

BSc in Urban Engineering – Curriculum Chart

Term 1

Courses	Credits	Code	Prerequisites	Type
Fundamentals of Urban Engineering	۲			B
Statistics in Urban Engineering	۲			B
Fundamentals of Urban Economics	۲			R
Fundamentals of Urban Sociology	۲			R
English Language	۳			G
General Persian	۳			G
Student Life Skills	۲			G
Theology 1	۲			G
Total Credits	۱۸			

Term 2

Courses	Credits	Code	Prerequisites	Type
Geometry of Volumes and Perspectives	۳			B
Application of Computer in Urban Engineering	۲			B
Visual Expression in Architecture	۳			B
Mathematics	۲			B
Fundamentals of Urban Geography	۲			R
History of Urban Planning in the World	۲			R
Fundamentals of Housing Planning	۲			R
Contribution in Urban Planning	۲			R
Physical Education 1	۱			G
Total Credits	۱۹			

Term 3

Courses	Credits	Code	Prerequisites	Type
Differential Equations	۲		Mathematics	B
Visual Expression in Urban Engineering	۳		Visual Expression in Architecture	R
Research Methodology in Urban Engineering	۳		-	R
Fundamentals and Methods of Urban Planning	۳		-	R
History of Islamic Iranian Cities	۲		History of Urban Planning in the World	R
Spatial Information Systems	۳		Application of Computer in Urban Engineering	R
Theology 2	۲		-	G
Total Credits	۱۸			

Term 4

Courses	Credits	Code	Prerequisites	Type
Application of Mapping in Urban Engineering	۳		at least 25 credits required	R
Quantitative Models in Urban Engineering	۲		Statistics in Urban Engineering	R
Fundamentals and Methods of Urban Design	۳		Visual Expression in Urban Engineering	R
Introduction to Urban Infrastructures and Facilities	۲		-	R
Knowledge and Analysis Workshop	۵		Visual Expression in Urban Engineering	R
Fundamentals of Urban Management	۲		-	R
Theology 3	۲		-	G
Total Credits	۱۹			

Term 5

Courses	Credits	Code	Prerequisites	Type
Physics	۲		Knowledge and Analysis Workshop - Fundamentals and Methods of Urban Planning	B
Urban Planning Workshop	۵		-	R
Knowledge and Analysis of Urban Spaces	۳		-	R
Fundamentals of Urban Transportation	۳		-	R
New Cities and Towns	۲		-	E
Urban Experiences	۲		-	E
Theology 4	۲		-	G
Total Credits	۱۹			

Term 6

Courses	Credits	Code	Prerequisites	Type
English for Students of Urban Engineering	۲		-	B
Urban Management of Worn out and Historical Textures	۳		-	R
Urban Design Workshop	۵		Knowledge and Analysis Workshop - Fundamentals and Methods of Urban Design	R
Urban Laws and Regulations	۲		Fundamentals of Urban Sociology	R
Urban Information System Application and Design	۲		-	E
Graphics and Presentation Skills	۲		-	E
Theology 5	۲		-	G
Physical Education 2	۱		Physical Education 1	G
Total Credits	۱۹			

Term 7

Courses	Credits	Code	Prerequisites	Type
Fundamentals of Regional Planning	۲		-	R
Land Preparation Workshop	۵		Urban Design Workshop - Urban Planning Workshop	R
Contemporary Urban Development of Iran	۲		-	R
Seminar on Urban Issues	۲		-	E
Psychology and Urban Environment	۲		-	E
Theology 6	۲		-	G
Total Credits	۱۵			

Term 8

Courses	Credits	Code	Prerequisites	Type
Final Project	۵		Urban Planning Workshop - Urban Design Workshop	P-
Natural Disasters and Human Settlements	۲		-	E
Landscaping	۲		-	E
Fundamentals of Architectural and Building Engineering	۲		-	E
Fundamentals of Entrepreneurship in Urban Development	۲		-	E
Total Credits	۱۳			

Total Credits of General Courses: 22

Total Credits of Basic Courses: 20

Total Credits of Required Courses: 73

Total Credits of Elective Courses: 20

Total Credits of Project Courses: 5

Total Credits: 140

Course Types: G=General

B=Basic

R=Required

P=Project

E=Elective