastructural components and decision-making processes; the contribution of related disciplines associated with the production of the city.</li> <li>3. To engages with a morphological and image structure survey / analysis of a selected part of a traditional urban area with detailed studies of urban landscape and streetscape.</li> <li>4. To exploration of the methods of documentation, analysis and interventions.</li> </ol>
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<b>Course Outcome</b>	Students will appreciate, understand, and analyze real site conditions in an urban area. Mapping multiple layers of urban complexities followed by design demonstration through drawings/models/sketches.
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Unit	Course Content	Hours
Unit 1	Urban design terminologies through readings, methods of surveys and mapping Techniques of tangible and intangible aspects of the urban environment.	32
Unit 2	Documentation and presentation techniques of a selected urban precinct. From infrastructure and urban management standpoint. Statistically and as a human network, through ownership, use cycles, association values.	56
Unit 3	Identification of problems and issues. Compiling the documentation as report. Analysis and study of relevant urban design case studies	28
Unit 4	Assessing needs and programming for design intervention. Conceptual Design Intervention	28

### References Books:

Sr. No.	Title	Author	Publisher
1	Image of the City	Kevin Lynch	The MIT Press
2.	Urban Transformation: Understanding City Form and Design	Bosselmann	Island Pr
3.	Concepts of urban design	Gosling, David	West Sussex, London etc Academy
4.	Urban design reader	Larice, Michael	London & New York Routledge 2007
5.	Urban design: method and techniques	Moughtin, Cliff & others	Oxford,Amsterdam,New York etc
6.	Urban design: the architecture of towns and cities	Spreiregen, Paul D	Berkley,P.A,NewYork,Tokyoetc McGraw

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

Course Category: <b>PC</b>		Credits: <b>02</b>	
Course Code: <b>MUD102</b>		Examination Scheme	
Course Name: <b>Theory and Methods of Urban Design</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration1 Hr	
Teaching Scheme	Lecture (Hrs.) 02	<b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE theory Duration 2 Hrs. End Semester Examination - Oral : Nil	
Course Objectives	1. To engage in urban design concepts, theories and methods of inquiry that are useful for urban design discourse and reflective practice, aiming at better programming and design. 2. To explore the ways of reading, experiencing, comprehending, analyzing, and representing, the urban context. 3. To understand existing modes of reading cities through the perceptual/cognitive theories, behavioral theories, psycho-geographical theories and other noted theoreticians. 4. To innovate in reading and analyzing urban settlements depending on the urban context they wish to engage. 5. To enhancing the skill set of the students, the course will run as a lateral to the design studio.		
Course Outcome	Students are exposed to different methodological approaches, technologies and foundation theories of urban design		
Unit	Course Content		Hours
Unit 1	Urban design terminologies and definitions. Cognitive mapping – contemporary and traditional. Concepts of place and space		08
Unit 2	Methods of urban design surveys, documentation and representation Space analysis		08
Unit 3	Determinants of urban form. Components of urban structure. Concepts of layering		08
Unit 4	Size, shape and form of cities. Typological studies and Architectural expression of cities		08

### Reference Books:

Sr. No.	Title	Author	Publisher
1	Image of the City	Kevin Lynch	The MIT Press
2.	The Concise Townscape	Gordon Cullen	Routledge Publication
3.	The Social Life of Small Urban Spaces	William H. Whyte	Project for Public Spaces Inc; 8th ed. Edition (31 January 1980)
4.	The Architecture of The City	Aldo Rossi	MIT Press
5.	Learning from Las Vegas	Robert Venturi, Denise Scott Brown, and Steven Izenour.	MIT Press
6.	The situationist city	Simon Sadler	MIT Press
7.	A Pattern Language	Christopher Alexander, Murray Silverstein, and Sara Ishikawa	Oxford University Press

