

**UNIVERSITY OF PUNE**

**SYLLABUS FOR  
MASTER IN ARCHITECTURE  
M.ARCH (URBAN DESIGN)  
(To be implemented w.e.f. A.Y. 2014-15)**

**FACULTY OF ENGINEERING  
BOARD OF STUDIES IN ARCHITECTURE**

## **PROGRAM OBJECTIVES:**

The overall objectives of urban design education are:

- To prepare the students to develop a holistic view of the city as a basis for designing the city/city components in the third dimension.
- To contribute to the world-wide knowledge bank on urban design through primary/ secondary research, theoretical pursuits and publications.
- To contribute to a clearer understanding of cities, particularly of Indian cities, through research, documentation and urban design interventions.
- To address the various urban design issues that are faced by Pune City and places around Pune, through studio exercises, sponsored research and publications in collaboration with outside organizations and other schools of architecture.
- Through elective subjects, seminars, workshops and short-term courses and through collaborations with related disciplines, to develop research material and training modules for professionals and teachers.
- Through ensuring feed back into course contents, syllabus and pedagogic methods from all the above methods, to constantly improve the urban design education programme.

## **RULES OF COURSE STRUCTURE FOR MASTER OF ARCHITECTURE. M.ARCH. ( Urban Design )**

### **PROVISION OF INFRASTRUCTURE**

Course shall be conducted as per the guide lines laid down by the Council of Architecture, New Delhi, with respect to intake of students, class rooms, studios, laboratories, seminar rooms, library facilities, students amenities and all the appurtenant requirements to carry out teaching activity effectively.

### **APPOINTMENT OF TEACHING AND SUPPORTING STAFF**

The appointment of teaching staff shall be made as per the norms laid down by C.O.A. New Delhi and other statutory bodies as applicable.

### **RULE NO. 1 : ELIGIBILITY CRITERIA**

A student seeking admission to Master of Architecture Course must have secured minimum 50% marks in aggregate in a Bachelor of Architecture degree course or equivalent courses recognized by the apex body with / without valid GATE score. The students with valid GATE score shall be given preference and the students without GATE score shall be considered subject to the vacancy.

### **RULE NO. 2 : SCHEME OF ASSESSMENT:**

A candidate, to be eligible for the Masters Degree in Architecture, will be required to appear for and pass examinations as under

1. First Year M. Arch: SEM I AND SEM II
2. Second Year M. Arch. : SEM II AND SEM IV

University will declare combined result of

- SEM I + SEM II at the end of First Year and
- SEM III + SEM IV at the end of Second Year

### **RULE NO. 3 : GRANTING OF TERM**

Academic year will consist of TWO SEMESTERS of 90 teaching days each. Sessional work/assignments prepared by the students shall be continuously assessed by the Internal Teacher throughout the semester.

The candidate will be permitted to appear for the examinations at the end of each semester only if he/she keeps term at a college affiliated to the university and produces testimonials from the Principal for

1. 75% attendance in each head of passing of Theory and /or Sessional work as prescribed by the University.
2. Satisfactory completion of the Sessional Work prescribed for each subject and secured at least 50 % marks in the Internal Assessment for the same.
3. Good conduct.

### **RULE NO.4 : EXAMINATIONS**

At each examinations Theory Paper Sessional and Sessional and viva – voce based on Sessional Work, as prescribed in the syllabus for the Examination at the end of each semester, shall constitute separate heads of passing.

### **RULE NO. 5 : SESSIONAL WORK ASSESSMENT:**

In respect of Sessional work in First , Second, Third and Fourth semesters, target dates shall be fixed for the completion of each assignment. All assignments shall be continuously assessed by the Internal Teacher during each semester.

- b) For the First, Second, and Third Semester examinations, Sessional and Viva assessment will be done by an External Examiner, who is external to the college i.e. teacher from college other than one, whose students are being examined.
- c) For Fourth Semester examination, external assessment shall be carried out by a professional not teaching in any of the Colleges under University of Pune.
- d) An examiner for any of the subjects of examination shall have a minimum of 5 years of teaching/professional experience in his/her specific field of study.

