

# RAJASTHAN TECHNICAL UNIVERSITY

## TEACHING & EXAMINATION SCHEME

### M. Arch. (Urban Design)

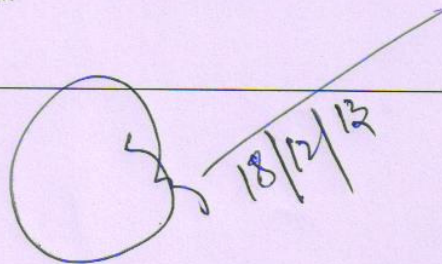
#### SEMESTER – I

Course Code	Course	Credits	Hrs./Week			IA 20%	Exam 80%	Total 100%
			L	T	P			
<b>Theory</b>								
1MUD1	Urban Design Methodology	2	3	-	-	20	80	100
1MUD2	Urban Space in History	2	3	-	-	20	80	100
1MUD3	Settlement Planning, Development control and Urban Design	4	3	1	-	30	120	150
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>-</b>	<b>70</b>	<b>280</b>	<b>350</b>
<b>Sessionals</b>								
			<b>L</b>	<b>T</b>	<b>P</b>	<b>60%</b>	<b>40%</b>	<b>100%</b>
1MUD4	Elective-I (Studio Exercise)	4	-	1	3	120	80	200
1MUD4.1	Area Planning							
1MUD4.2	Computer aided space planning							
1MUD5	Urban Design Studio-I	8	-	-	6	270	180	450
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>1</b>	<b>9</b>	<b>390</b>	<b>260</b>	<b>650</b>
	<b>GRAND TOTAL</b>	<b>20</b>	<b>9</b>	<b>2</b>	<b>9</b>	<b>460</b>	<b>540</b>	<b>1000</b>

#### SEMESTER – II

Course Code	Course	Credits	Hrs./Week			IA 20%	Exam 80%	Total 100%
			L	T	P			
<b>Theory</b>								
2MUD1	Transportation Planning	2	3	-	-	20	80	100
2MUD2	Planning Tools	2	3	-	-	20	80	100
2MUD3	Urbanism in the Context of Culture, Economics, Politics & Governance	4	3	1	-	30	120	150
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>-</b>	<b>70</b>	<b>280</b>	<b>350</b>
<b>Sessionals</b>								
			<b>L</b>	<b>T</b>	<b>P</b>	<b>60%</b>	<b>40%</b>	<b>100%</b>
2MUD4	Elective-II (Studio Exercise)	4	-	1	3	120	80	200
2MUD4.1	Landscape in the context of Urban Design							
2MUD4.2	Urban Design for Housing							
2MUD5	Urban Design Studio-II	8	-	-	6	270	180	450
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>1</b>	<b>9</b>	<b>390</b>	<b>260</b>	<b>650</b>
	<b>GRAND TOTAL</b>	<b>20</b>	<b>9</b>	<b>2</b>	<b>9</b>	<b>460</b>	<b>540</b>	<b>1000</b>

**Note:** Hrs./Week indicates Teaching Units/Week


  
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## TEACHING & EXAMINATION SCHEME M. Arch. (Urban Design)

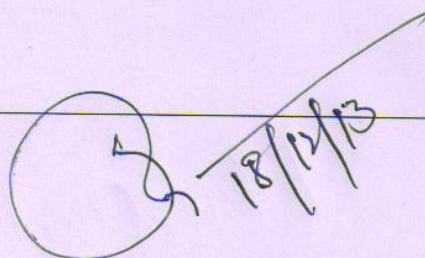
### SEMESTER – III

Course Code	Course	Credits	Hrs./Week			IA 20%	Exam 80%	Total 100%
			L	T	P			
<b>Theory</b>								
3MUD1	Conservation & Renewal	2	3	-	-	20	80	100
3MUD2	Development Sustenance & EIA	2	3	-	-	20	80	100
3MUD3	Elective-III	4	3	1	-	30	120	150
3MUD3.1	Admn. & Legal frame work for Urban Design							
3MUD3.2	Infrastructure for Urban Design							
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>-</b>	<b>70</b>	<b>280</b>	<b>350</b>
<b>Sessionals</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>60%</b>	<b>40%</b>	<b>100%</b>
3MUD4	Understanding Urbanism (Studio Exercise)	4	1	-	3	120	80	200
3MUD5	Urban Design Studio-III	8	-	-	6	270	180	450
	<b>TOTAL</b>	<b>12</b>	<b>1</b>	<b>-</b>	<b>9</b>	<b>390</b>	<b>260</b>	<b>650</b>
	<b>GRAND TOTAL</b>	<b>20</b>	<b>10</b>	<b>1</b>	<b>9</b>	<b>460</b>	<b>540</b>	<b>1000</b>

