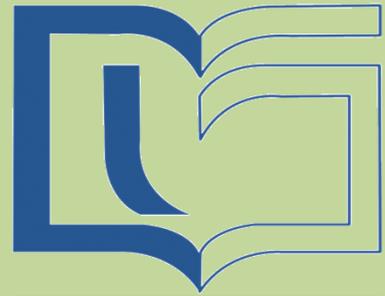


Ministry of Science Research and Technology



DANESHPAJOOHAN PISHRO
Higher Education Institute

2018

Urban Development Engineering – B.A.



DANESHPAJOOHAN PISHRO HIGHER EDUCATION INSTITUTE

- **COURSE CHART**
- **SYLLABUS**
- **SEMESTER CHART**

Urban Engineering Undergraduate Course Chart

General Courses						
Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite	Simultaneous
61-11-004	Islamic Thoughts-I	2	2	0	-----	-----
61-11-011	Islamic Thoughts-II	2	2	0	Islamic Thoughts-I	-----
61-11-003	Rite of Life (Applied Ethics)	2	2	0	-----	-----
61-11-012	Islamic Revolution of Iran	2	2	0	-----	-----
61-11-014	Analytical History of Islam	2	2	0	-----	-----
61-15-001	Persian Language	3	3	0	-----	-----
61-15-002	English Language	3	3	0	-----	-----
61-15-005	Physical Education	1	0.5	0.5	-----	-----
61-15-011	Exercise-I	1	0	1	Physical Education	-----
61-15-007	Family and Population Knowledge	2	2	0	-----	-----
61-11-008	Introduction to Constitution	2	2	0	-----	-----
61-11-013	The Holy Quran Exegesis	2	2	0	-----	-----
Total Credits		22	Note1: Only one course between 'Islamic Revolution of Iran' and 'Introduction to Constitution' shall be taken.			

Science Courses						
Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite	Simultaneous
1472015	Principles of Urbanology	2	2	0	-----	-----
1472016	Perception and Presentation of Urban Environment	2	2	0	-----	-----
1472017	Architectural Presentation	3	2	1	-----	-----
1411012	Mathematics	2	2	0	-----	-----
5122035	Physics	2	2	0	-----	-----
1472008	Differential Equations	2	2	0	Mathematics	-----
1472018	Geometry and Perspective	3	2	1	-----	-----
1472019	Elementary Design	3	2	1	-----	-----
1472033	Advanced Design	3	1	2	Elementary Design	-----
1472034	Principles of Geographical Information System (GIS)	2	1	1	-----	-----
1472035	Surveying Applications in Urban Development	3	1	2	(after passing 25 credits)	-----
1472014	English for Urban Eng.	2	2	0	English Language	-----
1455001	Urban Sociology	2	2	0	-----	-----
1455002	Urban Geography	2	2	0	-----	-----
1455003	Urban Economics	2	2	0	-----	-----
1472005	Statistics in Urbanism	2	2	0	-----	-----
Total Credits		37				

Urban Engineering Courses						
Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite	Simultaneous
1472023	World History of Cities and City planning	2	2	0	-----	-----
1472036	History of Iranian-Islamic Cities	2	2	0	World History of Cities and City planning	-----
1472037	Understanding and Analyzing Urban Spaces	3	2	1	-----	-----
1472038	Principles and Methods of Urban Planning	3	2	1	Urban Geography	-----
1472039	Principles and Methods of Urban Design	3	2	1	Advanced Design	-----
1472045	Regional Planning	2	2	0	Principles and Methods of urban planning	-----
1472050	Planning of Historic Districts	3	2	1	Principles and Methods of Urban Planning, Principles and Methods of Urban Design, Understanding and Analyzing Urban Spaces	-----
1472028	Quantitative Methods in Urbanism	2	2	0	Statistics in Urbanism	-----
1472029	Research Methods in Urbanism	3	2	1	Statistics in Urbanism	-----
1472051	Urban Transportation Planning	2	2	0	-----	-----
1472052	Urban transportation Design	2	2	0	-----	-----
1472053	Urban Studio-I	5	1	4	Advanced Design	-----
1472054	Urban Studio-II	5	1	4	Urban Studio-I, Principles and Methods of Urban Planning, Principles and Methods of Urban Design	-----
1472042	Housing Policies	2	2	0	-----	-----
1472072	Urban Infrastructures and Installations	3	2	1	-----	-----
1472073	Urban Studio-III	5	1	4	Urban Studio-II, Urban Infrastructures and Installations, Urban Transportation Planning	-----
1472074	Urban Studio-IV	5	1	4	Urban Studio-III, Understanding and Analyzing Urban Spaces, Planning of Historic Districts	-----
1472075	Urban Studio-V	5	1	4	Urban Studio-IV, Urban Transportation Planning, Housing Policies	-----
1472076	Final Project	6	2	4	Urban Studio-V	-----
Total Credits		63				