### **RULE NO. 6: PRE REQUISITES AND RULES OF A.T.K.T. FOR ADMISSION TO HIGHER CLASSES**

This course has been considered as an integrated one and students will be allowed to take admission to second, third and fourth semesters irrespective of number of subjects in which they are failing.

### **RULE NO. 7 : CRITERIA FOR PASSING**

To pass the First and Second Year Examination, a candidate must obtain minimum 50 % marks in each paper, 50% in Sessional/Viva voce and 50% in aggregate.

## RULE NO. 8 : GRADING SYSTEM

### Assessment and Grade Point Average

#### R-8.1 Marks/Grade/Grade Point

A grade is assigned based on the total marks obtained by a student in all the heads of examination of the course. These grades, their equivalent grade points are given in Table 3.

The guidelines for conversion of marks to grades are given below.

Grade	Grade	Percentage of	Remarks
O	10	90-100	Outstanding
A	9	80-89	Very Good
B	8	70-79	Good
C	7	60-69	Fair
D	6	50-59	Average
E	0	Below 50	Fail

#### R-8.2 Passing Grade

The grades **O, A, B, C, D**, are passing grades. A candidate acquiring any one of these grades in a course shall be declared as pass. And student shall earn the credits for a course only if the student gets passing grade in that course.

#### R-8.3 E Grade

The grade **E** shall be treated as a failure grade. The student with **E** grade will have to pass the concerned course by re-appearing for the examination. The student with **E** grade for any stage of the Project Work, will have to carry out additional work/ improvement as suggested by the examiners and re-appear for the examination.

### Rule No. 9. PERFORMANCE INDICES:

#### R-9.1 SGPA

The performance of a student in a semester is indicated by a number called the Semester Grade Point Average (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses, seminars and projects registered by the student during the semester.

(i) Semester Grade Point Average (SGPA) =

$$SGPA = \frac{\sum_{i=1}^p C_i G_i}{\sum_{i=1}^p C_i}$$

$$SGPA = \frac{\sum \text{Grade Points Earned} \times \text{Credits for each course}}{\text{Total Credits}}$$

For Example: suppose in a given semester a student has registered for five courses having credits C1, C2, C3, C4, C5 and his / her grade points in those courses are G1, G2, G3, G4, G5 respectively. Then students

$$SGPA = \frac{C1G1 + C2G2 + C3G3 + C4G4 + C5G5}{C1 + C2 + C3 + C4 + C5}$$

SGPA is calculated up to two decimal places by rounding off.

### **R-9.2 CGPA**

The CGPA is the weighted average of the grade points obtained in all the courses, seminars and projects registered by the student since student is admitted to the college. It is calculated in the same manner as the SGPA.

**R-9.3** In case of a student clearing a failed course or improvement, the earlier grade would be replaced by the new grade in calculation of the SGPA and CGPA.

### **Rule No. 10. RESULT:**

**R-10.1** Based on the performance of the student in the semester examinations, the University of Pune will declare the results and issue the Semester Grade sheets.

The University of Pune will issue a Degree Certificate and the final grade sheet of Semester I, II, III & IV, to the student who is otherwise eligible for the award of Degree of Master of Architecture..

**R-10.2** The class shall be awarded to a student on the CGPA calculated based on all the four semesters. The award of the class shall be as per Table 4.

<b>Sr. No.</b>	<b>CGPA</b>	<b>Class of the Degree awarded</b>
1	7.75 or More than 7.75	First Class with Distinction
2	6.75 or more but less than 7.75	First Class
3	6.25 or more but less than 6.75	Higher Second Class
4	5.5 or more but less than 6.25	Second Class

### **RULE NO. 11 : EXEMPTIONS AND SUPPLEMENTARY EXAMINATION**

In case a candidate fails and desires to appear again,

- a) He/she will be exempted from appearing in the head/s of passing in which he/she has passed
- b) A candidate will have to appear for the examination of backlog subjects along with the examination of current semester.

