



SUMMARIZED DESCRIPTION OF MAJOR COURSES
BACHELOR OF URBAN PLANNING AND DESIGN

Course Description Art University of Isfahan				
Course Title	Credits	Duration (hours)	Description	Type of Course¹
Introduction to Urban ology	2	32	Introducing the first concepts of urban and urbanism	B
Elementary Drawing	3	64	Learning how to enhance creativity, rendering and introducing basic methods about illustrating thoughts on paper	B
Mathematics	2	32	Learning advanced mathematics	B
Urban Economics	2	32	Understanding the basics theory of economy and urban economics	B
Application of Computer in Urban Development	2	48	Learning soft wares like AutoCAD, Expert Choice, SPSS	O
Geometry of Volumes & Perspective	3	64	Describing and practicing different techniques of drawing perspective: 1point, 2point, 3point perspectives, isometric perspective and drawing from different points	B
Differential Equations	2	32	Learning the Differential Equation	B
Architectural Expression	3	64	Learning how to sketch out of nature and buildings	B
Advanced Drawing	3	80	Learning the advanced methods of sketching, rendering, recognition of using colors and comprehension of the advance perspective	B
Urban Sociology	2	32	Understanding important definitions of socialism and getting familiar with social theories	B
Urban Geography	2	32	Getting familiar with the geography and the effects of geography in urban areas	B

¹ Abbreviations: B=Basic, S=Specialized, O= Optional





Computer Graphics in Urban Development	2	48	Learning Photoshop and Office software	O
	2	32	Learning about the art of urbanism and urban culture in the Iranian-Islamic cities	O
Environmental Psychology	2	32	Learning different behaviors happening in urban spaces and various factors affecting those areas	O
Physics	2	32	Learning Physics	B
Principles of Geographic Information Systems (GIS)	2	48	Learning GIS software and how to use it in urbanism	B
Application of Surveying in Urban Development	3	80	Getting familiar with surveying and how to use it in urbanism as a pre-course for urban studio courses	B
Statistics in Urban development	2	32	Introducing the basic definitions of statics and how to use them in urban planning	B
Fundamentals and Methods of Urban Planning	3	64	Learning the methods of urban planning, getting familiar with different urban plans and also how to provide them	S
Urban Studio 1	5	144	A main course about ways of planning a city with introducing urban structures, transportation systems and also getting a proper understanding of a city and its parts. Also, students should work in a specific area of the city through a master plan	S
History of City and Urban Development in the World	2	32	Learning the history of urbanism and urban culture in the world	S
Quantitative Models in Urban Development	2	32	Getting familiar with the models and methods of calculating population, economics and other important issues in urban planning	S
Urban Studio 2	5	144	In this course, students learn about and work on different parts of a small town with analyzing and finding the issues with SWOT tables, and at the end, they should define prospects and goals for their designs with suggesting some solutions	S
Fundamentals and Methods of Urban Design	3	64	Learning the methods, definitions, and techniques of urban designing	S





Installation and Urban Infrastructure	3	64	Introducing the different urban facilities and Infrastructures and also the method of city planning	S
Fundamentals of Intra-City Transportation Network Design	2	32	Getting familiar with the process of transportation design and also learning the methods of designing different types of streets and highways	S
Urban Spaces Study and Analysis	3	64	Introducing the urban spaces and their qualities and also their effect in the urban structure	S
Historical and Worn-Out Texture Planning	3	64	Getting familiar with various forms of historical areas, old textures, and how to intervene in these areas	S
Urban Management	2	32	Understanding the concepts of urban management, the role of urban management in urban development in other countries	O
History of Iranian-Islamic Cities	2	32	Learning the history of urbanism and cities in Iran	S
Urban Studio 3	5	144	The theme of this course is the urban design on the scale of the neighborhoods. Students should choose an area in a big city and have a comprehensive analyzing and at the end present a new neighborhood	S
English for Specific Purpose	2	32	Learning the specialized English of urbanism and how to use language skills for communicating in an academic space	B
Fundamentals of Intra-City Transportation Network Planning	2	32	Getting familiar with different kinds of transportation especially public transportation, different traffics and how to calculate them	S
Housing	2	32	Introducing the models of housing in Iran and other countries and methods of anticipating it for future growth.	S
Fundamentals of Construction & Architecture Engineering	2	32	Getting familiar with architectural elements and analyzing architectural buildings and also understanding of the judicial laws of architecture	O
Evaluation of Effects of Development on Environment	2	32	Getting familiar with impact of development on environment and environmental Impact Assessment (EIA) as a tool for identifying, reviewing and comparing the effects of different urban development options for urban development	O
Urban Studio 4	5	144	Learning how to provide a detailed plan with first, recognizing and analyzing a	S



			selected region and then, definition goals and suggestions for the case study	
Methodology of Research in Urban Development	3	64	Introducing the research methods and how to use the information for different kind of researches, thesis, and articles	S
Regional Planning	2	32	Getting familiar with the concepts and principles of regional planning, zoning and getting to know the process in Iran and world	S
Urban Issues Seminar	2	32	Getting familiar with general and specialized issues of the city and also to review and make suggestions and presenting solutions that have been improved in seminars and conferences at local, national and international levels	S
Urban Studio 5	5	144	The course is about site planning and detailed planning. Students should work on an empty site and specify transportation network, land use, mass pattern, land division and densities	S
Urban Environment Perception & Explanation	2	32	Getting familiar with methods of reading and perceiving urban spaces and expressing desired urban areas	B
Final Project (Bachelor's thesis)	6	160	Students should choose a topic about one of the urban planning issues and have a research on the topic in 6 months	S

Remarks:

In educational system of the university, during each semester, 16 education hours will be presented for each Theoretical Credits, 32 hours for Practical & 48 hours for Workshop Operations.





GENERAL COURSES

Course Description Art University of Isfahan				
Name: Anahita Arshadi				
Course Title	Credits	Duration (hours)	Description	Type of Course
Quran Interpretation	2	32		
Population and Family Knowledge	2	32		
Physical Education 1	1	16		
Sport 1 (Physical Education 2)	1	15		
Islamic Thought 1 (Origin & Resurrection)	2	32		
Islamic Thought 2 (Nabovat-va-Emamat)	2	32		
English Language	3	48		
Culture and Civilization of Islam and Iran	2	32		
Islamic Ethics (Fundamentals and concepts)	2	32		
Persian Language	3	48		
History of Imamate	2	32		
Islamic Revolution of Iran	2	32		