

**School of Planning & Architecture, New Delhi
(Deemed to be a University)**

MASTERS' DEGREE COURSE IN ARCHITECTURE
URBAN DESIGN

CURRICULUM – 2007

Department of Urban Design

School of Planning & Architecture, New Delhi
Department of Urban Design
Revised Scheme of Examination & Syllabus 2007

Semester – 1

Courses	Course No.	Subject	Hours per week					Assessment			
			Lecture	Seminar	Tutorial	Studio	R&D	Internal	Exam.	Jury	Total
Core/Theory Courses	UDC-01	History of Urban Space	2	1				150			150
	UDC-02	Design Studio - I			4	8		350		200	550
	UDC-03	Urban Design Methodologies	2					50	50		100
	UDC-04	Site Planning	1			2		50	50		100
Specializations/ Electives	UDE-01	Computer Aided Urban Design OR	2					100			100
	UDE--02	Course from other Departments									
Total	25hr/wk		7	1	4	10	3				1000

Semester - 2

Courses	Course No.	Subject	Hours per week					Assessment			
			Lecture	Seminar	Tutorial	Studio	R&D	Internal	Exam	Jury	Total
Core/Theory Courses	UDC-05	Reading the City - I	2	1				150			150
	UDC-06	Design Studio - II			4	8		350		200	550
	UDC-07	Planning Tools for Urban Design	2					50	50		100
	UDC-08	Transport Planning for Urban Design	2					50	50		100
Specializations/ Electives	UDE-03	Administrative & Legal framework for Urban Design OR	2					100			100
	UDE--04	Course from other Departments									
Total	25hr/wk		8	1	4	8	4				1000

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Semester – 3

Courses	Course No.	Subject	Hours per week					Assessment			
			Lecture	Seminar	Tutorial	Studio	R&D	Internal	Exam	Jury	Total
Core/Theory Courses	UDC-09	Reading the City – II	2	1				150			150
	UDC-10	Design Studio - III			4	8		350		200	550
	UDC-11	Techniques of Sustainable Development & EIA	2					50	50		100
	UDC-12	Urban Renewal & Conservation	2					50	50		100
Specializations/ Electives	UDE-05	Real Estate Development OR	2					100			100
	UDE--06	Course from other Departments									
Total	25hr/wk		8	1	4	8	4				1000

Semester -4

Courses	Course No.	Subject	Hours per week					Assessment			
			Lecture	Seminar	Tutorial	Studio	R&D	Internal	Exam	Jury	Total
Core/Theory Courses	UDC-13	City Futures	1	2				150			150
	UDC-14	Design Thesis OR									
	UDC-15	Research Thesis			4	8		400		250	650
	UDC-16	Project Planning & Finance for Urban Design	2					50	50		100
Specializations/ Electives	UDE-07	Housing OR	2					100			100
	UDE--08	Course from other Departments									
Total	25hr/wk		5	2	4	8	6				1000

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Semester 1

UDC – 01 HISTORY OF URBAN SPACE

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	1	-	-	150	-	-	150

The objective of the course is to provide a morphological overview of the general processes of modernization from Post-Industrial Revolution; tracing the transformations beginning with the concepts of the Garden City and City Beautiful movements the rise of the City of Machines of the 19th century concluding with rise of Modernist urbanism and its influence on Colonial and Post-colonial Indian cities.

- The Industrial revolution, its effect on European urbanism, emergence of town planning, zoning and building regulations
- Transportation, the building of suburbia, concepts of Garden Cities or cities in the garden, in Europe and America, influence on the development of mercantile Colonial Towns in India
- City beautiful movement – Chicago, New Delhi, Canberra, Berlin (Albert Speer) *etc.*
- ~~Industrial colonization and the introduction of Colonial Institutions in urban India~~
- CIAM and the Modern Movement, Bauhaus, Corbusier’s Radiant City *etc.*
- Urban renewal and post-war reconstruction, the picturesque city. The role of Geddes, Mumford and Jane Jacobs. Beginning of modern town planning in India
- City of the Automobile, ~~American~~ the suburbia, New Town Movement and its influence on post-independent 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

The seminar will study a variety of public spaces of Delhi, both historical and contemporary critically analyzing the origins and influences and success or failures of the designs.