### **RULE NO. 12 : OTHER RULES:**

University/ affiliated colleges may frame additional rules and regulations or modify these regulations if required, and once approved by the University, they would be binding on the students.

**UNIVERSITY OF PUNE**  
**COURSE STRUCTURE MASTER IN ARCHITECTURE (Urban Design)**  
**[TO BE IMPLEMENTED W.E.F.ACADEMIC YEAR 2014 - 2015]**

Credit Structure for M.Arch Programme					
Course work	Semester I	Semester II	Semester III	Semester IV	Total
Core courses	16	16	12	-	44
Elective Courses	2	2	2	-	6
Lab Courses + Supportive courses	7	7	3	-	17
Seminar	-	-	-	5	5
Project work	-	-	8	20	28
<b>Total</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>100</b>

SEMESTER I M.ARCH (Urban Design)														
S. No	SUBJECT	Course	Hrs /wk	period/wk	TEACHING SCHEME		EXAMINATION SCHEME						CREDIT S	
					Lect./Wk	Studio/Wk	Paper	TW	SESSIONAL		Oral			Total
									Int	Ext	Int	Ext		
	Urban Design Studio I	Core	9	12	2	10	-	-	100	100	100	100	400	9
	Site Planning	Core	4	6	2	4	-	-	75	75	-	-	150	4
	Urban Design Methodologies	Core	3	4	2	2	50	-	25	25	-	-	100	3
	Elective-1	Elective	2	3	1	2	-	-	50	50	-	-	100	2
	Reading the City - 1	Lab	4	5	3	2	-	-	75	75	-	-	150	4
	History of Urban Form & Space	Supportive	3	4	2	2	50	-	25	25	-	-	100	3
TOTAL (SEMESTER I)			25	34	12	22	100	-	350	350	100	100	1000	25

SEMESTER II M.ARCH (Urban Design)														
S. No	SUBJECT	Course	Hrs /wk	period/wk	TEACHING SCHEME		EXAMINATION SCHEME						CREDIT S	
					Lect./Wk	Studio/Wk	Paper	TW	SESSIONAL		Oral			Total
									Int	Ext	Int	Ext		
	Urban Design Studio II	Core	9	12	2	10	-	-	100	100	100	100	400	9
	Urban Design Theories & Criticism	Core	4	6	2	4	-	-	75	75	-	-	150	4
	Planning Tools for Urban Design	Core	3	4	2	2	50	-	25	25	-	-	100	3
	Elective II	Elective	2	3	1	2	-	-	50	50	-	-	100	2
	Reading the City - 2	Lab	4	5	3	2	-	-	75	75	-	-	150	4
	Infrastructure, Traffic & Transportation Planning	Supportive	3	4	2	2	50	-	25	25	-	-	100	3
TOTAL (SEMESTER II)			25	34	12	22	100	-	350	350	100	100	1000	25

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<b>SEMESTER III M.ARCH (Urban Design)</b>														
S. No	SUBJECT	Course	Hrs /wk	period/wk	TEACHING SCHEME		EXAMINATION SCHEME							CREDIT S
					Lect./Wk	Studio /Wk	Paper	TW	SESSIONAL		Oral		Total	
									Int	Ext	Int	Ext		
	Urban Design Studio III	Core	9	12	2	10	-	-	100	100	100	100	400	9
	Research Methodologies for Urban Design	Core	3	4	2	2	50	-	25	25	-	-	100	3
	Elective III	Elective	2	3	1	2	-	-	50	50	-	-	100	2
	Urban Conservation and Landscape	Supportive	3	4	2	2	50	-	25	25	-	-	100	3
	Urban Design Policies: Practice and Implementation**	Project work	8	11	5	6	-	-	75	75	75	75	300	8
<b>TOTAL (SEMESTER III)</b>			<b>25</b>	<b>34</b>	<b>12</b>	<b>22</b>	<b>100</b>	<b>-</b>	<b>275</b>	<b>275</b>	<b>175</b>	<b>175</b>	<b>1000</b>	<b>25</b>