Elective Courses (not complete)						
Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite	Simultaneous
1472077	Culture, Art and Iranian-Islamic Identity	2	2	0	-----	-----
1472078	Principles of Architecture and Building Engineering	2	2	0	-----	-----

1472079	Computer Graphics in Urbanism	2	2	0	-----
1472057	Urban Laws and Regulations	2	2	0	-----
1472058	Computer Applications in Urbanism	2	2	0	-----
1472080	Urban Management	2	2	0	-----
1472061	Seminars on Urban Issues	2	2	0	-----
1472067	Ecology and Environmental Planning and Design	2	2	0	-----
1472086	Environmental Psychology	2	2	0	-----
Total Credits		--			

Total Credits (All Courses)	140
------------------------------------	-----

Principles of Urbanology

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472015	Principles of Urbanology	2	2	0	-----

The aim of this course is to become familiar with city features and different viewpoints to explain the urbanization process in human societies and what is the urbanization culture and its relation with city form and symbols. On the other hand, understanding the effective factors on urban form and function is another main purpose of this course.

Perception and Presentation of Urban Environment

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472016	Perception and Presentation of Urban Environment	2	2	0	-----

This course aims to provide an introduction to the essential subjects of Reading and Perceiving of Urban Environment, and also Expressing and Communicating meanings through a man-made environment. These subjects play important roles in understanding and then designing rational, purposeful, desirable and meaningful urban spaces.

Architectural Presentation

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472017	Architectural Presentation	3	2	1	-----

The aim of this course is to develop the ability of expression in a compatible manner with academic subjects and with an architectural concentration; including freehand drawing, contour drawing, analytical drawing, and professional techniques of shading and rendering.

Mathematics

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1411012	Mathematics	2	2	0	-----

Limits and Continuity; Differentiation; Curve Sketching; Integration; Methods and Applications of Integration; Continuous Random Variables; Multivariable Calculus.

Physics

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
5122035	Physics	2	2	0	-----

This course provides fundamentals of General Physics.

Differential Equations

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472008	Differential Equations	2	2	0	Mathematics

Introduction to Differential Equations; First Order Differential Equations; Second Order Linear Equations; Higher Order Linear Equations; Series Solutions of Second Order Linear Equations; The Laplace Transform; Systems of First Order Linear Equations.

Geometry and Perspective

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472018	Geometry and Perspective	3	2	1	-----

The main goal of this course is to explain the importance, and to present an understanding of 3D compositions, and also to develop the skill to express Three-Dimensionally.

Elementary design

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472019	Elementary Design	3	2	1	-----

The main goal of this course is to enter the visual world, and to understand the role of visual perception in understanding and expressing the physical environment of the city. Based on these understandings and necessary practices it is expected to gain a broader set of information about how to create and perceive visual signals, specially in the field of Architecture and Urbanism.

Advanced Design

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472033	Advanced Design	3	1	2	Elementary Design

This course aims to develop visual expression creativity, and understanding and analyzing shapes, with emphasis on presenting thoughts and ideas in the form of picture. Identifying visual elements, organizing, and understanding the parts of the composition in designing man-made environments are also goals of this course.

Principles of Geographical Information System (GIS)

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472034	Principles of Geographical Information System (GIS)	2	1	1	-----

This course provides an overview of Geographic Information System (GIS) concepts and components. Both theoretical and applied realms of GIS are emphasized in this course. Topics include spatial (location) and attributes (description of features), base maps, spatial data manipulation and analysis.

Surveying Applications in Urban Development

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472035	Surveying Applications in Urban	3	1	2	(after passing 25 credits)

Development				
-------------	--	--	--	--

This course provides an introduction to the fundamentals of Surveying as the foundation of Urban Studios.

English for Urban Development Eng.

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472014	English for Urban Development Eng.	2	2	0	English Language

To teach words, terms, and selected texts from common sources in Urban Engineering, in order to develop students' knowledge and enable them to use scientific and technical Urban Engineering references in English.

Urban Sociology

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1455001	Urban Sociology	2	2	0	-----

This course is intended to introduce graduate students to a set of core writings in the field of urban sociology. Topics include the changing nature of community, social inequality, political power, socio-spatial change, technological change, and the relationship between the built environment and human behavior. We examine the key theoretical paradigms that have constituted the field since its founding, assess how and why they have changed over time, and discuss the implications of these paradigmatic shifts for urban scholarship, social policy and the planning practice.