### SEMESTER-IV

Course Code	Course	Credits	Hrs./Week			IA 20%	Exam 80%	Total 100%
			L	T	P			
<b>Theory</b>								
4MUD1	Project Planning & Urban Design Finance	2	3	-	-	20	80	100
4MUD2	Futuristic Urban Development	2	3	-	-	20	80	100
4MUD3	Elective-IV	4	3	1	-	30	120	150
4MUD3.1	Real estate development							
4MUD3.2	Disaster Risks in Urban Design							
	<b>TOTAL</b>	<b>8</b>	<b>9</b>	<b>1</b>	<b>-</b>	<b>70</b>	<b>280</b>	<b>350</b>
<b>Sessionals</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>60%</b>	<b>40%</b>	<b>100%</b>
4MUD4	Thesis	12	-	-	6	390	260	650
	<b>TOTAL</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>390</b>	<b>260</b>	<b>650</b>
	<b>GRAND TOTAL</b>	<b>20</b>	<b>9</b>	<b>1</b>	<b>6</b>	<b>460</b>	<b>540</b>	<b>1000</b>

**Note:** Hrs./Week indicates Teaching Units/Week


  
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## SYLLABUS (M.ARCH. – URBAN DESIGN) SEMESTER – I

### 1MUD1: URBAN DESIGN METHODOLOGIES

Credits-2 (Assessment: Internal - 20 + External Exam – 80 = Total 100) – Ex. Hr. 3 L-3

#### Objective:

To understand “Design tools” needed to initiate process of designing Urban Environment. A Designer is to look for methodologies to integrate several built form elements in a holistic system that is functional and aesthetically satisfying. This needs a completely different set of tools.

#### Contents:

- Definitions and methodologies for shaping and understanding of Urban Form, References from texts of Spirigen, Kevin Lynch, Alexander, Jacobs, Venturi, Rossi
- Concepts of place and space, Urban design terminologies & definitions  
Methods of Urban design surveys, Documentation and representations  
Cognitive mapping – contemporary and traditional Space Analysis
- Determinants’ of Urban form Components of Urban structure, Concepts of layering  
Shape, size and form of city
- Typological studies and Architectural expression

#### Suggested Readings:

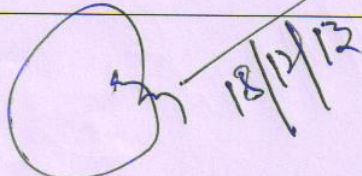
Readings	Author
Urban design handbook, Techniques and working methods	Urban Design associates, USA
Pattern Language	Christopher Alexander
Planning and Urban design Standards	American Planning Association

### 1MUD2: URBAN SPACE IN HISTORY

Credits-2 (Assessment: Internal - 20 + External Exam – 80 = Total 100) – Ex. Hr. 3 L-3

#### Objective:

Urban space is evolutionary in time perspective and is invariably linked to social and economic considerations prevalent at the time. Physical and environmental character and quality of space varied historically. The study helps us to understand changing relationship between urban space and environmental factors that are its determinants.

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## Contents:

- Industrial revolution, its' effect on Urbanism, emergence of Town Planning, zoning and building regulations.
- Transportation, Building of Suburbs, concepts of Garden cities, Influence of development of mercantile towns in INDIA, City beautiful movement: CHICAGO, NEW DELHI, BERLIN
- CIAM and modern movement, BAUHAUS, CORBUSIER's Radiant
- Urban renewal and post war reconstruction, The picturesque city, The role of GEEDIS, MUMFORD and JANE JACOBS,
- Beginning of modern town planning in INDIA Chandigarh, Steel towns, Bhuvaneshwar, Gandhi Nagar
- The city of Automobile Suburbia, New Town Movement and its' influence on post Independence Indian City planning Concepts.
- Role of key architects and Planners and their influence in the production of ideas and the evolution of form of the contemporary city. Planning of Nodes in New Mumbai.