\*\* This includes Professional Training (40working days) to be undertaken during intermediate time between II & III Semester, details of which are mentioned in the detailed syllabus. 4 credits out of the total 8 credits for the subject, will be dedicated to the professional training work. The Oral Assessment of the same will be held at the end of Semester III.

<b>SEMESTER IV M.ARCH (Urban Design)</b>														
S. No	SUBJECT	Course	Hrs /wk	period/wk	TEACHING SCHEME		EXAMINATION SCHEME							CREDIT S
					Lect./Wk	Studio /Wk	Paper	TW	SESSIONAL		Oral		Total	
									Int	Ext	Int	Ext		
	Urban Design Project	Project	20	27	9	18	-	-	300	300	100	100	800	20
	Research Paper	Seminar	5	7	3	4	-	-	100	100	-	-	200	5
<b>TOTAL (SEMESTER IV)</b>			<b>25</b>	<b>34</b>	<b>12</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>400</b>	<b>400</b>	<b>100</b>	<b>100</b>	<b>1000</b>	<b>25</b>

## SEMESTER –I

URBAN DESIGN STUDIO–1			
Subject Code -			
Teaching Scheme		Examination Scheme	
Hours / Week	9	Paper	Nil
Lectures/ week	2	Term work	Nil
Studio Periods/ week	10	Sessional (Internal)	100
<b>Total Contact Periods/ week</b>	<b>12</b>	Sessional (external)	100
		Oral (Internal)	100
		Oral (External)	100
<b>Total Credits</b>	<b>9</b>	<b>Total Marks</b>	<b>400</b>

### Objective:

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.

### Course Outline:

The studio will be divided to the following four modules:

- Documentation and presentation techniques of a precinct.
- Documenting the same precinct from infrastructure and urban management standpoint.
- Documenting the same precinct statistically and as a human network, through ownership, use cycles, association value etc.
- Identification of problems and issues. Compiling the documentation as a report.
- Conceptual Design Scheme.

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

### The Design Workshop:

The studio needs to have an inbuilt Design workshop/s. This is a seminar course conducted by invited professionals who may demonstrate the design development process of project, funding and management issues.

This is an interactive session in which students will directly interact with the professionals after the presentation. Projects may vary in scale and content and should preferably raise urban level or fundamental design issues.



**Sessional Work:**

For this subject students will be assessed based on their process/es of documentation, methods of analysis and the basic understanding of the urban design process along with the content.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Comprehensive report of documentation, studies and analysis done by students in groups of four or five each. (not less than A2 / Half Imperial –size)
- b. Design portfolio showing design decision process and conceptual design done by students in groups of four or five each. (A1 or max. A0 size / Full imperial size)

**Learning Outcome:**

Students will appreciate, understand and analyze real site conditions in an urban area, learn survey and documentation techniques, assessing needs and programming for design intervention.

<b>SITE PLANNING</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	4	Paper	Nil
Lectures/ week	2	Term work	Nil
Studio Periods/ week	4	Sessional (Internal)	75
<b>Total Contact Periods/ week</b>	<b>6</b>	Sessional (external)	75
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>4</b>	<b>Total Marks</b>	<b>150</b>

**Objective:**

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

**Course Outline:**

- a. Introduction to site planning & Ecology, Site Planning philosophy
- b. Ecological factors in site evaluation
- c. Site resource systems
  - i. Physiographic
  - ii. Geology and soils
  - iii. Hydrology
  - iv. Micro-climate
  - v. Vegetation
  - vi. Wild life, terrestrial and aquatic
- d. Cultural resources
- e. Urban vegetation, planning & maintenance
- f. Ecological planning processes, theories and approaches
- g. Road layout and parking
- h. Site grading and drainage
- i. Sewerage, water supply and electricity
- j. Surveys and overlays
- k. Site planning goals and objectives, programme development

The studio will choose a suitable site where the students will map, evaluate and analyse the site from the knowledge imparted in the theory classes and will produce a site plan for an appropriate design programme having multiple activity/functional zones.

