

SAVITRIBAI PHULE PUNE UNIVERSITY
(FORMERLY UNIVERSITY OF PUNE)



SYLLABUS FOR
MASTERS IN ARCHITECTURE
M.ARCH (URBAN DESIGN)
(To be implemented w.e.f. A.Y. 2019-20)

BOARD OF STUDIES IN ARCHITECTURE
FACULTY OF SCIENCE AND TECHNOLOGY

PREAMBLE

Urban Design Program under the Savitribai Phule Pune University (SPPU) focuses on the built environment as an agent of resilient transformation and the role of design in redefining the future urban landscapes. Conceived as a two-year (four semester) program, the course emphasizes on new paradigms for research, practice and pedagogy to address the critical and urgent challenges of unchecked rapid urbanization, the ever increasing threats of climate change, quality of habitable environments and its ill effects on urban health, growing needs of affordable housing and social inequality.

Students along with the faculty in the program aim to integrate/ fill the essential voids in the process of urbanization. Current times calls for reevaluating the paradigms needed for a guided urban growth for the future in response to the numerous global and local urban development challenges. The course further attempts to evaluate and reestablish the definition the definition of Urban design in the context of global and local scales.

The various studios and courses in the curriculum structure stresses near and long term threats to local, regional and global ecosystems, framing urban design as both an inclusive, activist, tools-based project for specific conditions and communities and as a critical exercise examining urban form and space, knowledge and research processes.

The course structure encourages the students to evolve oneself to acquire skills to assume professional practice responsibilities and work as a part of a larger interdisciplinary group within the realm of urban development.

PROGRAM EDUCATIONAL OBJECTIVES [PEO]

1. To prepare the students to develop a holistic view of the city as a basis for designing the built environment and public realm in the third dimension.
2. To examine and further conceptualize the definition of the idea of ‘Urban’ in the Indian context.
3. To mediate between various faculties viz. Architecture, Urban Planning, Infrastructure Planning, Landscape, Urban Economics, Behavioral Sciences, etc.
4. To closely work with professionals of diverse disciplines, citizens groups and Public Authorities and involving various stakeholders, both human and non-human.
5. To have a balanced focus on research and design. The program is not purely research based but highlights the need to interpret and assimilate research findings into design. The student by the end of the course should demonstrate his / her ability to conceptualize, inspect and synthesize environmental objectives, design methods, and contextual issues in urban condition.
6. To equip students to set “their agenda for Urban Design”.
7. To enable students to acquire skills to assume professional practice responsibilities and to offer professional services.

PROGRAM OUTCOMES [PO]

1. Students equipped to understand, surveying and documentation techniques, and analyse real site conditions in an urban area, assessing needs and preparation of programming of design intervention and design demonstration.

2. Students equipped to understand the urban spaces critically in terms of their processes, outcomes and performances.
3. Students enabled to understand client dynamics and tangible deliverables through working on live and real case situations in the studio.
4. Students exposed to the need of research in Urban Design, essentials of any research and various research methodologies used in Urban Design along with developing the skill of technical writing.
5. Students equipped with necessary information on various interdisciplinary theories, principles, techniques and methodologies.
6. Students enabled to deal with varying site-based natural and ecological systems with reference to urban design projects and the region at large.
7. The students expected to learn to work as a team member towards a holistic development of the built environment.
8. Students exposed to various modes of professional practice in urban design in local and global context through practical training as well as through theory course.
9. Students will learn to take a position and be able to develop their own argument regarding an issue or the aspect of human settlement/town/city and demonstrate their response through design and implementation strategies.

Sr.No.	Program Outcomes	Subjects in curriculum
1	PO1-	<ul style="list-style-type: none"> • Thesis • Urban Design Studios • Urban Design Methodologies • Reading The City • Landscape Urbanism And Site Planning • Planning Tools For Urban Design
2	PO2-	<ul style="list-style-type: none"> • Thesis • Urban Design Studios • Urban Design Methodologies • History Of Urban Form And Space • Urban Design Theories And Criticism • Landscape Urbanism And Site Planning • Emerging Urbanization
3	PO3-	<ul style="list-style-type: none"> • Thesis • Urban Design Studios • Urban Design Policies , Planning And Implementation • Planning Tools For Urban Design • Urban Systems • Urban Economics
4	PO4-	<ul style="list-style-type: none"> • Research Methodologies For Urban Design • Research Paper • Thesis • Reading The City • Urban Design Theories And Criticism • Emerging Urbanization