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: PC</b>		<b>Credits: 02</b>	
<b>Course Code: MUD103</b>		Examination Scheme	
<b>Course Name: Planning Techniques &amp; Procedures I</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration1 Hr <b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE theory Duration 2 Hrs. End Semester Examination - Oral : Nil	
Teaching Scheme	Lecture (Hrs.) 02		
Course Objectives	1. To explore the range nuances and methods to understand the morphology of the city drawn broadly from disciplines of urbanism, geography, planning and legislative mechanisms. 2. To investigate theories of place making and the contribution of technology and economy leading to an understanding of what is “urban” today. 3. To understand planning and institutional framework available in the country, state and with local governments 4. To present legal framework for planning and type of plan prepared by various levels of governments, etc.		
Course Outcome	Students are exposed to theoretical discourse related to city space Economics, Politics and Governance using current practices and knowledge.		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	History and principles of planning in the international and national context,		08
Unit 2	Present planning and institutional framework available in the country, state and with local Governments		08
Unit 3	Introduction to present legal framework for planning,		08
Unit 4	Introduction to type of plan prepared by various levels of governments, etc.		08
<b>Reference Books:</b>			
<b>Sr. No.</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
1	Site Planning	Lynch Kevin And Hack Gary	The MIT Press
2.	Sustainable Urban Planning	Joy Sen	Teri Publication
3.	Planning For Urban Quality: Urban Design in Towns and Cities.	Parfect, Michael	London & New York Routledge
4.	City Of Tomorrow and Its Planning	Le Corbusier	London, England Etc Architectural
5.	New Towns: The Evolution of Planning Criteria	Porzecanski, M	Mbridge Uni. Press
6.	Cities Of Tomorrow	Peter Hall	Blackwell Publishing

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: PC</b>		<b>Credits: 02</b>	
<b>Course Code: MUD104</b>		Examination Scheme	
<b>Course Name: Urban Design History</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration1 Hr <b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE theory Duration 2 Hrs. End Semester Examination - Oral : Nil	
Teaching Scheme	Lecture (Hrs.) 02		
Course Objectives	1. To explore the evolution of ideas and principles of urban design by focusing on the relationship between societal change and the formal organization of the urban environment. 2. To understand historical, theoretical and critical lines of arguments will be pursued by examining urban places and spaces in their making, use and change, ranging from early civilizations to the present. 3. To understand the history and heritage of human settlements from ancient times. 4. To engage in comprehensive study of urban form and urban spaces in historical and theoretical terms.		
Course Outcome	Students are exposed to the historical evolution of urban space and understanding of the morphological dimensions of public spaces.		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	Introduction to urban design – ideology/theory and the various concerns of the field. Urban Design through history. Introduction and Study - the evolution of city form- morphology (Urban form and Urban Process). Various theoretical views associated with nature of city form - Normative and positive theories; Cosmic, Machine and Organic Models; Descriptive and functional theories; Alternative theoretical postulations.		06
Unit 2	Study of the evolution of urban form (western context) Chronological – Urban space through history (The Early Cities, Medieval Towns, Renaissance, Form of modern city; early cities of capitalism, City beautiful movement, Modern Movement, cities in the garden, cites of theory and sweat equity & highway.) City as patterns; diagrams; spaces and ideas (organic; grid; political functional- secularist- socialist diagrams; grand manner; skyline; city edge; urban division; public spaces- various typologies including street and parks; Islamic cities in the Middle East)Comparison between the various perspectives of studying and analyzing urban form- space; conservation and the life of urban form.		10
Unit 3	Understanding Urban Process (rise and fall of cities; disaster; destruction; humanization, haussmanization, incremental changes; urban renewal)Modern and post-modern urbanist theories (CIAM,Utopia; Lynch’s ideas of good city form; Imageability and Memory, public and private domains; Suburbs and periphery; Privacy, Territoriality and Proxemic theory; Defensible spaces; ideas of community through design; treatment of urban space; future of the city)		10
Unit 4	A critical understanding of changing attitudes towards urbanism and urban spaces A critical examination of current trends in contemporary architecture and planning in India		06
<b>Reference Books:</b>			
<b>Sr. No.</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
1	The City Assembled	Spiro Kostof	Thames and Hudson
2	History of urban form before the industrial revolutions	A.E.J. Morris	Routledge
3	Good City Form	Kevin Lynch	MIT Press
4	Design of Cities	Edmund Bacon	T&H Publication
5	The City In History	Lewis Mumford	Harcourt books
6.	The City Shaped	Kostof	Bullfinch