**Sessional Work:**

For this subject students will be assessed based on their process/es of documentation, methods of analysis and the judicious understanding of the site planning process along with the content.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Comprehensive report of appropriate data collection, documentation, studies and analysis done by students in groups of two or three. (not less than A2 / Half Imperial –size)
- b. Site planning portfolio showing planning & design decision process and conceptual design done by students in groups of two or three each. (A1 or max. A0 size / Full imperial size)

**Learning Outcome:**

Students will be enabled to deal with varying site-based natural and ecological systems with reference to urban design projects and the city at large.

**Suggested Reading/References:**

Kevin Lynch, Good City form, MIT Press, Cambridge  
 Kevin Lynch and Gary Hack, Site Planning, MIT Press, Cambridge  
 Peter Jacobs and Douglas Way, Visual Analysis of Landscape Development, Harvard press  
 Gary O. Robinette (Ed), Landscape Planning and Energy Conservation, Van-Nostrand Reinhold

<b>URBAN DESIGN METHODOLOGIES</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	3	Paper	50
Lectures/ week	2	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	25
<b>Total Contact Periods/ week</b>	4	Sessional (external)	25
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>3</b>	<b>Total Marks</b>	<b>100</b>

**Objective:**

The objective of the course is to provide explanations of Urban Design terminologies, definitions and methodologies for shaping and understanding of urban form; derived from both theory and empirical evidence and drawing references from texts such as those of Sprerigen, Lynch, Alexander, Jacobs, Venturi, Rossi, etc.

**Course Content:**

- 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

**Sessional Work:**

Assignment/s need to explore various urban design methodologies, their theoretical background, their understanding of urban form & space and their applications.

Minimum Assignment/s submissions towards Sessional Work& Oral Examinations shall include:

- Each student will study urban design methodologies in terms of its background, its conception, its details, its reflection on urban form & space, and its relevance in today's context, etc. (A2/half imperial size report by individual student)
- Assignment to be designed by the tutor to understand its application in an appropriate context. (A2/ half imperial size report by individual student)

**Learning Outcome:**

Students are exposed to different methodological approaches, technologies and foundation theories of urban design.

**References:**

Broadbent, Geoffrey. Emerging Concepts of urban Design  
 Bacon, Edmund, N. Design of Cities  
 Gosling, David & Maitland, Barry, Concepts of Urban design  
 Morris, Anthony, J.E. History of Urban Form  
 Kostof, Spiro, The City Assembled: The Elements of Urban Form Through History  
 Kostof, Spiro, City Shaped: Urban Patterns and Meanings through History

<b>ELECTIVE-1</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	2	Paper	Nil
Lectures/ week	1	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	50
<b>Total Contact Periods/ week</b>	3	Sessional (external)	50
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>2</b>	<b>Total Marks</b>	<b>100</b>

**Objective:**

Objective of the elective is to exposed students to the idea of understanding the process of urbanism critically in contemporary context, its issues, its dilemmas, ideologies and new patterns that are emerging.

**Suggested List of Topics:**

Indian Urbanism,  
Comparative Urbanism,  
Contemporary Theories of Urbanism and Architecture,  
Contemporary Design Theories and Criticism, etc.  
*Or, any other topic that falls under this category*

**Sessional Work:**

Term work could be decided by the respective tutor conducting a specific elective. Sufficient number of assignments to be conducted and the same to be designed in such a manner that student's critical understanding of the urbanism and its various aspects and its issues could be assessed.