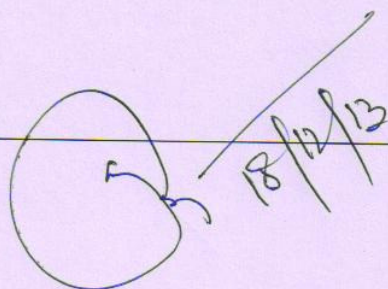
## Suggested Readings:

Readings	Author
City in History	Luis Mumford
Nature of Cities	
History of INDIA Vol. I	Romila Thaper

**1MUD3: SETTLEMENT PLANNING, DEVELOPMENT CONTROL AND URBAN DESIGN**  
**Credit-4 (Assessment: Internal - 30 + Examination - 120 = Total - 150) - Ex. Hr. 3 L-3, T-1**

## Objective:

Principles of Town Planning such as Land use regulations, Development controls, Transportation systems, hierarchy of spaces and amenities, Planning legislation primarily determine the context within which the Urban space has to function. Basic knowledge of Town planning principles and Development Plan Process is essential.

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## Contents:

- Introduction to settlement Planning theories and process in brief
- Development control and its' impact on built form, Adequacy or inadequacy of Planning Dev. Controls to provide desired Urban aesthetics
- Land use planning, development intensity and urban form
- Seminar will discuss issues involved in conventional approach in terms of effectiveness of Urban Design.

## Suggested Readings:

Readings	Author
The Urban Pattern	A. B. Gallion, S. Eisner. (Van Nostrand Reinhold Company)
Text Book of Town Planning	G. K. Bandopadhyaya
Urban and Regional Planning	Peter Hall
Geography of Settlements	F. S. Hudson, Macdonald and Evans Ltd.

### 1MUD4 : ELECTIVE-I (Studio Exercise)

Credits-4 (Assessment: Internal - 120 + External Exam – 80 = Total 200) T-1, P-3

## Objective:

Need to study "Area planning " arises out of the necessity to deal with large scale of the Urban settlements. Land Use, Infrastructure provision , Transportation system linkages have to be arrived at within a Conceptual frame work of ideas. Computer aided space planning facilitates quick development of such concepts and its' evaluation.

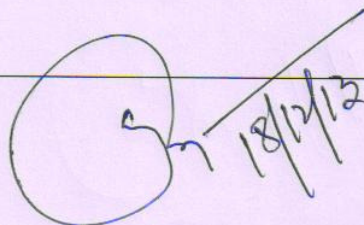
## Contents:

- 1MUD4.1 Area Planning
- 1MUD4.2 Computer aided space planning

### 1MUD2.1: Area Planning:

Development of Skills to familiarize with developing large sites in a comprehensive manner from ecological and service infrastructure as well as Amenities.

Detail studies to include Site planning concepts, Ecology, Site details such as physiographic, geology & soils, Hydrology, micro climate, vegetation, terrestrial and aquatic wild life etc; cultural resources, Urban vegetation –planning & maintenance, Ecological planning process, theories & approaches, Road layout & parking, site grading & drainage, Sewerage, water supply and

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electricity, surveys and overlays, site planning goals and objectives, program development planning Studio exercise in Land development

## Suggested Readings:

Readings	Author
ARANYA Township	Vastushilpa Foundation
Land Use & Infrastructure development norms	
Unified Planning norms	Institute of Town Planners, INDIA
Land sub division network, USAID research	HUDCO

## 1MUD2.2: Computer aided space planning

Introduction to computer software - GIS such as tools for documentations, mapping, analysis and urban design presentation.

## Suggested Readings:

Readings	Author
Interpretation of Aerial Photography	Thomas Eugene Avery: Bungress Pub.Co. Minnesota.
Remote Sensing, Principles and Applications	Floyd Sabins; Freeman and Co, New York.
Principles of Remote Sensing	P. J. Carran : (ELBS)
Remote Sensing and Image Interpretation	Lillesand Thomas M. & Kiefer Ralph W: (John Wiley & Sons Inc. New York)
Geographical Information System	D. Hall & R. Babbage (1989)
Bihar – GIS	Lahiri M. (1993)

## 1MUD5: URBAN DESIGN STUDIO-I

Credit-8

(Assessment: Internal - 270 + Jury - 180 = Total - 450)

P- 6

### Objective:

Integration of theory and planning principles in a studio exercise will lead to positive Project Planning exercise at different scale

### Contents:

Introduction to the realm of Urban Design and it's complexities, Understanding the role of various social, physical, economic and infrastructural components and decision making process, Contribution of related disciplines.

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Familiarization of students with urban design terminologies, methods of survey and site analysis. Design tutorials to assist the students in acquiring the skills of documentation, analysis and presentation of Urban Design projects and typological studies. An interactive Seminar session with invited professionals to demonstrate the Design development process, funding, management, construction and other relevant issues.