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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: PE</b>		<b>Credits: 03</b>	
<b>Course Code: MUD106</b>		Examination Scheme	
<b>Course Name: Professional Elective I – Indian Urbanism</b>		Mid-Semester Examination- Nil MSE Duration NA	
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Course Objectives	1. To study the elective subject through its theoretical and practical aspects 2. To understand the subject from experts and case studies to read and understand the contemporary issues related to Indian urbanism. 3. To understand the comprehensive nature of Urban Design 4. To expose students to city as a social construct through interactive learning. 5. To initiate critical thinking regarding the subject		
Course Outcome	The students are equipped to read and understand the contemporary issues related to urbanism so to understand the comprehensive nature of Urban Design.		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	Understanding of key issues of urbanism in India, its dilemmas, ideologies, and the new patterns that it has taken with neo-liberalism.		24
Unit 2	Debates on Indian cities through critical questions such as – about contribution to an understanding of the problems of the ideas of Indian city, is there an Indian urbanism. Indian urbanism with longer roots in the ways city space was conceived and used, and spatial practices determined		24
Unit 3	Issues of Indian urbanism related to polity and colonial legacy, ideology of tenure and exchange, environment and water, daily life and informal sector, gender, art and media in the city.		24
Unit 4	Indian urbanism specific to Indian context covering socio-cultural aspects of historical as well as modern era referring to non-spatial dimensions of urbanism beyond enclaves of planning, Tactical urbanism.		24
<b>Reference Books:</b>			
<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Publisher</b>
1.	Rediscovering the Hindu Temple: The Sacred Architecture and Urbanism of India	Vinayak Bharne	Cambridge Scholars Publishing
2.	Reclaiming (The Urbanism of) Mumbai	KELLY SHANNON	Sun Academia
3.	Death and Life of great American cities.	Jane Jacobs	Random House New York

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: PE</b>		<b>Credits: 03</b>
<b>Course Code: MUD107</b>		Examination Scheme
<b>Course Name: Professional Elective I : Comparative Urbanism</b>		Mid-Semester Examination-Nil MSE DurationNA
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil
Course Objectives	<ol style="list-style-type: none"> <li>1. To study the elective subject through its theoretical and practical aspects</li> <li>2. To understand the subject from experts and case studies to read and understand the contemporary issues related to urbanism.</li> <li>3. To understand the comprehensive nature of Urban Design</li> <li>4. To expose students to city as a social construct through interactive learning.</li> <li>5. To initiate critical thinking regarding the subject</li> </ol>	
Course Outcome	The students are equipped to read and understand the contemporary issues related to urbanism so to understand the comprehensive nature of Urban Design	
<b>Unit</b>	<b>Course Content</b>	<b>Hours</b>
Unit 1	Introduction to urbanism in the Asian context, its many facets compared to western cities, both functionally and in form.	24
Unit 2	Types of Indigenous contemporary settlements. – Comparison of functional structure of Western and Asian cities.	24
Unit 3	Nature of city form, climate, typologies, public space systems and architectural expression. – Cross – cultural influences in the development of city	24
Unit 4	Historic cores and contemporary urbanism. – Issues of growth and value additions in the context of globalization.	24

### Reference Books:

Sr. No.	Title	Author	Publisher
1.	Sustainable urbanism: urban design with nature.	Farr, Douglas	New Jersey John Wiley & Sons 2008
2.	The Fabric of Cities: Aspects of Urbanism, Urban Topography and Society in	Natalie N. May and Ulrike Steinert	Brill
3.	Combinatory Urbanism	Thom Mayne	
4.	Ecological Urbanism	Mohsen Mostafavi/ Gareth	Lars Müller Publishers, Baden, Switzerland