5	PO5-	<ul style="list-style-type: none"> • Landscape Urbanism And Site Planning • Urban Conservation • Reading The City • Electives • Urban Economics And Financial Planning • Urban Systems
6	PO6-	<ul style="list-style-type: none"> • Landscape Urbanism And Site Planning • Planning Tools For Urban Design • History Of Urban Form And Space
7	PO7-	<ul style="list-style-type: none"> • Thesis • Urban Design Studios • Landscape Urbanism And Site Planning • Urban Design Policies , Planning And Implementation • Electives
8	PO8-	<ul style="list-style-type: none"> • Emerging Urbanization • Urban Design Policies , Planning And Implementation
9	PO9-	<ul style="list-style-type: none"> • Thesis • Urban Design Studios • Research Methodologies For Urban Design • Research Paper

Sr.No.	Electives	Tentative Subjects of Electives
01	Elective I [Sem one]	Humanities and Social Sciences
02	Elective II [Sem two]	Interdisciplinary Design and Planning fields
03	Elective V [Sem four]	Open Elective

Note- The Institute shall have the freedom to offer listed or any additional subjects based on the availability of experts.

MATRIX OF PROGRAM EDUCATIONAL OBJECTIVES AND PROGRAM OUTCOMES

PEO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
PE01	√		√		√	√			√
PE02	√	√		√					√
PE03					√	√	√	√	
PE04	√		√		√	√			√
PE05	√				√				√
PE06				√	√			√	√
PE07	√		√				√	√	√

Semester I

S. No.	Course	Course	Course	Contact Periods	Theory /	Studio /	Credits	Examination Scheme				Marks
	Code	Title	Type	(60 mins)	Week	Week		SS	SV	Theory		
										In Semester	End Semester	
1	2019UD101	UD Studio – I : Urban Interventions	Core Subject - 1	10	2	8	10	-	400	Nil	Nil	400
2	2019UD102	Elective I	Elective - I	3	2	1	3	100	Nil	Nil	Nil	100
3	2019UD103	Landscape Urbanism and Site Planning	Core Subject - 2	4	2	2	4	200	Nil	Nil	Nil	200
4	2019UD104	History of urban Form and Space	Supportive - 1	3	2	1	3	Nil	Nil	30	70	100
5	2019UD105	Urban Design Methodologies	Supportive - 2	3	2	1	3	Nil	Nil	30	70	100
6	2019UD106	Reading the City	Lab	2	1	1	2	100	Nil	Nil	Nil	100
				25	11	14	25	400	400	60	140	1000

Semester II

S. No.	Course	Course	Course	Contact Periods	Theory /	Studio /	Credits	Examination Scheme				Marks
	Code	Title	Type	(60 mins)	Week	Week		SS	SV	Theory		
										In Semester	End Semester	
1	2019UD201	UD Studio – II : Urban Extensions / Green Field Development	Core Subject - 1	10	2	8	10	-	400	Nil	Nil	400
2	2019UD202	Elective - II	Elective - II	3	2	1	3	100	Nil	Nil	Nil	100
3	2019UD203	Urban Design Theories and Criticism	Core Subject - 2	4	2	2	4	200	Nil	Nil	Nil	200
4	2019UD204	Research I	Supportive - 1	3	2	1	3	Nil	Nil	30	70	100
5	2019UD205	Planning Tools for Urban Design	Supportive - 2	3	2	1	3	Nil	Nil	30	70	100
6	2019UD206	Urban Systems	Lab	2	1	1	2	100	Nil	Nil	Nil	100
				25	11	14	25	400	400	60	140	1000