~~There will be an~~ Internal assessment for the theoretical component of the course will contain 50 marks, the Seminar has 100 marks

UDC – 02 DESIGN STUDIO & WORKSHOP

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
-	-	4	8	350	-	200	550

The studio is the introduction of the student to the realm of urban design the objective is to expose them to the complexities of the design process. 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. The studio will also familiarize the student with urban design terminologies, methods of surveys and site analysis.

The design tutorial will assist the students in acquiring skills of documentation, analysis and presentation of *human networks* urban design projects and typological studies.

Design Workshop – an interactive seminar session with invited professionals who will demonstrate the design development process of projects, their funding, management, construction and any other relevant issues pertaining to design and development.

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UDC – 03 URBAN DESIGN METHODOLOGIES

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	100

The course provides explanations of Urban Design terminologies, definitions and methodologies for shaping and understanding of urban form; derived from both theory and empirical evidence. Drawing references from text such as those of Spirigen, Lynch, Alexander, Jacobs, Venturi, Rossi, etc.

- Concepts of place and space
- Urban design terminologies and definitions
- Methods of urban design surveys, documentation and representation
- Cognitive mapping – contemporary and traditional
- Space analysis
- Determinants of urban form
- Components of urban structure
- Concepts of layering
- Size, shape and form of cities
- Typological studies
- Architectural expression

UDC – 04 SITE PLANNING

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
1	-	-	2	50	50	-	100

To develop skills that enables an urban designer to deal with large sites in a comprehensive manner from ecological considerations to the design of services and related infrastructure.

- Introduction to site planning & Ecology, Site Planning philosophy
- Ecological factors in site evaluation
- Site resource systems
 - Physiography
 - Geomorphology **Geology and soils**
 - Hydrology
 - Micro-climate
 - Vegetation
 - Wild life, **terrestrial and aquatic**
- Cultural resources
- Urban vegetation, planning & maintenance
- Ecological planning processes, theories and approaches
- Road layout and parking
- Site grading and drainage
- Sewerage, water supply and electricity
- Surveys and overlays
- Site planning goals and objectives, programme development

The studio will choose a suitable site in Delhi where the students will individually map, evaluate and analyze the site from the knowledge imparted in the theory classes.

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UDE – 01 COMPUTER AIDED URBAN DESIGN or UDE – 02 COURSE FROM OTHER DEPARTMENT.

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	100	-	-	100

Introduction to computer software, such as Geographical Information Systems and other software systems as tools for documentation, mapping, analysis and presentation for urban design, site planning schemes; explaining their theoretical base, practiced by on hands-on training on the studio problem or other assignments.

Semester - 2

UDC – 05 READING THE CITY – I

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	1	-	-	150	-	-	150

The aim of the course is 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. The course also seeks to investigate into theories of place making and the contribution of technology and economy leading to an understanding of what is "urban" today.

The course is structured around two modules:

i) City space

- The idea of urban, urbanization and urbanism
- Notions of a city, urban society and culture through selected writings
- Participatory and advocacy planning, suburban development.
- Concepts of place and space – social construction of space, an overview
- Space as contested domain – public private, concept and production of everyday 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

ii) Economics, Politics and Governance

- Theories of development, debates on development vs growth
- History of economic thought and spatial dimensions of economic thought
- Overview of social and economic change in India
- Structure of city governance in India
- Town Planning Acts and regulations

There will be an internal assessment of the theoretical classes of 50 marks. The Seminar will enquire into the range of tools that contribute to urban morphology, planning regulations, sprawl, zoning, informal settlements etc. will be of 100 marks

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UDC – 06 DESIGN STUDIO - II

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
-	-	4	8	350	-	200	550

This studio would hone the theoretical knowledge of the student from the first semester in resolving a design problem on a Green Field site preferably outside Delhi. The first part of the studio will be an introduction to urban design city study, analyzing the various factors that determine the morphology of the city and the referencing of selected sites to the study. As far as practicable the project should be a live problem carried out with the active participation of the client.

The studio tutorial will assist the students in the methodology of conducting an urban design city study, techniques of surveys, analysis of information and presentation. Typological studies and designs.

UDC – 07 PLANNING TOOLS FOR URBAN DESIGN

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	100

The aim of the course is to expose the student to the principles of planning and critically evaluate different planning processes prevalent in India and abroad. A critical overview of the Delhi Master Plan is to be used as a case example to understand planning processes and its impact on the production of the City.