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: PE</b>		<b>Credits: 03</b>	
<b>Course Code: MUD108</b>		Examination Scheme	
<b>Course Name: Professional Elective I: Contemporary Theories in Urban Design</b>		Mid-Semester Examination-Nil MSE DurationNA	
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Course Objectives	1. To study the elective subject through its theoretical and practical aspects 2. To understand the subject from experts and case studies to read and understand the contemporary issues related to urbanism. 3. To understand the comprehensive nature of Urban Design 4. To expose students to city as a social construct through interactive learning. 5. To initiate critical thinking regarding the subject		
Course Outcome	The students are equipped to read and understand the contemporary issues related to urbanism so to understand the comprehensive nature of Urban Design		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	Introduction to Urban Design Theories Modernist Theories		24
Unit 2	Postmodern and Deconstructivism Theories Sustainable and Ecological Urbanism		24
Unit 3	New Urbanism and Smart Growth Participatory and Collaborative Design Theories Globalization and Urban Networks		24
Unit 4	Social and Cultural Theories Technological and Digital Theories Future Directions in Urban Design Theory and Final Presentations		24
<b>Reference Books:</b>			
<b>Sr. No.</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
1	Urban Theory: A Critical Introduction to Power, Cities and Urbanism in the 21st Century	Allan Harding	Sage Publications
2	Ecological Urbanism	Mohsen Mostafavi and Gareth Doherty	Hardward Graduate School of Design
3	The New Urbanism: Toward an Architecture of Community	Peter Katz	McGraw Hill Education

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-I)

<b>Course Category: SEC</b>		<b>Credits: 02</b>	
<b>Course Code: MUD111</b>		Examination Scheme	
<b>Course Name: Geographic Information System</b>		Mid-Semester Examination-Nil MSE DurationNA <b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 02		
Course Objectives	1. To introduce relevant computer application such as geographical information system and other software systems including 3D computation tools for documentation, mapping, analysis and presentation for urban design tasks, site planning etc, explaining their theoretical base, practiced by hands on training on the studio problem or other assignments. 2. To equip students with GIS software for urban analysis and In Design for reports.		
Course Outcome	The students are equipped with the use of multiple computation techniques, relevant software and application for analysis, conceptualization and communication of urban design schemes.		
Unit	Course Content		Hours
Unit 1	Introduction to geo-referencing and projection Digitization: introducing vector data and creating vector data		12
Unit 2	Building thematic map in GIS: symbology and spatial representation of qualitative and quantitative data using choropleth maps, proportional point symbol, etc. Working with elevation data: dem and tin Attribute data of vector layer: understanding how tabular data are stored and used, using queries to select records of interest, understanding joins and cardinality concepts and summarizing tables to get statistics on groups		24
Unit 3	Data analysis: buffers, overlay, proximity, network analysis non-spatial data – database creation; integration of spatial and non-spatial data; data		14
Unit 4	Create a printable map in GIS: scaling drawings and images; plotting and printing Practical urban design exercises.		14
Reference Books:			
Sr. No.	Title	Author	Publisher
1	Concepts and Techniques of Geographic Information Systems.	Chor Pang Lo, A. K. Y.,	Pearson
2.	Getting to Know ArcGIS Desktop: The Basics of ArcView, Arc Editor, and Arc Info Updated for ArcGIS 9	Tim Ormsby, E. N	California: ESRI Press.

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## **Semester-II**

### **Detail Course Curriculum**

**First Year**  
**Master of Architecture-(Urban Design)**  
**Syllabus**

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-II)