Semester III

S. No.	Course	Course	Course	Contact Periods	Theory /	Studio /	Credits	Examination Scheme				Marks
	Code	Title	Type	(60 mins)	Week	Week		SS	SV	Theory		
										In Semester	End Semester	
1	2019UD301	UD Studio – III : Urban Transformations	Core Subject - 1	10	2	8	10	-	400	Nil	Nil	400
2	2019UD302	Research II	Elective - I	3	2	1	3	100	Nil	Nil	Nil	100
3	2019UD303	Urban Design Policies : Practice and Implementation**	Core Subject - 2	4	2	2	4	-	200	Nil	Nil	200
4	2019UD304	Urban Conservation	Supportive - 1	3	2	1	3	Nil	Nil	30	70	100
5	2019UD305	Urban Economics and Financial Planning	Supportive - 2	3	2	1	3	Nil	Nil	30	70	100
6	2019UD306	Emerging Urbanisation	Lab	2	1	1	2	100	Nil	Nil	Nil	100
				25	11	14	25	200	600	60	140	1000

**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.

Semester IV

S. No.	Course	Course	Course	Contact Periods	Theory /	Studio /	Credits	Examination Scheme				Marks
	Code	Title	Type	(60 mins)	Week	Week		SS	SV	Theory		
										In Semester	End Semester	
1	2019UD401	Urban Design Project	Core Subject - 1	20	4	16	20	-	800	Nil	Nil	800
2	2019UD402	Elective – III*	Elective - III	5	1	4	5	100	Nil	Nil	Nil	200
				25	11	14	25	400	400	60	140	1000

*Elective III can be offered as an open elective. In case it is not possible to offer open elective, colleges should offer any elective from the list of electives which the student has not undertaken in any previous semester.

SEMESTER –I

SUBJECT TITLE: UD STUDIO–I : URBAN INTERVENTIONS				
Subject Code: 2019UD101				
Teaching Scheme		Examination Scheme		Marks
Theory Periods per week	2	Sessional		300
Studio Periods per week	8	Viva/Oral		100
Total Contact Periods (60 min period) per week	10	In-semester Examination		Nil
		End-semester Examination		Nil
Total Credits	10	Total Marks		400

COURSE OBJECTIVES:

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 CONTENT:

The studio will be divided to following Units:

Unit-1: Documentation and presentation techniques of a precinct

Unit-2: Documenting the precinct from infrastructure and management standpoint

Unit-3: Documenting the same precinct statistically and as a human network, through ownership, use cycles, association value, etc.

Unit-4: Identification of problems and issues

Unit-5: Conceptual Design Scheme

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

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

Minimum assignment submissions towards sessional work and oral examination shall include:

1. Comprehensive report of documentation, studies and analysis done by students in groups not more than four each
2. Design portfolio showing design decision process and conceptual design done by students in groups not more than four in each

OUTCOME:

Students will appreciate, understand and analyse real site conditions in an urban area, learn survey and documentation techniques, assessing needs and preparation of programming of design intervention and design demonstration.

RECOMMENDED READINGS:

Lynch, K., (1981). *A Theory of Good City Form*. Cambridge, Mass: MIT Press.

Lynch, K., (1960). *The Image of the City*. Cambridge, Mass: MIT Press.

Lang, J., (2005). *Urban Design: A typology of Procedures and Products*. Architectural Press.

SUBJECT TITLE: ELECTIVE-I:				
Subject Code: 2019UD102				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	2	Sessional	100	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

To expose students to the idea of understanding the various aspects of ‘**Humanities & Social sciences**’ through acknowledging and studying the process of urbanism critically in contemporary context, its issues, its dilemmas, ideologies and new patterns that are emerging.

COURSE CONTENT:

The content can be defined by the institute based on its ideology, line of thought, context & availability of expert faculty to conduct this elective.

Suggested topics for elective (but not specific) are:

Unit-1: Democratic space in the urban context

Unit-2: Bottom up approach in urban design

Unit-3: Advocacy & people’s participative approach in Urban design

Unit-4: Human element in urban spaces defined by people.

Unit-5: Community systems in traditional neighborhoods, etc.....

(or, any other topic that falls under this category)

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

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

OUTCOME:

Students are exposed to different approaches under the domain of humanities & social sciences

RECOMMENDED READINGS:

All books/ Journals/ magazines / unpublished/ published thesis/ research related to the topic of elective offered.