**Learning 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>READING THE CITY-1</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	4	Paper	Nil
Lectures/ week	3	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	75
<b>Total Contact Periods/ week</b>	<b>5</b>	Sessional (external)	75
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>4</b>	<b>Total Marks</b>	<b>150</b>

**Objective:**

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.

**Course Outline:**

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

**Sessional Work:**

There will be a Seminar done by an individual student that will enquire into the range of tools that contribute to urban morphology, development regulations, and urban processes, non- formal settlements, etc. Seminar should necessarily explore the theoretical understanding of these various aspects.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Report based on seminar topic (A4 size) with appropriate case references need to produced individually. (Number of words = 4000 to 5000)
- b. Power point presentation of the seminar topic

**Learning Outcome:**

To expose students in theoretical discourses related to City Space, Economics, Politics & Governance using current practices and knowledge.

<b>HISTORY OF URBAN FORM &amp;SPACE</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Lectures/ week	3	Paper	50
Studio Periods/ week	2	Term work	Nil
<b>Total Contact Periods/ week</b>	2	Sessional (Internal)	25
	4	Sessional (external)	25
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>3</b>	<b>Total Marks</b>	<b>100</b>

### Objective:

The course is intended as a comprehensive study of urban form and urban spaces in historical and theoretical terms.

### Course Outline:

1. Introduction to urban design – ideology/theory and the various concerns of the field. Urban Design through history
2. Introduction and Study - the evolution of city form- morphology (Urban form and Urban Process). Various theoretical views associated with nature of cityform - Normative and positive theories; Cosmic, Machine and Organic Models; Descriptive and functional theories; Alternative theoretical postulations.
3. Study of the evolution of urban form (western context)
  - a. 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, Cities of theory and sweat equity & highway.)
  - b. 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)
  - c. Comparison between the various perspectives of studying and analyzing urban form- space; conservation and the life of urban form.
4. Understanding Urban Process (rise and fall of cities; disaster; destruction; haussmanization; incremental changes; urban renewal)
5. Modern and post-modern urbanist theories (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)

### Sessional Work:

The assignments will study a variety of public spaces both historical and contemporary critically analyzing the origins and their derivatives to explore the relationship between its form and their derivatives.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Each student will study minimum five urban spaces from different context & theoretical background, to understand its form, its origins, its derivatives and its diagrams. A2/ half imperial report to be produced individually for termwork.

**Learning Outcome:**

Students are equipped to be exposed to the historical evolution of urban space and understanding of the morphological dimensions of public spaces.

**References:**

Spiro Kostof , The City Assembled , Thames and Hudson.  
Spiro Kostof , The City Shaped, Thames and Hudson.  
Jon Lang , Urban Design Typology and procedures, Architectural Press  
A.E.J. Morris , History of Urban Form, Longman Scientific and Technical.  
Kevin Lynch , Good City Form, MIT Press.  
Edmund Bacon, Design of Cities.  
Geoffrey Broadbent, Emerging Concepts of urban Design

## SEMESTER –II

URBAN DESIGN STUDIO–2			
Subject Code -			
Teaching Scheme		Examination Scheme	
Hours / Week	9	Paper	Nil
Lectures/ week	2	Term work	Nil
Studio Periods/ week	10	Sessional (Internal)	100
<b>Total Contact Periods/ week</b>	12	Sessional (external)	100
		Oral (Internal)	100
		Oral (External)	100
<b>Total Credits</b>	<b>9</b>	<b>Total Marks</b>	<b>400</b>

### Objective:

The objective of this studio is to hone the theoretical knowledge of the student from the first semester in resolving a design problem on a Green Field site.

### Course Outline:

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.