<b>Course Category: PC</b>		<b>Credits: 09</b>	
<b>Course Code: MUD151</b>		Examination Scheme	
<b>Course Name: Urban Design Studio-II</b>		Mid-Semester Examination-Nil	
Teaching Scheme	Studio (Hrs.) 09	MSE Duration NA <b>Continuous Internal Evaluation: 100 Marks</b> End Semester Examination Theory -Nil ESE theory Duration NA <b>End Semester Examination - Oral : 200 Marks</b>	
Course Objectives	1. To identify broad urban design principles, based on any urban issue that the institution might choose to address. 2. To understand an intense process of site mapping, analyzing and identifying patterns in a chosen urban context. 3. To explore and innovate techniques of representation for these complex urban conditions. 4. To equip students to frame urban design programs and projects. 5. To study the complexities of an ‘Indian City/town’ as a composition of actors and networks and employing Urban Design strategies in the process of appropriation of urban dynamics.		
Course Outcome	Students are enabled to conceive urban design projects preferably for live and real urban conditions, thereby understanding client dynamics as well as tangible deliverables.		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	Reading the city as a systemic entity through relevant literature review (specific to the city) and subsequently experiencing the city and its multiple layers of spatial and non spatial nature.		32
Unit 2	Analysis and inter-relationships of various factors of historicity, urban identity, morphology, socio-cultural patterns, ethnicity, urban economics, ecology and environment, mobility and global influences form part of the inquiry.		56
Unit 3	Generating an urban design framework for intervening in the city		28
Unit 4	Demonstration of Urban Design ideas/strategies at various scales to understand its city level implications.		28
<b>Reference Books:</b>			
<b>Sr. No</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
1	The Architecture of the City	Rossi, A.,	London: The MIT Press
2.	A Theory of Good City Form.	Lynch, K.	Cambridge, MA: The MIT Press
3.	A Pattern Language	Alexander, C.	Oxford University Press.
4.	Collage City.	Rowe, C. and Koetter, F.	Cambridge, MA: The MIT Press.
5.	A New Theory of Urban Design.	Alexander, C.	New York: Oxford University Press.
6.	A City is not a Tree	Alexander, C.	Architectural Forum

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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-II)

<b>Course Category: PC</b>		<b>Credits: 02</b>	
<b>Course Code: MUD152</b>		Examination Scheme	
<b>Course Name: Planning Techniques &amp; Procedures II</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration1 Hr	
Teaching Scheme	Lecture (Hrs.) 02	<b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE theory Duration 2 Hrs. End Semester Examination - Oral : Nil	
Course Objectives	1. To understand urban renewal and conservation are critical to the recycling and revival of certain city areas and housing is produced in a variety of ways and reflects ethnic, social and economic groups in settlements. 2. To equip the students to deal with developments in existing cities and develop an understanding of the dynamics of emerging, traditional and development scenarios in India.		
Course Outcome	Students are equipped with necessary information on town planning theories, principles, techniques, and methodologies. They gain a critical overview on planning processes and its impact on the development of an Indian city.		
Unit	Course Content		Hours
Unit 1	Concepts and theories of planning and their applications as Master Plans, Development Plans, Structure Plans etc. Planning terms and their definitions		08
Unit 2	Concepts of Zonal Plans, Area Development Plans, Development Schemes, Urban Renewal, Redevelopment, City Development Plans, Planned Unit Development etc. Concepts of land use, zoning regulations, mixed use development, Special Economic Zones		08
Unit 3	Planning surveys and sampling, evaluation of planning requirements Planning standards and models Overview of Legal and statutory aspects of Planning, Town Planning Acts.		08
Unit 4	Land acquisition Act and process, Land Pooling and other schemes related to green field projects, Transfer of Development Rights Public participation in planning process.		08
Reference Books			
Sr. No.	Title	Author	Publisher
1	New towns: the evolution of planning criteria	Porzecanski, M	Mbridge Uni. Press
2.	Understanding India's New Approach to Spatial Planning and Development: A Salient Shift?	Sanjeev Vidyarthi, Shishir Mathur	Oxford University Press
3.	Planning The 20th Century City	Stephen V Ward	John Wiley And Sons, Inc
4	Urban Regeneration: A Handbook.	Sykes, P. R. & H.,	Sage
5.	Urban Regeneration Management: International Perspectives	John Diamond	London: Routledge.
6.	Humane Approach to Urban Planning	Priya Choudhary	Copal Publishing4

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## Faculty of Science & Technology Syllabus of First Year. M.Arch (Urban Design) (Semester-II)