SUBJECT TITLE:				
LANDSCAPE URBANISM AND SITE PLANNING				
Subject Code: 2019UD103				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	2	Sessional	200	
Studio Periods per week	2	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	4	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	4	Total Marks	200	

COURSE OBJECTIVES:

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

COURSE CONTENT:

Unit-1: Introduction to site planning and ecology, Site Planning Philosophy

Unit-2: Ecological planning processes, theories and approaches

Unit-3: Site Resource Systems: Physiography, Geology and Soil, Hydrology, Micro-climate, Vegetation, Wild life, terrestrial and Aquatic

Unit-4: Urban Landscape, planning and maintenance

Unit-5: Site grading, road networks and drainage; Services and related infrastructure with respect to natural resources

Unit-6: Surveys and Overlays; Site Planning goals and objectives, programme development, etc.

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.

SUBMISSION REQUIREMENT FOR 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 shall include:

- Comprehensive report of appropriate data collection, documentation, studies and analysis done by students in groups not more than three
- Site planning portfolio showing planning & design decision process and conceptual design done by students in groups not more than three

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.

RECOMMENDED READINGS:

Lynch, K., Hack, G., (1984). *Site Planning*. Cambridge, Mass: MIT Press.

McHarg, I.L., (1969). *Design with Nature*. New York: the Natural History Press.

Robinette, G., (1983). *Landscape Planning for Energy Conservation*. Van Nostrand Reinhold

SUBJECT TITLE: HISTROY OF URBAN FORM AND SPACE				
Subject Code: 2019UD104				
Teaching Scheme		Examination Scheme	Marks	Duration
Theory Periods per week	2	Sessional	Nil	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	30	
		End-semester Examination	70	150 min
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

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

COURSE CONTENT:

Unit-1: Introduction to Urban Design – ideology/theory and the various concerns of the field. Urban Design through history.

Unit-2: Introduction and Study - the evolution of city form - morphology (Urban Form and Urban Process). Various theoretical views associated with nature of city form - Normative and positive theories; Cosmic, Machine and Organic Models; Descriptive and functional theories; alternative theoretical postulations.

Unit-3: Study of the evolution of settlement patterns and urban form & space chronologically through history (The Early Towns, Renaissance, Temple Towns, Medieval Towns, Colonial Towns, Modern city; early cities of capitalism, City beautiful movement, cities in the garden, Contemporary and Global cities, etc.)

Unit-4: Understanding Urban Process (rise and fall of cities; disaster; destruction; incremental changes; urban renewal, etc.)

OUTCOME:

Students are equipped to be exposed to the historical evolution and transformation of settlement pattern along with urban form and space.

RECOMMENDED READINGS:

Kostof, S., (1992). *The City Assembled*. London: Thames and Hudson Ltd.

Kostof, S., (1991). *The City Shaped*. London: Thames and Hudson Ltd.

Lang, J., (2005). *Urban Design: A typology of Procedures and Products*. Architectural Press.

Morris, A. E. J., (1994). *History of Urban Form before the Industrial Revolution*. London: Routledge

Lynch, K., (1981). *A Theory of Good City Form*. Cambridge, Mass: MIT Press.

Bacon, E. N., (1974). *Design of cities*. New York: Viking Press.

Broadbent, G., (1995). *Emerging Concepts in Urban Space Design*. Taylor & Francis.

SUBJECT TITLE:				
URBAN DESIGN METHODOLOGIES				
Subject Code: 2019UD105				
Teaching Scheme		Examination Scheme	Marks	Duration
Theory Periods per week	2	Sessional	Nil	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	30	
		End-semester Examination	70	150 min
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

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 various theories and texts in Urban design both global as well as regional.

COURSE CONTENT:

Unit-1: Basic terminologies in Urban Design

Concepts of place and space
Urban design terminologies and definitions

Unit-2: Mapping methods

Methods of urban design surveys, documentation and representation
Cognitive mapping – contemporary and traditional

Unit-3: Urban space determinants & analytical methods

Determinants of urban form including Size, shape and form of cities
Urban Space analysis

Unit-4: Complex urban structure & various layering methods

Components of urban structure
Concepts of layering in urban fabric

Unit-5: Methods related to typological studies

Typological studies of Urban form, urban space with relation to the context (physical, cultural natural etc) & architectural scale of the spaces
Architectural expression of urban form & space

OUTCOME:

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

RECOMMENDED READINGS:

- Alexander, C. (1987). *A New Theory of Urban Design*. New York: Oxford University Press.
Correa, C., (2000). *Housing & Urbanization*. New York: Thames and Hudson.
Rossi, A., (1982). *The Architecture of the City*. Cambridge, Mass: MIT Press.
Rapoport, A. (1969). *House Form and Culture*. Englewood Cliffs, N.J: Prentice-Hall
Gosling, D. and Maitland, B. *Concepts of Urban Design*. St. Martins Press
Kostof, S., (1992). *The City Assembled*. London: Thames and Hudson Ltd.
Kostof, S., (1991). *The City Shaped*. London: Thames and Hudson Ltd.
Bacon, E. N., (1974). *Design of cities*. New York: Viking Press.

SUBJECT TITLE: READING THE CITY				
Subject Code: 2019UD106				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	1	Sessional	100	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	2	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	2	Total Marks	100	

COURSE OBJECTIVES:

To understand production of culture in contemporary India drawn from various disciplines like history, sociology, humanities, political studies, economics and technology and their implications on city space.

COURSE CONTENT:

The course is structured around three modules:

Unit-1: City and Society:

- City as a human network – social structure and urban form
- Contemporary Culture – The Metropolitan Experience
- Social access and Territories –exclusion and inclusion of various groups of society

Unit-2: Economics, Politics and Governance:

- Theories of development, debates on development –progress – growth
- History of economic thought and spatial dimension of it
- City Governance in India

Unit-3: City Space:

- The idea of urban, urbanization and urbanism
- Notions of a city, urban society and culture
- Suburban India, everyday space in the city
- City as contested space
- Notions of space and place with reference to indigenous cities

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

There will be a Seminar done by an individual student that should necessarily explore the theoretical understanding of these various aspects mentioned above.

Minimum Assignment/s submissions towards Sessional Work shall include:

- a. A seminar paper (A4 size) with appropriate case references need to produced individually. (Number of words = 4000 to 5000)
- b. Power point presentation of the same

OUTCOME:

To understand the relation between the city space and its morphology and the processes of production of culture

RECOMMENDED READINGS:

The Rutledge Urban Reader Series-

Lin,J.and Mele,C.(2003).*The Urban Sociology Reader*. London:Rutledge

Borden, I., Hall, T., and Miles, M. (2000). *The City Culture Reader*. London:Rutledge

SEMESTER –II

SUBJECT TITLE: UD STUDIO–II : URBAN EXTENSIONS/GREEN FIELD DEVELOPMENT				
Subject Code: 2019UD201				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	2	Sessional	300	
Studio Periods per week	8	Viva/Oral	100	
Total Contact Periods (60 min period) per week	10	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	10	Total Marks	400	

COURSE OBJECTIVES:

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 CONTENT:

Unit-1: The studio shall look at cities, their growth outside their realm and methods to deal with it within the context of the city itself.

Unit-2: A holistic (theoretical as well as physical) understanding of the site, its potentials, its constraints to be developed to create a set of proposals dealing with broad issues of sustainable development.

Unit-3: To document and draw references from the existing / surrounding built environment for the new proposed development.

Unit-4: To evolve a Design brief after an exhaustive analysis of the above mentioned data, all within the limitations of the established norms.

Unit-5: To come up with a vision statement and evolve a comprehensive urban structure plan for the proposed site addressing the site & context, culture and lifestyle, ecology and environmental issues, scales and density, services and infrastructure.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

Students 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:

- Comprehensive report of documentation, studies and analysis done by students in groups not more than four each.
- Design portfolio-1 showing theorisation and articulation of design problem, design decision process, structure plan & design strategies done by students in groups not more than four each.
- Design Portfolio-2 showing design demonstration by an individual student for a part of from the structure plan.

OUTCOME:

Students enabled to conceive urban extensions/ development on green-field sites preferably for live and real urban conditions, thereby understanding client dynamics as well as tangible deliverables.

RECOMMENDED READINGS:

Lynch, K., Hack, G., (1984). *Site Planning*. Cambridge, Mass: MIT Press.

McHarg, I.L., (1969). *Design with Nature*. New York: the Natural History Press.

Correa, C., (2000). *Housing & Urbanization*. New York: Thames and Hudson.

Lang, J., (2005). *Urban Design: A typology of Procedures and Products*. Architectural Press.

