

1st Year Fall Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x1306	Mathematics I	3 + 2	4	6
1311x1302	Physics I	3 + 2	4	6
1311x1305	General Chemistry	2 + 2	3	5
1311x1009	English I	2 + 2	3	4
1311x1003	Turkish Language I	2 + 0	2	2
1311x1100	Introduction to Civil Engineering	2 + 0	2	3
1311x1309	Technical Drawing	1 + 2	2	4
	Total		20	30

1st Year Spring Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x2307	Mathematics II	3 + 2	4	6
1311x2303	Physics II	3 + 2	4	6
1311x2010	English II	2 + 2	3	4
1311x2004	Turkish Language II	2 + 0	2	2
1311x2124	Introduction to Computer and Programming	3 + 0	3	4
1311x2101	Statics	2 + 2	3	5
1311x2116	Engineering Geology	1 + 2	2	3
	Total		21	30

2nd Year Fall Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x3105	Materials Science	2 + 2	3	4
1311x3107	Numerical Analysis	2 + 2	3	4
1311x3103	Strength of Materials I	4 + 0	4	6
1311x3104	Dynamics	2 + 2	3	5
1311x3102	Mathematics III	3 + 2	4	6
1311x3001	Atatürk's Principles and History of Turkish Revolution I	2 + 0	2	2
1311x3110	Surveying	1 + 2	2	3
	Total		21	30

2nd Year Spring Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x4111	Building Materials	2 + 2	3	5
1311x4109	Fluid Mechanics	3 + 2	4	6
1311x4108	Strength of Materials II	4 + 0	4	6
1311x4107	Mathematics IV	3 + 2	4	6
1311x4002	Atatürk's Principles and History of Turkish Revolution II	2 + 0	2	2
1311x4114	Statistics	2 + 2	3	5
	Total		20	30

3rd Year Fall Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x5113	Structural Analysis I	4 + 0	4	5
1311x5112	Hydromechanics	3 + 2	4	5
1311x5115	Soil Mechanics	2 + 2	3	4
1311x5308	Engineering Economics	3 + 0	3	4
1311x5120	Highways	2 + 2	3	4
1311x58**	Technical Elective I	2 + 2	3	4
1311x5997	Training I (Professional Experience I)	0 + 0	0	4
Total			20	30

3rd Year Spring Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x6117	Structural Analysis II	4 + 0	4	5
1311x6118	Reinforced Concrete I	4 + 0	4	5
1311x6119	Steel Structures	2 + 2	3	5
1311x6123	Foundation Engineering	2 + 2	3	5
1311x6124	Water Supply	3 + 0	3	5
1311x68**	Technical Elective II	3 + 0	3	5
Total			20	30

4th Year Fall Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7122	Reinforced Concrete II	4 + 0	4	5
1311x77**	Social Elective I	3 + 0	3	3
1311x75**	Technical Elective III	2 + 2	3	4
1311x76**	Technical Elective V	3 + 0	3	4
1311x78**	Technical Elective VII	3 + 0	3	4
1311x79**	Engineering Analysis	5 + 0	5	6
1311x7999	Training II (Professional Experience II)	0 + 0	0	4
Total			21	30

4th Year Spring Semester

Course Code	Course Name	(T + A)	Credit	ECTS
1311x87**	Social Elective II	3 + 0	3	3
1311x85**	Technical Elective IV	2 + 2	3	5
1311x86**	Technical Elective VI	3 + 0	3	5
1311x88**	Technical Elective VIII	3 + 0	3	5
1311x89**	Engineering Design	4 + 0	4	6
1311x89**	Graduation Project	0 + 2	1	6
Total			17	30

Social Elective I

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7700	Introduction to Business Administration	3 + 0	3	3
1311x7701	Occupational Health and Safety	3 + 0	3	3

Social Elective II

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8700	Management and Organization	3 + 0	3	3
1311x8701	Building And Labour Law	3 + 0	3	3
1311x8702	Entrepreneurship	3 + 0	3	3

Technical Elective I

Course Code	Course Name	(T + A)	Credit	ECTS
1311x5800	Engineering Hydrology	2 + 2	3	4
1311x5801	Earth Works	2 + 2	3	4
1311x5802	Building Physics and Insulation	2 + 2	3	4

Technical Elective II

Course Code	Course Name	(T + A)	Credit	ECTS
1311x6802	Concrete Technology	3 + 0	3	5
1311x6804	Experimental Soil Mechanics	3 + 0	3	5
1311x6805	Computer Programming and Numerical Applications	3 + 0	3	5
1311x6806	Highway Design Safety	3 + 0	3	5

Technical Elective III

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7503	Highway Pavements	2 + 2	3	4
1311x7503	Waste Water Disposal	2 + 2	3	4
1311x7506	Site Investigation and Geotechnical Evaluation	2 + 2	3	4