<b>Course Category: PC</b>		<b>Credits: 02</b>		
<b>Course Code: MUD153</b>		Examination Scheme		
<b>Course Name: Urban Sociology</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration1 Hr <b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE theory Duration 2 Hrs. End Semester Examination - Oral : Nil		
Teaching Scheme	Lecture (Hrs.) 02			
Course Objectives				
1. To create an understanding of the reproduction of contemporary culture in the post-colonial city resulting from interdisciplinary participation drawn from sociology, history, cultural studies, and political analysts.				
Course Outcome		Students are informed of contemporary urban processes and characteristics of urbanism from the post- colonial period to the present-day including theories and discourses across related fields and disciplines.		
<b>Unit</b>		<b>Course Content</b>		<b>Hours</b>
Unit 1		Culture and Society Overview of cross-cultural influences in city development. City as a human network – social structure and urban form. Social access – territoriality, exclusion and inclusion, minority groups and the disadvantaged, children and the geographies of disability. Urban life-style diversity and spaces of consumption. Contemporary culture – the metropolitan experience		12
Unit 2		Post-colonial city Urbanism, colonialism and the world economy. Cities of uneven economic development, nature of structural reform. The politics of globalization and liberalization and their manifestations in the post-colonial city. Memory violence and urban space, case examples of South Asian cities		08
Unit 3		City in transition From the geographies of modernity to post-modernity and beyond, the case example of Los Angels and contemporary development trends across the world.		08
Unit 4		City in transition Discoveries and implications of the post-metropolis, globalization and transnational urbanism. Contemporary trends in the Asian city, conflicts, contestations and hybridization within the multilayered urbanities of Indian cities		12
<b>Reference Books:</b>				
<b>Sr. No.</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>	
1	Social Theory & The Urban Question	Saunders	Routledge Publication	
2.	Globalisation of modern architecture: the impact of politics, economics and social	Adam, Robert	Newcastle Cambridge scholar publishing	
3.	The city and the grassroots: a cross-cultural theory of urban social movements	Castells, M	Edward Arnold	
4.	The Cultures of Cities	Zukin, S.	Cambridge MA: Blackwell.	
5.	Colonial urban development: culture, social power and environment	King, A. D	Routledge	

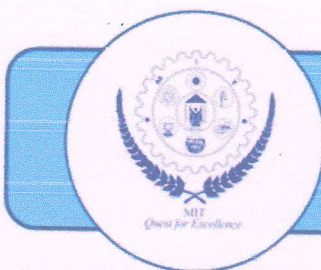
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## Faculty of Science & Technology Syllabus of First Year. M.Arch.(Urban Design)(Semester-II)

<b>Course Category: PE</b>		<b>Credits: 03</b>	
<b>Course Code: MUD156</b>		Examination Scheme	
<b>Course Name: Professional Elective II: Imagining Cities</b>		Mid-Semester Examination-Nil MSE DurationNA	
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Course Objectives	1. To study the elective subject through its theoretical and practical aspects 2. To understand the subject from experts and case studies to read and understand the contemporary issues related to Indian urbanism. 3. To understand the comprehensive nature of Urban Design 4. To initiate critical thinking regarding the subject		
Course Outcome	The students are equipped to read and understand the contemporary issues related to urbanism so to understand the comprehensive nature of Urban Design.		
<b>Unit</b>	<b>Course Content</b>		<b>Hours</b>
Unit 1	Urban Development: World Trends, Challenges and Opportunities.		20
Unit 2	Imagining City: parameters, critiques The factors which effect the image of the city and develop knowledge, understanding, and critical thinking related to Imagining city		22
Unit 3	Livability index: About, Scale, Survey, ranking and overview.		22
Unit 4	Related Case Studies and Research Paper Reviews and Presentations		30
<b>Reference Books:</b>			
<b>Sr. No.</b>	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
1	The Globalization of Urbanism: Urban Dynamics in a Global Context	Roger Keil and David L. Imbroscio	Routledge
2.	Imagining Cities: Scripts, Signs, Memory	Michael Peter Smith	Duke University Press