Urban Geography

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1455002	Urban Geography	2	2	0	-----

Introduction: What is Urban Geography?; Urban Space: Land Use in Cities, Models of City Structure; Retailing and Commercial Strips; The Culture of the City; Urban Planning, Politics, and Economic Development; Urban Design; The Future of the City? (Re) Thinking Urban Space.

Urban Economics

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1455003	Urban Economics	2	2	0	-----

The economics of cities, especially in housing, labor, and transportation. Topics include rent and wage determination; the location decisions of households and firms, quality of life amenities, agglomeration economies, and optimal city size; economics and policy of housing, transportation, local government, land use, discrimination, segregation, and crime. Takes historical and contemporary views, applying theory and empirical methods.

Statistics in Urbanism

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472005	Statistics in Urbanism	2	2	0	-----

Basic notions of statistics applicable to Urban Engineering problems; Moment generating functions; Random samples and sampling distributions; Parameter estimation; Hypothesis testing; Nonparametric tests; Simple and multiple regressions.

World History of Cities and City planning

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472023	World History of Cities and City planning	2	2	0	-----

Historical forming and evolution of urbanization culture in different periods of human history is the main subject of this course. Historical recognition of urbanization culture reveals the factors behind the status quo and represents the future trend of its subsequent developments. The main aims of this course are:

- Recognition of natural, social, economic and culture factors effected on cities and city impact on social, political and culture of society
- Understanding the proper methods for leading and control of city development in present and future

History of Iranian-Islamic Cities

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472036	History of Iranian-Islamic Cities	2	2	0	World History of Cities and City planning

Historical cognition is the basic factor to recognize the current state of the city. It helps to predict the future changing of the city. The main purposes of this course are:

- How cities are shaped in geographic and time bases
- Studying the effects of different factors in phenomenon of the city and understanding the methods of human encounter with them.

Understanding and analyzing urban spaces

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472037	Understanding and Analyzing Urban Spaces	3	2	1	-----

The main goal of this course is to identify features, aspects and effective parameters of the qualities of an open urban space, in order to help students better understand and plan urban environments.

Principles and Methods of Urban Planning

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472038	Principles and Methods of Urban Planning	3	2	1	Urban Geography

This course provides students with an introduction to fundamentals and methods of producing plans, urban standards, evaluating plans and operational methods of plans in practice, and also provides an introduction to technical, human, managerial and regulatory limitations of functionalizing and operating plans.

Regional Planning

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472045	Regional Planning	2	2	0	Principles and Methods of urban planning

This course provides students with an introduction to concepts and fundamentals of Regional Planning, the evolution of Regional Planning in Iran and some other countries around the world, and different types and contents of regional plans in Iran.

Planning Urban Texture of Historical and Deprived Areas

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472050	Planning Urban Texture of Historical and Deprived Areas	3	2	1	Principles and Methods of Urban Planning, Principles and Methods of Urban Design, Understanding and Analyzing Urban Spaces

After completing the course, students should be able to:

- Analyze what makes a place historic and explain why its cultural context is important
- Define historic place management and explain the role heritage values play in historic place management
- Correctly use technical terminology employed in historic place management
- Identify and discuss the different levels of government involved in heritage resources management and the conservation of historic places

Quantitative Methods in Urbanism

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472028	Quantitative Methods in Urbanism	2	2	0	Statistics in Urbanism

This course aims to provide students with introductions to:

- 1) The evolution of using Quantitative Models in Urban Engineering.
- 2) Applied Quantitative Models in Urban Engineering.

Research Methods in Urbanism

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472029	Research Methods in Urbanism	3	2	1	Statistics in Urbanism

This class introduces a range of data types relevant to urban studies, how to obtain data, and some of the most common techniques for data analysis. The class also addresses the types of questions that can be answered by quantitative and/or qualitative methods, and the suitability of different methods to particular urban studies questions.

Urban Transportation Planning

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472051	Urban Transportation Planning	2	2	0	-----

This course is focused on the transportation's interrelationship with the urban environment, methodologies for planning multi-modal transportation systems, and developing feasible alternatives. Emphasis is placed on developing insight into the transportation phenomena and the planning process as well as solving specific problems of limited scope.

Urban Transportation Design

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472052	Urban Transportation Design	2	2	0	-----

This course provides students with an introduction to processes of urban transportation design, including street networks and intersections, and public electrical transportations.

Urban Studio-I

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472053	Urban Studio-I	5	1	4	Advanced Design

The aim of this course is to strengthen students' abilities to recognize and read the city in visual ways. They should present their findings in drawing, sketching, imaging and format. Students would learn the presentation ways, using of graphic tools and ... in different urban scales.