## SEMESTER - II

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### 2MUD1: TRANSPORTATION PLANNING

Credit-2 (Assessment: Internal - 20 + Examination – 80 = Total 100) – Ex. Hr. 3 L-3

#### Objective:

Transportation Systems not only integrate different spaces and unify, but are also capable of dividing them. To make urban functions and forms function more efficiently their knowledge is essential

#### Contents:

- Importance and role of transport in Urban Design- accessibility Vs Mobility, Hierarchy of roads and their capacities.
- Transport network and its' components, Transportation Nodes /corridors, Different modes of road transport, mixed traffic and their role in transportation system.
- Traffic surveys – Volumetric, Origin & destination, speed & delay their presentation methodology, traffic zoning
- Parking survey, parking demand estimation, related planning & design standards, Case study of successful parking provision & management.
- Traffic circulation and management principles, pedestrian circulation and its' conflict with vehicular circulation, measures to alleviate,
- Transport infrastructure and design criteria, Road geometry and related planning standards, traffic related urban graphics, Aesthetics and traffic architecture.
- Travel demand assessment and formulation of transport plan and network analysis based on land use, socio-economic growth.
- Special emphasis on transport issues in Indian Cities, Successful examples of planning & infrastructure design from INDIA and Abroad
  - Public transport systems in world, their standards and selection
  - Traffic calming measures, pedestrian priority zones, Cycle networks
  - Transport planning for inclusive cities

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## Suggested Readings:

Readings	Author
Traffic Engineering and Transport Planning	L. R. Kadiyali
Principals of Urban Transport Systems Planning	B. G. Hutchinson
Introduction to Transport Planning	B. J. Bruton
Space Standards for Roads in Urban Areas	IRC 69-1977
Guidelines on Regulations and Control of Mixed Traffic in Urban Areas	IRC 70-1977
Geometric Design Standards for Urban Roads in Plain	IRC 86-1983

## 2MUD2: PLANNING TOOLS

Credit-2 (Assessment: Internal - 20 + Examination - 80= Total - 100) – Ex. Hr. 3 L-3

### Objective:

To expose students to planning principles and evaluations of planning process with reference to local city Development Plan & impact on it. Overview of statistical and survey techniques and planning processes.

### Contents:

- Concepts and theories of planning and their application as Master plan, Development plan, Structure plan
- Planning terms and their definitions
- Concepts of Zonal Plan, Area Development Plan, Development schemes, Urban renewal, redevelopment, City development plan, Planned unit development
- Concepts of land use, zoning regulations, mixed use development, special economic zone.
- Planning surveys and sampling, evaluation of planning requirements
- Planning standards and models
- Overview of legal and statutory aspects of planning, Town planning Acts
- Land acquisition act and processes, Land pooling and other schemes related to Green Field projects, Transfer of development rights
- Public participation in planning processes



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## Suggested Readings:

Readings	Author
Urban Planning methods: research and Policy analysis	Ian Bracken, Methuen and Co.Ltd. London
Urban Land Use Planning	F. Stuart Chapin Jr., Harper 7 Brothers, Publishers, New York, USA
Development Control Rules. City Development Plan	

## 2MUD3: URBANISM IN THE CONTEXT OF CULTURE, ECONOMICS, POLITICS & GOVERNANCE

Credit- 4 (Assessment: Internal - 30 + Examination - 120 = Total 150) – Ex. Hr. 3 L-3, T-1

### Objective:

To understand the urban morphology based on disciplines of Urbanism. Geography, planning and legislative mechanism. Investigation in theories of place making as well as the contribution of technology and economy to understand "Urban "

### Contents:

- CITY SPACE
- Urban, Urbanization & Urbanism
- Notion of City, Urban Society and culture
- Participatory and advocacy planning, suburban dev.
- Concepts of place and space-social construction of space, an overview. Space as contested domain-public private, concept and production of every day space
- Spaces of modernity Vs spaces of social justice, post modernity and the city
- Notions of space and place with reference to indigenous cities of S.E. Asia with special reference to Indian sub continent.
- ECONOMICS, POLITICS & GOVERNANCE
- Theories of development, debate on Development Vs. Growth
- History of economic thought and its' spatial dimension
- Overview of social and economic change in INDIA
- Structure of city governance in INDIA
- Town planning acts and regulations

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## Suggested Readings:

Readings	Author
Financing Urban Development in India	K.S.R.N. Sarma
Development Planning and Policy making	P.N. Chopra
Government and Politics of India, New Delhi	P. Sharan
Empowering panchayats : handbook for master trainers (using participatory approach), New Delhi, Concept, 2003	Bandopadhyay, D; Mukherjee, Amitava; Gavai, Miatali Sen
Participatory development: the story of the orange pilot project-research and training institute and the urban resource centre, Oxford University Press	Hasan, Arif
Land and People of Indian States and Union Territories, Delhi, Kalpaz, 2005	Bhatt, S.C.; Bhargava, Gopal. K. ed
Municipal finance in India: role of twelfth finance commission, Ahmedabad, Balgovind Prakashan, 1969	P.S.N Rao; Srivastava, G.C.
Local governance in India : decentralization and beyond, New Delhi, Oxford University Press, 2006	Jayal, Niraja Gopal; Amit Prahash; Sharma, Pradeep K. eds
The Development Reader, London, Routledge, 2008	Sharad Chari, Stuart Corbridge
"Role of NGO's in the shelter process of low income people with special emphasis on housing finance : The case of Delhi Catholie architecture	Sivashanmugham; Ahmed Istiyak
"New Delhi, Indian Human Settlements Programme, 1988	
Participation of sustainable development: Theory and practice in government and NGO's. , New Delhi, Vetri Publishers, 1993	Vettivel, Surendra K

### 2MUD4: ELECTIVE-II (STUDIO EXERCISE)

**Credit-4**

**(Assessment: Internal - 120 + Exam - 80 = Total 200)**

**T-1, P-3**

- 2MUD4.1 LANDSCAPE IN THE CONTEXT OF URBAN DESIGN  
 2MUD4.2 URBAN DESIGN FOR HOUSING

#### 2MUD4.1: LANDSCAPE IN THE CONTEXT OF URBAN DESIGN

#### Objective:

Landscape is an element of Design that unifies the diverse characteristics of spaces and functions aesthetically.

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## Contents:

Landscape is visualized as an important element in Urban Design. It is one element that is extensively used to unite disparate built form requirements. Exercise in studio will explore this aspect, while minimum theoretical base in terms of, land configuration, trees /vegetation, landscape furniture etc; will be addressed in weekly lecture session. (Evaluation through internal assessment-50 marks for Theory exam and 50 for studio exercise)

## Suggested Readings:

Readings	Author
Urban Design--Street and Square, Third Edition. Architectural Press, Oxford 2003	Cliff Moughtin
Sustainable Urbanism: Urban Design with Nature	Douglas Farr, John Wiley & Sons
The Urban Design Reader	Michael Larice, Elizabeth Macdonald, Routledge

## 2MUD4.2: URBAN DESIGN FOR HOUSING

### Objective:

Application of Urban design principles is very essential in the context of emerging trends of Group Housing. Hitherto it was not considered as an important constituent of Urban development.

### Contents:

Application of urban design development guide lines to Housing through a neighborhood level studio study/seminar. Case study of projects like Andrews Ganj / HUDCO housing at New Delhi.

**Suggested Readings:** Live case studies and documentation

## 2MUD5: URBAN DESIGN STUDIO-II

Credit-8

(Assessment: Internal - 270 + Jury – 180 = Total - 450)

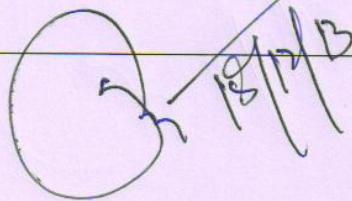
P-6

### Objective:

To develop Project Planning understanding and Practice

### Contents:

Introduction to Urban Design study with reference to a real city development project identifying the factors that determine morphology. Study will be on city level. Typological studies and designs will be explored in addition to survey, analytical techniques as well as presentation methods, studied in first semester.

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## SEMESTER – III

### 3MUD1: CONSERVATION & RENEWAL

Credit – 2 (Assessment: Internal - 20 + Exam – 80 = Total - 100) – Ex. Hr. 3

L – 3

#### Objective:

Urban renewal and conservation are critical to the revival and recycling of inner city areas.