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<b>Course Category: PE</b>		<b>Credits: 03</b>
<b>Course Code: MUD157</b>		Examination Scheme
<b>Course Name: Professional Elective II: Structure as Expression of Urban Morphology</b>		Mid-Semester Examination-Nil MSE Duration NA
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil
Course Objectives	<ol style="list-style-type: none"> <li>1. To study the elective subject through its theoretical and practical aspects</li> <li>2. To understand the subject from experts and case studies to read and understand the contemporary issues related to Indian urbanism.</li> <li>3. To understand the comprehensive nature of Urban Design</li> <li>4. To initiate critical thinking regarding the subject</li> </ol>	
<b>Unit</b>	<b>Course Content</b>	<b>Hours</b>
Unit 1	Introduction to Urban Morphology The "Urban Form", importance of urban form in connection with the many dimensions – social, economic, and environmental – of our lives in cities.	20
Unit 2	Understanding Urban Morphology through perception, cognition and Spatial aspects of a city structure and gain a sense of growth and continuity-physical and functional without disconnect from the related/complimentary functions/areas.	22
Unit 3	Urban Growth and System of Cities: Urban Sprawl, city management, governance, and finance, urban poverty, cities and economic growth, urban environment, climate change, and disaster management etc Traditional methods for analyzing historical urban growth and advanced methods such as Remote sensing method	22
Unit 4	Related Case Studies and Research Paper Reviews and Presentations	30

### Reference Books:

Sr. No.	Title	Author	Publisher
1	Urban Growth and Planning in the Age of the Megacity	Michael Batty	Routledge
2	Cities and Urban Life	John Macionis and Vincent Parrillo	Pearson
3	The City Assembled	Spiro Kostof	Thames and Hudson
4	The City Shaped	Spiro Kostof	Bullfinch

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<b>Course Category: PE</b>		<b>Credits: 03</b>	
<b>Course Code: MUD158</b>		Examination Scheme	
<b>Course Name: Professional Elective II Art and Science of Conservation</b>		Mid-Semester Examination-Nil MSE DurationNA	
Teaching Scheme	Lecture (Hrs.) 01 Laboratory (Hrs.) 04	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Course Objectives	1. To study the elective subject through its theoretical and practical aspects 2. To understand the subject from experts and case studies to read and understand the contemporary issues related to Indian urbanism. 3. To understand the comprehensive nature of Urban Design 4. To initiate critical thinking regarding the subject and introduction to different theories, philosophies that have significant contribution in the development of conservation practices.		
Unit	Course Content		Hours
Unit 1	Conservation as a concept and its Background History of Conservation Movement. Theory and philosophy of conservation To expose students to the multidisciplinary and interdisciplinary nature of conservation, to ensure students develop skills required to function as responsible professionals.		24
Unit 2	Organizations involved in conservation fields- International, national, regional and local Introduction to various charters- International & National. All Charters from Venice to Mexico		22
Unit 3	Special focus on Indian Context Human rights and values Heritage Legislations- Indian Context.		22
Unit 4	All Charters from Venice to Mexico Contribution of ASI Special focus on Indian Context Contribution of INTACH Human rights and values Concepts of Heritage cell in mainstream local governance		28
Reference Book			
Sr. No.	Ttile	Author	Publisher
1	Heritage Management and Local Governance	R. S. Singh	SAGE Publications
2	Local Governance and Heritage Conservation: Case Studies from India	M. S. Prasad	Cambridge University Press