An overview of statistical and survey techniques used to in the preparation of a planning and urban design programmes explaining the basic definitions and informing the student of the various methods, techniques and processes of planning, focusing on the latest methods of assessing and gathering information.

- Concepts and theories of planning and their applications as Master Plans, Development Plans, Structure Plans etc.
- Planning terms and their definitions
- 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
- 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 process, Land Pooling and other schemes related to green field projects, Transfer of Development Rights
- Public participation in planning process

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UDC – 08 TRANSPORT PLANNING FOR URBAN DESIGN

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	100

The objective of the course is to familiarize the students with the movement structure of a city and the planning concepts, standards, methods, procedures and management systems for transportation.

- Importance and role of transport in urban design
- Accessibility vs. mobility – the transport planning dilemma for urban designers
- Concept of hierarchy of roads in urban area and their capacities
- Introduction to transport network and components, transportation nodes / corridors. Different modes of road transport, mixed traffic and their role in transportation system
- Traffic surveys i.e. traffic volume survey, origin-destination survey, speed and delay survey etc. their methodology and presentation, concept of traffic zoning.
- Parking survey, parking demand estimation and related planning and design standards, successful cases of parking infrastructure development and management.
- Traffic circulation and management principles
- Pedestrian circulation and vehicle pedestrian conflicts, measures to alleviate the same
- Transport infrastructure and design criteria, road geometry and related planning standards, traffic related urban graphics, urban aesthetics and traffic architecture
- Travel demand assessment and formulation of transport plan on the basis of land use, socio-economic growth etc. and network analysis.
- Special emphasis on transport issues in Indian cities, successful cases of appropriate transport planning and infrastructure design from India and other countries.
 - Public transport systems in the World, their standards and system selection.
 - Traffic calming measures in residential areas and pedestrian priority zones, planning standards for cycle networks
 - Transport planning for inclusive cities – issues of equity, livelihood, safety etc

The internal assessment should preferably be related to the design studio surveys or on-site information for which can be conducted during the site surveys for the design studio.

**UDE – 03 ADMINISTRATIVE AND LEGAL FRAMEWORK FOR URBAN DESIGN OR
 UDE – 04 COURSE FROM OTHER DEPARTMENT.**

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	100	-	-	100

Urban design and planning have to operate within a legal and administrative framework, the objective of this course is to inform the student of these mechanisms which exist within the structure of the Central and State Governments, the Municipal Corporations, Development Authorities and Notified Authorities.

- Statutory powers and responsibilities of the Central Government with respect to Urban Development and the role of implementing agencies
- Powers of the State Governments and Union Territories, decision making bodies and their legal structure
- Town Planning Acts in India and their implementation strategies
- Statutory powers of the Local Bodies and Local Authorities

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- Critical appraisal of the 73rd and 74th Constitutional amendments, their effect on urban governance and local bodies
- Planning regulations and building by-laws
- Appraisal of legislation for Public-Private partnership in Urban Development and Infrastructure projects

Semester – 3

UDC – 09 READING THE CITY – II

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	1	-	-	150	-	-	150

The objective of the course is 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.

The course is structured around three modules:

i) 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

ii) 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

iii) City in transition

From the geographies of modernity to post-modernity and beyond, the case example of Los Angeles and contemporary development trends across the world

- 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

The Seminar, through case studies will seek to establish an understanding of the process of layering – to read the current city backwards!

There will be an internal assessment for the theoretical component of the course containing 50 marks, the Seminar has 100 marks

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UDC – 10 DESIGN STUDIO - III

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
-	-	4	8	350	-	200	550

The studio exercise will focus on inner city regeneration in Delhi examining issues related to critical programme development, urban conservation, economic and environmental considerations, and infrastructure development, social and political forces.

The involvement of user groups and decision making agencies as a part of the project formulation and appraisal should be encouraged. Brown field sites may also be chosen for the exercise.

The design tutorial will focus on establishing the framework for their Thesis, guiding the students in the choice of a subject, relevant literature survey and case studies.

UDC – 11 TECHNIQUES OF SUSTAINABLE DEVELOPMENT & ENVIRONMENTAL IMPACT ASSESSMENT

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	100

Concern for the protection of the natural environment and the techniques for sustainable development applied to urban design, planning and architecture is of critical importance today and indispensable in the future, the aim of the course is to inform the student of the latest theories and techniques available as tools for design and development,. Create awareness of the legislative mechanisms for environmental protection and Environmental Impact Assessment (EIA) methods and procedures.