SUBJECT TITLE: ELECTIVE-II:				
Subject Code: 2019UD202				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	2	Sessional	100	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

To develop comprehensive understanding of urban design by studying it from various Interdisciplinary Design and Planning fields.

COURSE CONTENT:

The content can be defined by the institute based on its ideology, line of thought, context & availability of expert faculty to conduct this elective. Suggested topics for elective (but not specific) are:

- Imagining Cities in Visual Arts/ Performing Arts/ Literature/ Cinema
 - Urban Aesthetics,
 - Landscape Urbanism,
 - Art and Science of Conservation,
 - Environmental Planning,
 - Future Cities,
 - G.I.S. and other softwares,
 - Computer Aided Urban Design, etc.
- (Or, any other topic that falls under this category)*

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

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

OUTCOME:

Students exposed to the various aspects & concepts in relation with urban development under above-mentioned streams.

RECOMMENDED READINGS:

All books/ Journals/ magazines / unpublished/ published thesis/ research related to the topic of elective offered.

SUBJECT TITLE:				
URBAN DESIGN THEORIES AND CRITICISM				
Subject Code: 2019UD203				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	2	Sessional	200	
Studio Periods per week	2	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	4	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	4	Total Marks	200	

COURSE OBJECTIVES:

This is in continuation to the history of urban form and space studied in the first semester, 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 CONTENT:

Unit-1: A critical understanding of changing attitudes towards urbanism and urban spaces.

Unit-2: A critical examination of current trends in contemporary urban design attitudes in Indian context.

SUBMISSION REQUIREMENT FOR 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 shall include:

- a. Comprehensive Analytical Report based on seminar topic with appropriate case references and theories produced individually.
- b. Power point presentation of the seminar topics.

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.

RECOMMENDED READINGS:

Kostof, S., (1992). *The City Assembled*. London: Thames and Hudson Ltd.

Kostof, S., (1991). *The City Shaped*. London: Thames and Hudson Ltd.

Lang, J., (2005). *Urban Design: A typology of Procedures and Products*. Architectural Press.

Morris, A. E. J., (1994). *History of Urban Form before the Industrial Revolution*. London: Routledge

Lynch, K., (1981). *A Theory of Good City Form*. Cambridge, Mass: MIT Press.

Bacon, E. N., (1974). *Design of cities*. New York: Viking Press.

Broadbent, G., (1995). *Emerging Concepts in Urban Space Design*. Taylor & Francis.

SUBJECT TITLE: RESEARCH I				
Subject Code: 2019UD204				
Teaching Scheme		Examination Scheme	Marks	Duration
Theory Periods per week	2	Sessional	Nil	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	30	
		End-semester Examination	70	150 min
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

To introduce methods and process of research, in order to understand the significance of the same with reference to urban design and to develop skills of conducting and communicating research.

COURSE CONTENT:

Unit-1: Introduction to the need of research in Urban Design & the process of formulating a research project. Introduction to the design of research and its three essentials- ontology, epistemology & methodology.

Unit-2: Introduction to types of research, their advantages and disadvantages and their applications.

Unit-3: Introduction to research methodologies used in the realm of Urban Design and Urban Studies;

Unit-4: Methods of data collection and data analysis, etc.

Unit-5: Introduction to technical writing.

Unit-6: Introduction to cyber security and laws related to the same including Intellectual Property Rights. Introduction to software for checking plagiarism.

OUTCOME:

Students exposed to the need of research in Urban Design, essentials of any research and various research methodologies used in Urban Design along with developing the skill of technical writing.

RECOMMENDED READINGS:

- Creswell, J. W. (2003) *Research Design: Qualitative, quantitative and mixed methods approaches*, 2nd Ed., Thousand Oaks: Sage.
- De Vaus, D. A. (2003) *Surveys in Social Research*, Jaipur: Rawat Publications.
- Groat, L. & Wang, D. (2002) *Architectural Research Methods*, NY: John Wiley and Sons Inc.
- Kothari, C.R. (2005) *Research Methodology: Methods and Techniques*, New Delhi: [SEP]Wishwa Prakashan.
- Sanoff, H. (1977) *Methods of Architectural Programming*, Dowden Hutchinson and Ross, Inc. [SEP]Vol. 29, Community Development Series.
- Sanoff, H. (1991) *Visual research methods in design*, USA: Van Nostrand Reinhold.
- Michelson, William. (1982) *Behavioural Methods in Environmental Design*. Stroudsburg, Pennsylvania; Dowden, Hutchinson and Ross, Inc, 1982.
- Nachmias, C.F. & Nachmias, D. (1996) *Research Methods in Social Sciences*. Great Britain: St. Martin's Press Inc. Book
- Babbie, E. (1983) *The Practice of Social research*. Third edition. Belmont: Wadsworth Publishing Co. book