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<b>Course Category: SEC</b>		<b>Credits: 02</b>	
<b>Course Code: MUD161</b>		Examination Scheme	
<b>Course Name: Urban Ecology</b>		Mid-Semester Examination-Nil	
Teaching Scheme	Lecture (Hrs.) 01	MSE DurationNA	
	Laboratory (Hrs.) 02	<b>Continuous Internal Evaluation: 50 Marks</b> End Semester Examination Theory - Nil ESE theory Duration NA End Semester Examination - Oral : Nil	
Course Objectives	1. To gain knowledge on urban landscape, theories and practices. 2. To understand the relationships between architecture, urban design, landscape design; simultaneously developing a historical perspective on the subject, both internationally and locally. 3. To learn methods to analyse sites in relation to topography, vegetation, biodiversity, etc. and other ecological conditions. 4. To exercise design of the built environment. 5. To implement the methods and respond by framing sensitive design strategies.		
Course Outcome	Students enabled to deal with varying site-based natural and ecological systems with reference to urban design projects and the city at large.		
Unit	Course Content		Hours
Unit 1	Introduction to site planning & Ecology, Site Planning philosophy. Ecological factors in site evaluation		20
Unit 2	Site resource systems, Physiographic, Geology and soils, Hydrology, Micro-climate, Vegetation, Wildlife, terrestrial and aquatic, Cultural resources		16
Unit 3	Urban vegetation, planning & maintenance. Ecological planning processes, theories ,and approaches. Site grading and drainage		16
Unit 4	Sewerage, water supply and Electricity. Surveys and overlays		12
Reference Books:			
Sr. No.	Title	Author	Publisher
1	Visual Analysis of Landscape Development, Harvard press Gary O. Robinette (Ed), Landscape Planning and Energy Conservation	Peter Jacobs and Douglas Way	Van-Nostrand Reinhold
2.	Resilience in Ecology and Urban Design: Linking Theory and Practice for Sustainable Cities.	Pickett.,S.T.A	Springer.
3.	Ecology of Cities and Towns: A Comparative Approach.	Hahs, A.K.	Cambridge University Press.
4.	Design with Nature	Ian Mc Cargh	MIT Press
5.	The Landscape of Man	Geoffrey Jellicoe and Susan Jellicoe	

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<b>Course Category: EECC</b>		<b>Credits: 02</b>
<b>Course Code: MUD166</b>		Examination Scheme
<b>Course Name: Research Methodology</b>		<b>Mid-Semester Examination-25 Marks</b> MSE Duration 1 Hr <b>Continuous Internal Evaluation: 25 Marks</b> <b>End Semester Examination Theory -50 Marks</b> ESE Duration 2 Hrs. End Semester Examination - Oral : Nil
Teaching Scheme	Lecture (Hrs.) 02	
Course Objectives	<ol style="list-style-type: none"> <li>To introduce the rigour of basic research in the critical analysis and interpretation of urban phenomena and data.</li> <li>To guide both studio and theory-based enquiries of students towards structured, systematic, and targeted research yielding qualitative and quantitative outputs.</li> <li>To understand procedures or techniques used to identify, select, and analyze information about a topic.</li> </ol>	
Course Outcome	Students will be familiarized with the basic of research, the research process and explore research work in the field of urban design for their synopsis, thesis report, research paper, book review	
<b>Unit</b>	<b>Course Content</b>	<b>Hours</b>
Unit 1	Introduction of Research and Research methods Research Methodology, types of Research, criteria for good research, scope of the research. Relevance of research in a design discipline, its role in the built environment. Types of research: applied, theoretical, empirical, qualitative, quantitative etc.	08
Unit 2	Action based research in contemporary urban development and design.	04
Unit 3	Definition of Hypothesis & research question. Data collection methods-Identifying the approach for collecting data from both secondary and primary sources. Analytical methods used for urban design. Socio-economic research techniques such as surveys, questionnaires, interviews, group, discussions, participant observation	10
Unit 4	Sampling methods & data representation methods. Introduction to abstract, research paper writing and its technical aspects. Literature review and subsequent evolution of a theoretical framework. Report Writing: Writing and formulating of reports, synopsis, steps in report writing, types of report. Technical aspects related to writing like copywrite, plagiarism, referencing, cross referencing, footnotes etc.	10

### Reference Books

Sr. No.	Title	Author	Publisher
1	Research Methodology	C R Kothari and Gaurav Garg.	New Age International Publishers
2	Inquiry by Design: Environment /Behaviour/Neuroscience in Architecture, Interiors, Landscape, and Planning.	Zeisel, J	W. W. Norton
3	Methodology And Techniques of Social Research	Wilkinson & Bhandarkar.	Himalaya Publishing House
4	Research Methodology	Panneerselvam.	Prentice Hall India Learning Private Limited
5	Quantitative Techniques in Management	N. D. Vohra	

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