#### Contents:

- Historic overview of Urban renewal
- Development strategies for regeneration of inner city areas
- Case studies of Urban renewal, adaptive reuse
- Infrastructure up gradation, economic regeneration, financing and management of Urban schemes
- Introduction to conservation, heritage, concepts of historic zone & world heritage sites
- Principles of conservation and successful practices in INDIA & Abroad
- Importance of charters, Archaeological acts, Conservation Acts and legislation
- Concepts and approaches to urban conservation in INDIA, U K and Europe
- Heritage, tourism and conservation
- Institutional framework for urban conservation and renewal strategies (India)

#### Suggested Readings:

Readings	Author
Guidelines for Conservation	Bernald Fieldon
Planning For Conservation	Roger Kaine
Conservation Planning	Alan Dobby
Urban Landscape	Conzen
Reports On Fort Area In Mumbai	Booklet of HUDA
Compendium in town renewal and urban planning	Gehl, J. Gemzoe, L. 1996
Urban regeneration in Europe	
Designing High-Density Cities	Edward Ng, Earthscan
Jawaharlal Nehru Urban Renewal Mission, Govt. Of India	

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## 3MUD2: DEVELOPMENT SUSTENANCE & E I A

Credit – 2 (Assessment: Internal - 20 + Exam – 80 = Total - 100) – Ex. Hr. 3 L-3

### Objective:

E Concern for the protection of natural environment and the techniques for sustainable development as applied to Urban design, planning and Architecture. Create awareness of legislative mechanisms for Environmental Protection, Environmental Assessment techniques and procedures.

### Contents:

- Strategies and concepts of sustainable development or resource conservation. Definitions of environmental planning terms, Environmental planning techniques such as analysis for carrying capacity, ecological foot prints and land suitability, vulnerability assessment and microzonation, pollution modeling, eco city development.
- Case studies for applications to of concepts to various scales- regional, settlement and buildings (Emphasis on Urban Eco Systems green buildings, pollution control, energy use, Water harvesting, waste treatment, solid waste management.
- Statutory Acts, regulations and notifications (Coastal zone regulations, pollution control act ) - Definition of Environmental Impact assessment, methods of E I A, procedures, formats, important clearances and legal frame work.
- Case studies of EIA  
Climate change and City form, international agreements/Agendas/protocols

### Suggested Readings:

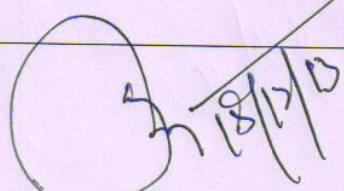
Readings	Author
The Ecology of Place: Planning for Environment, Economy, and Community	Beatley, Timothy and Kristy Manning. 1997
Sustainable Cities in developing Countries	Cedric Pugh. 2000
Regenerative design for Sustainable Development	John Tillman Lyle. 1994
City-Region 2020	Joe Ravetz. 2000

## 3MUD3: ELECTIVE-III

Credit – 4 (Assessment: Internal - 30 + Exam – 120 = Total - 150) – Ex. Hr. 3 L-3, T-1

### Objective:

Objective of study of these two electives is to make Project Implementation realistic through safeguarding of individual and community interests. Study of Infrastructure, services and amenities is aimed at facilitating comforts and conveniences at an affordable cost.

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## Contents:

- 3MUD3.1 ADMN. & LEGAL FRAME WORK FOR URBAN DESIGN  
3MUD3.2 INFRASTRUCTURE FOR URBAN DESIGN

### 3MUD3.1: ADMN. & LEGAL FRAMEWORK FOR URBAN DESIGN

- Statutory powers and responsibilities of Central Govt. with respect to urban development and role of implementing agencies
- Powers of State Govts, Union territories & their legal structure.
- Town Planning acts in India and their implementation provision
- Statutory powers of Local authorities and local bodies
- Local self Govt /local bodies and planning administration

### Suggested Readings:

Readings	Author
Planning Legislation and Professional Practice	Institute of Town Planners, India, New Delhi
Reading Material on Project Formulation & Appraisal	Dr. A. N. Sachithanandan, Institute of Town Planners, India, New Delhi.
The Economics of Development & Planning	M. L. Jhingan

### 3MUD3.2: INFRASTRUCTURE FOR URBAN DESIGN

Objective of this exercise will be to identify the infrastructure needs for Urban Design. This includes signage systems, service infrastructure Idea is to explore the integration of infrastructure elements in an integrated Urban Design network.

Readings	Author
Development policy and planning: An introduction to models and techniques	Chowdhury, Anis; Kirkpatrick, Colin
policy and planning : A third world perspective, England	Ghosh, Pradip K. Ed.
Dynamics of formulating policy in government of India machinery for policy development., Delhi	IshwarDayal; Mathur, Kuldeep; Datta, Abhijit; Banerjee, Utpal K.
'One Common Future' Report of World Commission on Environment & Development	
UNPP, Yearly Report on Cities	

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## 3MUD4: UNDERSTANDING URBANISM (STUDIO EXERCISE)

Credit – 4

(Assessment: Internal - 120 + Exam – 80 = Total - 200)

L-1, P-3

### Objective:

Study of Urbanism to understand the environment and its context in prevalent social and economic constraints that constitutes urban society.