Urban Studio-II

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472054	Urban Studio-II	5	1	4	Urban Studio-I, Principles and Methods of Urban Planning, Principles and Methods of Urban Design

Practical usage of preliminary planning skills in a city context is the main aim of this course. The topic is focused on the landuse and urban realms. Analyzing the landuse issues and how to deal with urban spaces in city zones scale are the main parts of the course. Students will learn how to intervene in determined area through the feasibility of landuse changing.

Housing Policies

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472042	Housing Policies	2	2	0	-----

This course will provide students with the ability to identify and analyze phenomena in cities and urbanized areas related to a socially fundamental demand for adequate and affordable shelter that ensures individual well-being and social and community stability and sustainability.

Urban Infrastructures and Installations

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472072	Urban Infrastructures and Installations	3	2	1	-----

The aim of the course is to provide basic knowledge on the functions, dynamics and interactions of urban infrastructure systems. After fulfilling the course requirements students should be able to:

- Demonstrate a general understanding of the planning and management of urban infrastructure systems.
- Describe the dynamics within and between urban infrastructure systems, and their relation to the built environment and economic development.
- Provide a critical analysis of the consequences of ongoing developments and future needs on urban infrastructure provision.
- Assess the qualities of infrastructure systems in terms of vulnerability, sustainability, equity and efficiency.

Urban Studio-III

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472073	Urban Studio-III	5	1	4	Urban Studio-II, Urban Infrastructures and Installations, Urban Transportation Planning

Practicing lessons learned from Urban Transportation Design, and enhancing the practical abilities of students in fields related with Urban Transportation Design are the main goals of this course.

Urban Studio-IV

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472074	Urban Studio-IV	5	1	4	Urban Studio-III, Understanding and Analyzing Urban Spaces, Planning Urban Texture of Historical and Deprived Areas

Usage of knowledge related with fundamentals and planning methods, presenting designing ideas, designing of different concepts and making decision in a process are the main targets of this course. The proper scale for this task is a neighborhood which students learn how to intervene in districts and present their strategies in both planning and designing formats.

Urban Studio-V

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472075	Urban Studio-V	5	1	4	Urban Studio-IV, Urban Transportation Planning, Housing Policies

The main target is learning the intervention methods in the development of new cities. Students learn to design the pattern of a neighborhood unit with all necessary requirements in a related structure to whole city.

Final Project

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472076	Final Project	6	2	4	Urban Studio-V

Teaching students how to do research, gather information, categorize data, and present results based on data.

Culture, Art and Iranian-Islamic Identity

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472077	Culture, Art and Iranian-Islamic Identity	2	2	0	----

Familiar with effect of Iranian-Islamic art on culture and identity of Iranian people is the main aim of this course. In addition, the role of Iranian art and culture in evolution of Iranian-Islamic identity in different periods of history is another important part of this course.

Principles of Architecture and Building Engineering

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472078	Principles of Architecture and Building Engineering	2	2	0	----

Introducing students to the basics of Architecture; Recognizing realms and spaces; Recognizing the hierarchy and typology of buildings in terms of climate, social, economic, and physical conditions; Recognizing the structures and their functionality.

Computer Graphics in Urbanism

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472079	Computer Graphics in Urbanism	2	2	0	----

The main purpose of this course is to use the computer as an important tool to present the results of projects graphically.

Urban Laws and Regulations

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472057	Urban Laws and Regulations	2	2	0	-----

This course provides introduction to the past and present laws and regulations of Iran, Urban and Regional rules of Iran, urban rules terminology, Genesis process, and imposing and executing urban regulations.

Computer Applications in Urbanism

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472058	Computer Applications in Urbanism	2	2	0	-----

This course provides an introduction to computer as a tool in Urban Engineering and Planning.

Urban Management

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472080	Urban Management	2	2	0	-----

This course provides students with an introduction to the concepts of Urban Management, the role of Urban Management in conducting Urban Development, and the experiences of other countries in Urban Management.

Seminars on Urban Issues

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472061	Seminars on Urban Issues	2	2	0	-----

Familiar with general and specialized issues of urban planning and study the solutions mentioned in national and international conferences in order to resolve urban problems are the aims of this course.

Ecology and Environmental Planning and Design

Course Code	Course Title	Credits	Theoretical	Practical	Pre-requisite
1472067	Ecology and Environmental Planning and Design	2	2	0	-----

This course provides an ecological perspective to the environmental challenges and opportunities related to urban development adopting an inter-disciplinary approach. The aims of this course are:

- To introduce the concepts and theories of ecology in urban context.