SUBJECT TITLE: PLANNING TOOLS FOR URBAN DESIGN				
Subject Code: 2019UD205				
Teaching Scheme		Examination Scheme	Marks	Duration
Theory Periods per week	2	Sessional	Nil	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	3	In-semester Examination	30	
		End-semester Examination	70	150 min
Total Credits	3	Total Marks	100	

COURSE OBJECTIVES:

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 reference case study to be used as an example to understand planning processes and its impact on the development and growth of the City. The subject to have a focus on housing policies.

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.

Unit-1: Concepts and theories of planning and their applications as Master Plans, Development Plans, Structure Plans etc. Planning terms and their definitions

Unit-2: Concepts of Zonal Plans, Area Development Plans, Development Schemes, Urban Renewal, Redevelopment, City Development Plans, Planned Unit Development etc.

Unit-3: Concepts of land use, zoning regulations, mixed use development, Special Economic Zones

Unit-4: Planning surveys and sampling, evaluation of planning requirements; Planning standards and models

Unit-5: Overview of Legal and statutory aspects of Urban & Regional Planning, Town Planning Acts. Land acquisition Act and process, Land Pooling and other schemes related to green field projects, Transfer of Development Rights

Unit-6: Public participation in planning process

OUTCOME:

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

RECOMMENDED READINGS:

Various City and Regional Planning Acts, Policies in India and abroad responding to the contemporary settlement concerns.

SUBJECT TITLE: URBAN SYSTEMS				
Subject Code: 2019UD206				
Teaching Scheme		Examination Scheme	Marks	
Theory Periods per week	1	Sessional	100	
Studio Periods per week	1	Viva/Oral	Nil	
Total Contact Periods (60 min period) per week	2	In-semester Examination	Nil	
		End-semester Examination	Nil	
Total Credits	2	Total Marks	100	

COURSE OBJECTIVES:

The course is as an introduction to the infrastructure needs of an urban environment and fundamental concepts that cater to such needs. It is an introduction to the issues related to traffic & transportation in cities and various planning tools & mechanisms to cater to the same.

COURSE CONTENT:

Unit-1: Urban Infrastructure

- Concepts of urban infrastructure, social and physical infrastructure. Urban form, size and implications on services. Layout of urban area, siting of services and land-use and efficiency. Basics of service network - Water supply, sewerage/drainage, energy, communication and waste management.
- Urban Social infrastructure; qualitative and quantitative techniques of assessing requirements, planning amenities and institutions.
- Financing of infrastructure needs of city; national and international agencies involved in infrastructure provisions.

Unit-2: Urban Transportation

- Introduction: Scope of urban transport planning, interdependency of land use and traffic system, traffic system approach to urban transportation.
- Stages in Urban Transportation: Trip generation, trip production, trip distribution, modal split and trip assignment.
- 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.
- Land Use Transport models: Lowry model, Garin-Lowry Model, applications in India.
- Public Transportation modes: Systems in India, problems and prospects, present practices in urban transportation. Metro, mono, and high capacity buses. System selection.
- 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.

SUBMISSION REQUIREMENT FOR SESSIONAL WORK:

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

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.

RECOMMENDED READINGS:

Kadiyali L.R. (1987). *Traffic Engineering and Transportation Planning*, Khanna Publication, Delhi.
Dimitriou H.T. (1992). *Urban Transport Planning and Developmental Approach*, Routledge, London.
Bruton M. J. (1970). *An Introduction to Transportation Planning*, Hutchinson, London.
Black John, (1981). *Urban Transport Planning and Design*, Crown Helm Ltd, London.
CPHEERI Manual on Water Supply and Sewerage, New Delhi