### Contents:

- Culture & society;
- Overview of cross-cultural influences on city development
- City as a human network, Social structure & Urban form
- Social access-territoriality, exclusion and inclusion, minority groups and disadvantaged, children and the geographies of disability
- Urban life style diversity and spaces of consumption  
Contemporary culture- the metropolitan experience
- Post colonial city
- Urbanism, colonialism and the world economy
- Cities of uneven economic development, nature of structural reform
- Politics of globalization and liberalization with their manifestations in the post colonial city
- Memory violence and urban space, case studies of south Asian cities
- CITY IN TRANSITION
- Discoveries and implication of the post Metropolis, globalization and transitional urbanism
- Contemporary trends in the Asian city, conflicts, contestations and hybridization within the multi layered urbanities of Indian cities
- Seminar to focus on understanding the process of layering.

### Suggested Readings:

Readings	Author
Death & life of Great American cities	Jane Jacobs
A New Urbanism	Peter Katz & Vincent Scully
Naked City: Death & life of Urban Spaces	
Codifying new Urbanism	Planners Advisory Services, USA

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## 3MUD5: URBAN DESIGN STUDIO-III

Credit-8

(Assessment: Internal - 270 + Jury – 180 = Total - 450)

P - 6

### Objective:

to study a vitally important core structure of Urban settlements that exists historically but bears maximum brunt of Urban growth through modernization. Regeneration is an important aspect.

### Contents:

Focus on inner city regeneration, Urban conservation, economic and environmental considerations, social and political forces and infrastructure development. Involvement of user groups and decision making agencies. Focus on establishing the frame work for their Thesis in terms of choice of subject, relevant literature survey and case studies

## SEMESTER - IV

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### 4MUD1: PROJECT PLANNING & URBAN DESIGN FINANCE

Credit – 2

(Assessment: Internal - 20 + Exam – 80 = Total - 100) – Ex. Hr. 3

L-3

### Objective:

With the introduction of large urban design and development projects in India, particularly under public-private partnerships, the importance of project planning its role in management and execution has become critical to its success. The objective of the studio is to educate the students of the various methodologies, policies and financial frameworks.

### Contents:

- Introduction to project planning, theories, concepts and management.
- Project formulation, definition
- Norms, standards, aspects and methods of project appraisal
- Concepts of Project management, systems, frameworks and techniques
- Implementation strategies, scheduling, activities, progress reviews, corrective actions etc
- Economic and financial feasibility concepts and methods
- Project funding, economic feasibility and methods of recovery
- Mandatory legal and environmental approvals
- Special projects such as Special economic zones, export processing zones, townships
- Overview of the various methodologies of planning



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## Suggested Readings:

Readings	Author
Project Planning and Management : an Integrated approach; Pergamon Press, NY 1980	Goodman, Louis T.; Love; Ralph N
Basic Project Planning; Uppal Publishing, New Delhi 1981	Klein Hartmut
Project planning and appraisal in planned economy the Indian context; New Delhi, Uppal Publishing, 1981	Jain D. K.
Project appraisal and planning for developing countries; London, Heinemann Educational Books 1974	Little, I.M.D.; Mirrlees, J.A.
Project planning formulation and Evaluation : A manual	Mathew, T.K.
Project planning, financing, implementation and evaluation	Srivastava, U.K.
Analysis of project finance in developing countries; London	Harvey, Charles
Aspects of evaluation and project appraisal	Puttaswamiah, K.
Project evaluation and development	Rougvie, Alexander
UN Industrial Development Organisation; Guidelines for project evaluation	
Project management techniques; New York, Petrocelli Books 1985	Awani, Alfred O
Project management; New Delhi, Tata McGraw-Hill 1988	Choudhury, S
Advanced project management; England, Gower Publishing, 1985	Harrison, F.L.

## 4MUD2: FUTURISTIC URBAN DEVELOPMENT

Credit – 2 (Assessment: Internal – 20 + Exam – 80 = Total - 100) – Ex. Hr. 3 L-3

### Objective:

To examine contemporary concerns and emerging theories in the construct of the city, recent urban initiatives, sustainable development, smart growth, ecosystem approach urban regeneration

### Contents:

The course will critically review philosophies and projections made in contemporary literature, film, through urban design, architecture and planning projects and the views of social and political scientists, economists for the future of urbanism and city dynamics.