- To explain the principles and strategies for bio-diversity conservation and management for sustainable urban development and the associated conflicts.
 - To impart the knowledge on evaluating the environmental and social impacts of urban development and introduce strategies dealing with global challenges of climate change in cities.
-

Principles and Methods of Urban Design

This course is presented in both theory and practice and aims to provide students with an introduction to the process and different steps of preparing Urban Designs, and the required methods and techniques for each of these steps.

Environmental Psychology

This course provides an overview of theory, research, and methods in environmental psychology, examining the interrelationship between humans and the physical environment (both natural and constructed). Topics will include:

Environmental cognition and behavior, dysfunctional and restorative environments, dynamics of place, urban stress, environmental personalization, environmental risk perception, psychological impact of ecological crises, values and attitudes towards nature, and conservation psychology.

Total	Guide															Semester	
	Urban Development Engineering –B.A. Semester Chart																
19	Islamic Thoughts-I		Urban Geography		Mathematics		Architectural Presentation		Physics		Elementary Design		Geometry and Perspective		Principles of Urbanology		1
	G	No prerequisite	S	No prerequisite	S	No prerequisite	S	No prerequisite	S	No prerequisite	S	No prerequisite	S	No prerequisite	S	No prerequisite	
	2		2		2		3		2		3		3		2		
18	Physical Education		English Language		Differential Equations		Principles and Methods of Urban Planning		Urban Sociology		Advanced Design		Computer Applications in Urbanism		Statistics in Urbanism		2
	G	No prerequisite	G	No prerequisite	S	Pre: Mathematics	UE	Pre: Urban Geography	S	No prerequisite	S	Pre: Elementary design	E	No prerequisite	S	No prerequisite	
	1		3		2		3		2		3		2		2		
20	Exercise-I		Principles of Geographical Information System (GIS)		Quantitative Methods in Urbanism		Principles and Methods of Urban Design		Surveying Applications in Urban Development		Urban Studio-I		Computer Graphics in Urbanism		Perception and Presentation of Urban Environment		3
	G	Pre: Physical Education	S	No prerequisite	٢٢	Pre: Statistics in Urbanism	UE	Pre: Advanced Design	S	Spend at least 25 units	UE	Pre: Advanced Design	E	No prerequisite	S	No prerequisite	
	1		2		2		3		3		5		2		2		
19			Analytical History of Islam		Principles of Architecture and Building Engineering		Understanding and Analyzing Urban Spaces		Urban Transportation Planning		Urban Studio-II		World History of Cities and City planning		Urban Infrastructures and Installations		4
			G	No prerequisite	E	No prerequisite	UE	No prerequisite	UE	Pre: Quantitative Methods in Urbanism	UE	Pre: Urban Studio I-Principles and Methods of urban Design & planning	UE	No prerequisite	UE	No prerequisite	
			2		2		3		2		5		2		3		

18		Islamic Revolution of Iran		Environmental Psychology		Planning of Historic Districts		Urban transportation Design		Urban Studio-III		History of Iranian-Islamic Cities		Urban Economics		5
		G	No prerequisite	E	No prerequisite	UE	Pre: Principles and Methods of urban Design & planning- Understanding and analyzing urban spaces	UE	No prerequisite	UE	Pre: Urban Infrastructures Need both: Urban transportation Design	UE	Pre: World History of Cities and City planning	S	No prerequisite	
	2	2		3		2		5		2		2		2		
16			Rite of Life (Applied Ethics)		Persian Language		Culture, Art and Iranian-Islamic Identity		Urban Studio-IV		Ecology and Environmental Planning and Design		Housing Policies		6	
			G	No prerequisite	G	No prerequisite	E	No prerequisite	UE	Pre: Understanding and analyzing urban spaces- Planning of Historic Fabrics	E	No prerequisite	UE	No prerequisite		
		2	3		2		5		2		2		2			
16			Islamic Thoughts-II		English for Urban Eng.		Research Methods in Urbanism		Urban Studio-V		Urban Laws and Regulations		Regional Planning		7	
			G	Islamic Thoughts-I	S	No prerequisite	UE	Pre: Statistics in Urbanism	UE	Pre: Urban Studio (IV)- Urban Transportation Planning- Housing Policies	E	No prerequisite	UE	Pre: Principles and Methods of urban planning		
		2	2		3		5		2		2		2			
14				Family and Population Knowledge		The Holy Quran Exegesis		Final Project		Urban Management		Seminars on Urban Issues		8		
				G	No prerequisite	G	No prerequisite	UE	Pre: Urban Studio (V)	E	No prerequisite	E	No prerequisite			
			2	2		6		2		2		2				