- ~~Overview of International and National policies and Programmes—Stockholm Conference, Bunntdland Commission, Earth Summit, Agenda 21, Habitat I & II etc. and emerging issues~~
- Strategies and concepts of sustainable development for resource conservation as relevant to settlement planning & design
- Definitions of environmental planning terms
- Environmental Planning techniques – analysis of carrying capacity, ecological footprint and land suitability, vulnerability assessment and microzonation, pollution modeling, eco city development etc.
- Case studies of application of concepts at various scales – regional, settlement and buildings (emphasis on urban eco systems green buildings, pollution control, energy use, water harvesting, waste treatment, solid waste management etc.)
- Statutory Acts, regulations and Notifications (costal zone regulations, pollution control Act etc.)
- Definition of Environmental Impact assessment, methods of EIA, procedures – formats, important clearances, ~~time-frame~~, legal framework of EIA
- Case studies of EIA as relevant to urban design projects
- ***Climate change and city form. International agreements agendas and protocols.***

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UDC – 12 URBAN RENEWAL AND CONSERVATION

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	100

Urban renewal and conservation are critical to the recycling and revival of inner city areas, the objective of the course is to equip the students to deal with developments in existing cities.

- Historic overview of urban renewal
- Development strategies for regeneration of inner city areas, recycling, renewal, etc.
- Case studies of urban renewal. adaptive reuse and Brown Field projects in India and abroad
- Infrastructure up gradation, economic regeneration , financing and management of urban renewal schemes
- Introduction to conservation, heritage, concepts of historic zones and world heritage sites
- Principles of conservation and successful practices in conservation in India and abroad
- Importance of Charters, Archaeological Acts, Conservation Acts and Legislation
- Concepts and approaches to urban conservation in India, UK and Europe
- Heritage tourism and conservation
- Institutional framework for urban conservation *and renewal strategies* in India

UDE – 05 REAL ESTATE DEVELOPMENT OR UDE – 06 COURSE FROM OTHER DEPARTMENT

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	100	-	-	100

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.

- 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 etc.
 - FDI policy in Townships and SEZ's
- Short review of office markets in Delhi and NCR
- Short review of retail developments in Delhi and NCR
- Real estate consulting services and their relevance

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Semester - 4

UDC – 13 CITY FUTURES

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
1	2	-	-	150	-	-	150

The course examines contemporary concerns and emerging theories in the construct of the city, recent urban initiatives, sustainable development, smart growth, ecosystem approach urban regeneration etc. 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 etc. 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.

UDC – 14 THESIS BY DESIGN

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
-	-	4	8	400	-	250	650

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 UDC – 15 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 etc.

UDM – 07 PROJECT PLANNING & FINANCE FOR URBAN DESIGN

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	50	50	-	1

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.

- Introduction to project planning, theories, concepts and management
- Overview of the various methodologies of planning

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- 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 etc. Case studies of successful projects and planning schemes are encouraged to be used as learning models.

UDE – 07 HOUSING – OR UDE- 08 COURSE FROM OTHER DEPARTMENT

Lectures/week	Seminar	Tutorial	Studio	Internal Marks	Examination	Jury	Total
2	-	-	-	100	-	-	100

Housing constitutes almost one half of our cities, is produced in a variety of ways and is a reflection of a settlements ethnic, social and economic groups; the objective of the course is to develop an understanding of the dynamics of traditional and contemporary housing and the emerging housing scenario in India.

- Overview of housing scenario in India, types of housing, demand and shortage
- Traditional housing stock, its contemporary condition and transformations
- Rent control laws, subdivision of property and its effect on traditional housing
- Social housing scenario and the role of the State Governments & NGO's
- Slums and squatter settlements, schemes for rehabilitation and improvement
- Social impact of planned housing
- Role of real estate developers and private builders in the housing sector, comparison with other Asian cities
- Housing as an investment, private public partnership and foreign direct investment their impact on the housing market
- Critical overview of the contribution of Central and State Governments, HUDCO, State Housing Boards, DDA, etc. in the production, control and management of housing
- Housing policy and future housing scenario in India.