The seminar will focus on critical analysis of contemporary and projected urban initiatives with an emphasis on India and Asian cities, studied through case studies.

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## 4MUD3: ELECTIVE-IV

Credit – 4 (Assessment: Internal - 30 + Exam - 120 = Total - 150) – Ex. Hr. 3 L-3, T-1

### Objective:

To understand Market forces that shape the need of urban development and conservation through Real Estate Development Process that determines the realistic demand nature and success of the Project. Disaster Risks greatly affect Market Forces as well as safety of the people, and hence its understanding is unavoidable.

4MUD3.1 REAL ESTATE DEVELOPMENT  
4MUD3.2 DISASTER RISKS IN U D

### 4MUD3.1 REAL ESTATE DEVELOPMENT

#### Objective:

This course is designed to give the students a detailed appreciation of the dynamics of typical real estate development process in India and the contemporary issues involved.

#### Contents:

- Introduction
- Definition of real estate – physical, financial and social perspectives Comparison of real estate to other investment avenues Real, local, national and global factors affecting real estate
- History of development of real estate in Indian metros
- The 90's boom and what followed
- Key drivers of the metropolitan real estate market
- Concepts of real estate analysis
- Mapping supply to understand markets
- Property grading, factors affecting grading and the relevance of such grading, relevance of design in grading
- Demand factors affecting real estate development
- Real estate development and planning
- Planning process abroad and in India
- Issues of Public Realm
- Overview of laws and regulations affecting real estate
- Urban Land Ceiling, Rent Acts, DCR's
- FDI policy in Townships and SEZ's
- Short review of office markets in the State
- Short review of retail developments in the State
- Real estate consulting services and their relevance

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## Suggested Readings:

Readings	Author
Principles & Practice of Valuation	Roshan Namavati
Economic Development, Cities and Planning	M. Harris: Oxford University Press, Mumbai 1978
Local Economic Development: Analysis And Practice	John P. Blair, Sage Publications (ca)
Urban Economic Development in India	V.V. Subrahmanyam and R.L. Bawa, Vedam Books Pvt. Ltd, New Delhi
Indian Economy	S. K. Misra & V. K. Puri, Himalaya Publishing House, Delhi
The Economics of Development & Planning	M. L. Jhingan
Economics of Cities	Jean-Marie Huriot & Jacques-Francois Thisses

## 4MUD3.2 Disaster risks in Urban Design:

### Contents:

Focus will be on urban design and structural Stability. Concepts like Microzonation, Safety zones for building Structural collapses, Form and structural stability etc,

### Suggested Readings:

Readings	Author
Risk assessment and risk management	R.E.Hester
Disaster management and sustainable development, Pentagon Press, 2009	Anand, Rajesh; Jana, N.C.; Sudhir Singh
Building Material and Technology Promotion Council, Report of the expert group on natural disaster prevention, preparedness and mitigation having bearing on housing and related infrastructure,  Part 3 : Guidelines for improving Hazard resistant construction of buildings and landuse zoning, New Delhi, BMTPC, 1998	
Disaster management : A disaster managers handbook, Manila, ADB, 1991	Carter, W. Nick
India 2020, chaman offset printer 1998	A.P.J Abdul Kalam

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## 4MUD4: THESIS

Credit – 12

(Assessment: Exam - 390 + Jury – 260 = Total - 650)

P-6

### Objective:

Thesis by Design or Research is culmination and integration of the knowledge gained by an individual and helps assessing the understanding of the Program

### Contents:

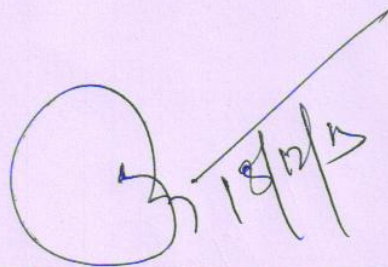
#### THESIS BY DESIGN

The culmination of student work, the design thesis is an independent design on a topic defined by the student, leading to the development of a clear design proposal to be supervised by a faculty team and evaluated by an external jury.

The tutorial will assist the students to strengthen the theoretical base of the thesis and analyze relevant successful design demonstrations through case studies.

#### OR THESIS BY RESEARCH

The thesis by research is an independent research on a topic defined by a student, to be completed in the form of a comprehensive report under the supervision of an advisor and evaluated by an external jury. The tutorial will assist the student in research methodologies, conducting of surveys, identifying case studies

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