### Sessional Work:

For this subject students will be assessed based on their process/es of documentation, methods of analysis, theorisation and articulation of the design problem and the design response.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Comprehensive report of documentation, studies and analysis done by students in groups of four or five each. (not less than A2 / Half Imperial –size)
- b. Design portfolio-1 showing theorisation and articulation of design problem, design decision process, master plan & design strategies done by students in groups of four or five each. (A1 or max. A0 size / Full imperial size)
- c. Design Portfolio-2 showing design demonstration by an individual student for a part of from the master plan. (A1 or max. A0 size / Full imperial size)

### Learning Outcome:

Students are enabled to conceive urban design projects for green-field sites preferably for live and real urban conditions, thereby understanding client dynamics as well as tangible deliverables.



<b>URBAN DESIGN THEORIES AND CRITICISM</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	4	Paper	Nil
Lectures/ week	2	Term work	Nil
Studio Periods/ week	4	Sessional (Internal)	75
<b>Total Contact Periods/ week</b>	<b>6</b>	Sessional (external)	75
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>4</b>	<b>Total Marks</b>	<b>150</b>

### **Objectives:**

This is in continuation to the history of urban form and space studied in the first terms, explores the evolution of ideas and principles of Urban Design by centering on the relationship between societal change and the formal organization of the urban environment. 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.

### **Course Outline:**

A critical understanding of changing attitudes towards urbanism and urban spaces  
A critical examination of current trends in contemporary architecture and planning in India

### **Sessional Work:**

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

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Comprehensive Analytical Report based on seminar topic (A2 size) with appropriate case references and theories need to be produced individually.
- b. Power point presentation of the seminar topic

### **Learning Outcome:**

Students are equipped to study and understand the urban spaces critically in terms of their production processes and their performances as social and public spaces

### **References:**

Spiro Kostof , The City Assembled , Thames and Hudson.  
Spiro Kostof , The City Shaped, Thames and Hudson.  
Jon Lang , Urban Design Typology and procedures, Architectural Press  
A.E.J. Morris , History of Urban Form, Longman Scientific and Technical.  
Kevin Lynch , Good City Form, MIT Press.  
Edmund Bacon, Design of Cities.  
Geoffrey Broadbent, Emerging Concepts of urban Design

<b>PLANNING TOOLS FOR URBAN DESIGN</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	3	Paper	50
Lectures/ week	2	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	25
<b>Total Contact Periods/ week</b>	4	Sessional (external)	25
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>3</b>	<b>Total Marks</b>	<b>100</b>

### **Objective:**

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 relevant City Master Plan is to be used as a case example to understand planning processes and its impact on the production of the City.

### **Course Content:**

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

### **Sessional Work:**

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Sufficient number of tutorials in the class to review students understanding of the subject.
- b. Critical report writing on any one of the planning tool for urban design (A4 size report upto 1500 words with appropriate figures, images, diagrams, etc.)

### **Learning Outcome:**

Students are equipped with necessary information on town planning theories, principles, techniques and methodologies.

<b>ELECTIVE-2: INTERDISCIPLINARY ELECTIVE</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	2	Paper	Nil
Lectures/ week	1	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	50
<b>Total Contact Periods/ week</b>	3	Sessional (external)	50
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>2</b>	<b>Total Marks</b>	<b>100</b>

**Objective:**

To develop lateral thinking towards understanding of the cities and its complexities

**List of Suggested Topics:**

Imagining Cities in Visual Arts, Imagining Cities in Performing Arts, Imagining Cities in Literature, Imagining Cities in Cinema, Urban form and Sociology, Urban Aesthetics, Landscape Urbanism, Art and Science of Conservation, G.I.S. and other softwares, Computer Aided Urban Design, etc. Or, any other elective topic offered under second term of any other M.Arch. course like Landscape, Conservation, etc. offered under University of Pune.

**Sessional Work:**

Term work could be decided by the respective tutor conducting a specific elective. Sufficient number of assignments to be conducted and the same to be designed in such a manner that student's ability to think laterally about the cities and its complexities could be assessed.

