

UMMARIZED DESCRIPTION OF MAJOR COURSES
BACHELOR OF URBANISM ENGINEERING

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Worksh on		
01	Introduction to Urban	2	32	32	-	-	Introducing the first concepts of urban and urbanism.	B
02	Comprehension of Urban Environment	2	32	16	16	-	Knowing the effect of environment on urban area and learn the method of comparing the image of city and morphology and of course the way of presenting the image of city on paper.	B
03	Urban Society	2	32	32	-	-	Understanding with important definitions of socialism and getting familiar with social theories.	B
04	Urban Geography	2	32	32	-	-	Getting familiar with geography and the effects of geography in urban locating.	B

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Workshop		
05	Architectural Expression I	2	32	32	-	-	Learn how to skis from nature and architectural complexes.	B
06	Architectural Expression II	2	32	32	-	-	Learn the advance method of free hand and skis and also presenting plans and views and comprehension of advance perspective.	B
07	Math I	2	32	32	-	-	Learning general mathematics.	B
08	Math II	2	32	32	-	-	Learning the advanced mathematics.	B
09	Fundamentals of Design I	3	48	48	-	-	Learning how to enhance the visual understanding of city and present it in 2D and 3D method.	B
10	Fundamentals of Design II	3	48	48	-	-	Learn how to enhance the creativity of urban planner and also the way of knowing and analyzing the physical part of city.	B

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Workshop		
11	Computer Application in Urbanism	2	16	16	-	-	Learning 2D and 3D AutoCad.	O
12	Ecology and Environment Programming and design	2	32	32	-	-	Introducing the basic concepts of ecology and sustainable development.	O
13	History of City and Urbanism in the World	2	32	32	-	-	Learn the history of urbanism and urban culture in the world.	B
14	History of City and Urbanism in Iran	2	32	32	-	-	Learn the history of urbanism and urban culture in Iran.	B
15	Urban Economy	2	32	32	-	-	Understanding the basics theory of economy and urban economy	B
16	Surveying Application in Urbanism	4	64	32	32	-	Getting familiar with surveying and how to use it in urbanism as a pre course for urban workshops.	B
17	Research Method in Urbanism	3	48	32	16	-	Introducing the research methods and how to use informations for a science research.	p
18	Fundamentals of Architecture and Civil Engineering	2	32	16	16	-	Become familiar with architectural element and analyzing architectural buildings and also introducing the understanding the judicial laws of architecture.	O

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Workshop		
19	Computer Graphics in Urbanism	2	32	16	16	-	Learning Photoshop and Office software.	O
20	Specialized English	2	32	32	-	-	Learn the specialized English of urbanism in order to understanding the English books and essay.	B
21	Principles and Methods of Urban Planning	4	64	32	32	-	Learn the methods of urban planning, getting familiar with urban different plans and also how to make them.	P
22	Urban Planning and Design I	5	208	16	-	192	Introducing urban structure, transportation systems and also getting proper understanding of urban and its parts. Also students should work on specific area of city.	P
23	Urban Planning and Design II	5	208	16	-	192	In this course, students learn about and work on different parts of a small town and analyzing and finding the issues, and at the end, they should find a right solution for city.	P
24	Urban Planning and Design III	5	208	16	-	192	The theme of this course is urban designing in the scale of neighborhood. Student should choose an area in big city and have a comprehensive analyzing and at the end present a new neighborhood are.	P
25	Urban Planning and Design V	5	208	16	-	192	Continue what had learned in urban planning and designing III in advance method and also in wider area.	S

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Workshop		
26	Urban Planning and Design IV	5	208	16	-	192	Presents a schematic plan of a small town in a free land according to site analysis.	S
27	Urban Issus Seminar	2	32	32	-	-	Introducing with general issues of urbanism and give solutions for them.	O
28	Volume Geometry and perspective	2	32	32	-	-	Understanding and get familiar with 3D shapes and learn how to present them.	B
29	Introduction to Urban Space	4	64	32	32	-	Introducing the urban spaces and their qualities and also their effect in urban structure.	P
30	GIS	2	32	16	16	-	Learn GIS software and how to use it in urbanism.	B

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Urban Workshop		
31	Quantitative Models in Urbanism	2	32	3	-	-	Getting familiar with the history of quantitative models and learn how to use them for planning of city.	P
32	Housing	2	32	32	-	-	Introducing different dimension of housing and housing patterns and the process of housing planning.	S
33	Urban management	2	32	32	-	-	Understanding the concepts of urban management and the role of urban management in urban development.	O
34	Urban Design	4	64	64	-	-	Learn the methods of urban designing and also how to design an access network and landscape.	S
35	Pre Math	2	32	32	-	-	Learning general math.	B
36	Pre Physics	2	32	32	-	-	Learning general concepts of physics.	B
37	Differential Equation	2	32	32	-	-	Learn the Differential Equation.	B

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
38	Urban Transportation Planning	2	32	32	-	-	Getting familiar with the process of transportation programing and public transportation by emphasizing on the four levels of: producing, attracting, distribution and separating.	S
39	Regional Planning	2	32	32	-	-	Getting familiar with the concepts and principles of regional planning and getting to know the this process in Iran and world.	S
40	Urban Transportation Network Design	2	32	32	-	-	Getting familiar with the process of transportation designing and also learn the technics of designing different types of streets and highways.	S
41	Urban Installation and Infrastructure	2	48	48	-	-	Introducing the Urban Installation and Infrastructure and also the method of planning of them for city.	S
42	Landscape Design	2	32	32	-	-	Introducing the urban landscape in the history context and different types of designing it in city.	S
43	Historical and Deteriorated Urban Areas	2	32	32	-	-	Become familiar with various forms of historical areas and intervention in this areas.	S
44	Urban statics	2	32	32	-	-	Introducing the basic definitions of statics and how to use them in urban planning.	B
45	Final Project	6	240	-	-	240	Students shall choose a topic and have a research on his topic in 6 months.	S

Abbreviations: B=Basic, P=Principle, S=Specialized, O= Optional

Remarks: In University Educational System during each academic semester for each Theoretical Credit 16 hours, Practical 32 hours and Workshop Operations 48 hours of educational is offered.

GENERAL COURSES:

	Course Title	Credit	Hour				Description	Type* of Course
			Total	Theory	Practical	Design Workshop		
1	General Persian	3	48	48	-	-		
2	General English	3	48	48	-	-		
3	Physical Education I	2	32	16	16	-		
4	Physical Education II	2	32	16	16	-		
5	Imam Khomeini's Will	1	16	16	-	-		
6	Life's Rules and Applied Ethic	2	32	32	-	-		
7	Family Planning and Population	2	32	32	-	-		
8	History of Imamat	2	32	32	-	-		
9	Thematic Interpretation of Quran	2	32	32	-	-		
10	Analytical History of Islam	2	32	32	-	-		
11	Islamic Thought I	2	32	32	-	-		
12	Islamic Thought II	2	32	32	-	-		
13	Islamic Revolution of Iran	2	32	32	-	-		
14	Introduction of Quran Reading	1	16	16	-	-		