

Study Plan of the Program of Civil Engineering
Study plan 1438

Course ID	Course Title	Credit Hours	Contact Hours	Pre-requisite
First Year: First Term				
11030116	English (1)	3	18	
11010101	Islamic Culture 1 (Islamic Morals)	2	2	
32000200	Introduction to Engineering	2	2	
32000300	Calculus (1)	3	3	
31022210	General Chemistry	4	3	
32040222	Engineering Drawing (1)	2		
11010113	Voluntary Service 1	0	-	
First Year: Second Term				
11030216	English (2)	3	18	English (1)
31031201	General Physics (1)	4	0	-
32000303	Calculus (2)	3	3	Calculus (1)
11020107	The Holy Quran (Recitation Correction)	2	2	
11010111	Islamic Culture 2 (Islamic Civilization)	2	2	
32030231	Architectural Drawing	1	۲	
11010123	Voluntary Service 2	0	-	
Second Year: First Term				
32050301	Fundamentals of Electrical Engineering	3	۴	General Physics (1)
32021201	Computer Programming (1)	3	2	-
32000202	Engineering Math. (1)	3	3	Calculus (2)
32000100	Special English Language	2	2	English (2)
32000206	Engineering Economy	2	2	
11020204	Health Culture	1	1	
32040102	Basics of Engineering Workshops	۱	۲	
Second Year: Second Term				
32000301	Engineering Math. 2	3	3	Engineering Math. (1)
32021202	Computer Programming (2)	3	۴	Computer Programming (1)
32011202	Statics	3	3	-
32000204	Engineering Statistics	3	3	Calculus (2)
32000404	Engineering Management	2	2	Engineering Economy
32000101	Research & Article Writing Skills	2	2	-
Third Year: First Term				

32000302	Engineering Math. 3	3	Ψ	Engineering Math. 2
32011301	Structural Analysis (1)	3	Ψ	Statics
32011303	Surveying (1)	3	Ξ	Engineering Math. 1
32011305	Strength of Materials	3	Ξ	Statics
32011307	Dynamics	3	Ψ	Statics
32011309	Engineering Drawing (2)	3	Ξ	Engineering Drawing (1)
Third Year: Second Term				
32041409	Numerical Analysis	3	3	Engineering Math. (2) + Comp. Prog. (2)
32011302	Structural Analysis 2	3	3	Structural Analysis (1)
32011304	Surveying 2	3	Ξ	Surveying (1)
32011306	Concrete Technology	3	Ξ	Strength of Materials
32011308	Fluid Mechanics	3	Ξ	Dynamic
Ψ...Ξ...	Summer Training 1	2	-	
Fourth Year: First Term				
32011401	Reinforced Concrete 1	3	3	Structural Analysis (1) + Strength of Materials
32011415	Traffic & Transportation Engineering	3	3	Engineering Statistics
32011405	Soil Mechanics 1	3	4	Strength of Materials
32011407	Steel Structures 1	3	3	Structural Analysis (1) + Strength of Materials
32011409	Hydraulic	3	4	Fluid Mechanics
Fourth Year: Second Term				
32011402	Reinforced Concrete 2	3	3	Reinforced Concrete 1
32011412	Geometric Design of Roads	2	2	Traffic & Transportation Engineering
32011406	Soil Mechanics 2	3	4	Soil Mechanics 1
32011408	Steel Structures 2	3	3	Steel Structure 1
32011417	Water Supply Engineering	3	3	Hydraulic
32011416	Construction Engineering	2	2	
32000500	Summer Training (2)	2	-	Summer Training (1)
Fifth Year: First Term				
32011512	Wastewater Engineering	3	3	Hydraulic
32011503	Foundation Engineering	3	3	Soil Mechanics 2
32011513	Structural Design of Pavement	3	4	Traffic & Trans. Eng. + Soil Mechanics 1
32011511	Graduation Project-part (1)	1	1	Passing 123 Credit Hours
	Elective Course (1)	3	3	
	Elective Course (2)	3	3	

Fifth Year: Second Term				
32011504	Construction Management	2	2	Engineering Management
32011508	Contracts, Specifications & Quantities	2	2	Engineering Management
32011522	Graduation Project-part (2)	3	3	Graduation Project-part (1)
32011505	Hydrology & Water Resources Engineering	3	3	Fluid Mechanics
	Elective Course (3)	3	3	
	Elective Course (4)	3	3	
Electives				
32012517	Design of R. C. Bridges	3	3	Reinforced Concrete 2
32012505	Design of R.C. Water Tanks	3	3	Reinforced Concrete 2
32012509	Computer Application in Structural engineering	3	3	Reinforced Concrete 1
32012506	Advance Structural Analysis	3	3	Structural Analysis 2
32012513	High Rise Buildings	3	3	Structural Analysis 2
32012520	Structural Dynamics	3	3	Structural Analysis 2
32012514	Advance Reinforced Concrete Design	3	3	Reinforced Concrete 2
32012522	Selected Subjects in Structures	3	3	Structural Analysis 2
32012502	Advanced Concrete Technology	3	3	Concrete Technology
32012523	Prestressed Concrete	3	3	Reinforced Concrete 2
32012524	Rehabilitation of Concrete Structures	3	3	Concrete Technology
32012525	Design of Steel Bridges	3	3	Steel Structures (2)
32013503	Transpiration Planning	3	3	Traffic & Transportation Engineering
32013515	Airports Design	3	3	Traffic & Transportation Engineering
32013506	Computer Application in Transportation	3	3	Geometric Design of Roads
32013511	Railway Engineering	3	3	Geometric Design of Roads
32013517	GIS Applications	3	3	Surveying (2)
32013505	GPS Applications	3	3	Surveying (2)
32012510	Advanced Soil Mechanics	3	3	Soil Mechanics (2)
32013520	Soil Improvement.	3	3	Soil Mechanics 2
32013521	Selected Subjects in Transportation and Surveying	3	3	Traffic & Transportation Engineering + surveying (2)
32013512	Remote Sensing	3	3	Surveying 2

32014519	Irrigation and Drainage Engineering	3	3	Hydraulics
32014502	Ground Water Engineering	3	3	Hydraulics
32014503	Wastewater Disposal	3	3	Wastewater Engineering
32014506	Computer Application in Water & Environmental Eng.	3	3	Hydraulics
32014522	Municipal Solid Waste Disposal and Treatment	3	3	Wastewater Engineering
32014523	Hydraulics Structures	3	3	Hydraulics
32014512	Selected Subjects in Water and Environment	3	3	Hydraulics
32014513	Harbor Engineering	3	3	Hydraulics
32014514	Water Desalination	3	3	Hydraulics