**Learning Outcome:**

Students are exposed to:

- The alternative perspectives to look at the cities and its dynamics
- The lateral ideas about the perceptions, conceptions and the representations of the cities

<b>READING THE CITY-2</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	4	Paper	Nil
Lectures/ week	3	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	75
<b>Total Contact Periods/ week</b>	5	Sessional (external)	75
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	4	<b>Total Marks</b>	<b>150</b>

### **Objective:**

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.

### **Course Content:**

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

**Sessional Work:**

The Seminar, through case studies will seek to establish an understanding of the process of layering – to read the current city backwards. Assignment to be judged for student’s ability to theorise and articulate his/her thought/reading of the context.

Minimum Assignment/s submissions towards Sessional Work & Oral Examinations shall include:

- a. Report based on seminar topic (A4 size) with appropriate case references need to produced individually. (Number of words = 4000 to 5000)
- b. Power point presentation of the seminar topic

**Learning 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>INFRASTRUCTURE, TRAFFIC AND TRANSPORT PLANNING</b>			
<b>Subject Code -</b>			
<b>Teaching Scheme</b>		<b>Examination Scheme</b>	
Hours / Week	3	Paper	50
Lectures/ week	2	Term work	Nil
Studio Periods/ week	2	Sessional (Internal)	25
<b>Total Contact Periods/ week</b>	4	Sessional (external)	25
		Oral (Internal)	Nil
		Oral (External)	Nil
<b>Total Credits</b>	<b>3</b>	<b>Total Marks</b>	<b>100</b>

**Objective:**

The course is intended as an introduction to the infrastructure needs of an urban environment and fundamental concepts which cater to such needs. It is also intended as an introduction to the issues related to traffic and transportation in cities. In addition, it is intended to provide an overview of the transportation planning process.

**Course Outline:**

1. Concepts of urban infrastructure, social and physical infrastructure.
2. Urban Form, Size and implications on services. Layout of urban area, siting of services and landuse and efficiency. Basics of service network - Water supply, sewerage/drainage and waste management.
3. Urban Social infrastructure; qualitative and quantitative techniques of assessing requirements, planning amenities and institutions.
4. Financing of infrastructure needs of city; national and international agencies involved in infrastructure provisions.
5. Introduction: Scope of urban transport planning, interdependency of land use and traffic system, traffic system approach to urban transportation.

6. Stages in Urban Transportation: Trip generation, trip production, trip distribution, modal split and trip assignment.
7. Urban Transportation surveys: Definition of study area, zoning, types of surveys, Forecasting traffic in relation planned land use. Principles of planning and design of road network and engineering classification of roads, intersections and elevated roads.
8. Land Use Transport models: Lowry model, Garin-Lowry Model, applications in India.
9. Public Transportation modes: Systems in India, problems and prospects, present practices in urban transportation. Metro, mono, and high capacity buses. System selection.
10. Intersection Design: Elements of intersection maneuver area, types of intersections, flyover, grade separators, subways, underpass, and suitability of each type. Rotary and its design, Roundabouts, etc.

### **Sessional Work:**

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

### **Learning Outcome:**

Students are informed of urban infrastructure both social and physical, transportation systems, standards policies and techniques for design of pedestrian spaces, parking and other modes of travels, etc. along with their relationship with urban design.

### **References:**

Kadiyali L.R. Traffic Engineering and Transportation Planning, Khanna Publications.  
 Dimitriou H.T. Urban Transport Planning and Developmental Approach, Routledge, London.  
 Michael J Bruton, An Introduction to Transportation Planning, Hutchinson, London.  
 Black John, Urban Transport Planning and Design, Crown Helm Ltd, London.  
 Papacostas and Prevendours, Transportation Engineering and Planning, PHI Publication.  
 Khisty and Lal, Transportation Engineering PHI publication.  
 CPHEERI Manual on Water Supply and Sewerage, New Delhi.  
 T.P. Salvats, Environmental Engineering and Sanitation, Wiley and Sons, New York