Technical Elective IV

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8502	Railways	2 + 2	3	5
1311x8504	Fresh and Hardened Concrete Properties	2 + 2	3	5
1311x8505	Introduction to Earthquake Engineering	2 + 2	3	5

Technical Elective V

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7601	Traffic Engineering	3 + 0	3	4
1311x7602	Introduction to Structural Dynamics	3 + 0	3	4
1311x7603	Construction Management	3 + 0	3	4

Technical Elective VI

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8603	Retaining Structures	3 + 0	3	5
1311x8604	Energy Methods	3 + 0	3	5
1311x8605	Concrete and Concrete Technology	3 + 0	3	5

Technical Elective VII

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7800	Admixtures for Concrete	3 + 0	3	4
1311x7801	Computer Applications in Structural Engineering	3 + 0	3	4
1311x7803	Introduction to Geotechnical Earthquake Engineering	3 + 0	3	4

Technical Elective VIII

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8801	Construction Site Management	3 + 0	3	5
1311x8802	Hydrological Modeling	3 + 0	3	5
1311x8803	Introduction to Ground Improvement Methods	3 + 0	3	5
1311x8804	Hydraulic Structures	3 + 0	3	5

Engineering Analysis

Course Code	Course Name	(T + A)	Credit	ECTS
1311x7900	Engineering Analysis in Structural Statics	5 + 0	5	6
1311x7902	Analysis and Design of Reinforced Concrete Structures	5 + 0	5	6
1311x7903	Stochastic Modeling Applications in Hydrology	5 + 0	5	6
1311x7904	Traffic Accident Analysis	5 + 0	5	6
1311x7905	Computer Analysis in Mechanics	5 + 0	5	6
1311x7906	Engineering Analysis in Transportation	5 + 0	5	6
1311x7907	Engineering Analysis in Highway Pavements	5 + 0	5	6
1311x7908	Engineering Analysis in Materials of Construction	5 + 0	5	6
1311x7909	Engineering Analysis in Water Supply	5 + 0	5	6
1311x7910	Engineering Analysis in Construction Management	5 + 0	5	6
1311x7911	Engineering Analysis in Geotechnics	5 + 0	5	6
1311x7912	Engineering Analysis in Structural Mechanics	5 + 0	5	6
1311x7913	Engineering Analysis in Structural Engineering	5 + 0	5	6
1311x7914	Engineering Analysis in Building Materials	5 + 0	5	6
1311x7915	Engineering Analysis in Foundation Engineering	5 + 0	5	6
1311x7916	Engineering Analysis in Soil Mechanics	5 + 0	5	6

Engineering Design

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8901	Design of Reinforced Concrete Structures	4 + 0	4	6
1311x8902	Hydrological System Design	4 + 0	4	6
1311x8903	Highway Design	4 + 0	4	6
1311x8904	Computer Applications in Engineering Design	4 + 0	4	6
1311x8906	Railway Design	4 + 0	4	6
1311x8907	Design of Highway Pavements	4 + 0	4	6
1311x8907	Dam Planning and Design	4 + 0	4	6
1311x8909	Materials of Construction Applications in Engineering Design	4 + 0	4	6
1311x8910	Design of Construction Cost	4 + 0	4	6
1311x8911	Geotechnical Design	4 + 0	4	6
1311x8912	Design in Structural Mechanics	4 + 0	4	6
1311x8913	Structural Analysis and Design	4 + 0	4	6
1311x8914	Soil Mechanics Design	4 + 0	4	6
1311x8915	Design in Construction Materials	4 + 0	4	6
1311x8916	Design in Structural Engineering	4 + 0	4	6
1311x8917	Design in Foundation Engineering	4 + 0	4	6

Graduation Project

Course Code	Course Name	(T + A)	Credit	ECTS
1311x8951	Graduation Project in Structural Analysis	0 + 2	1	6
1311x8952	Graduation Project in Concrete and Reinforced Concrete	0 + 2	1	6
1311x8953	Graduation Project in Water Resources Engineering	0 + 2	1	6
1311x8954	Graduation Project in Traffic-Highway Engineering	0 + 2	1	6
1311x8955	Graduation Project in Engineering Mechanics	0 + 2	1	6
1311x8956	Graduation Project in Railway-Transportation Engineering	0 + 2	1	6
1311x8957	Graduation Project in Highway Pavements	0 + 2	1	6
1311x8958	Graduation Project in Water Structures and Water Supply	0 + 2	1	6
1311x8959	Graduation Project in Materials of Construction	0 + 2	1	6
1311x8960	Graduation Project in Construction Cost	0 + 2	1	6
1311x8961	Graduation Project in Geotechnical Engineering	0 + 2	1	6
1311x8962	Graduation Project in Structural Mechanics	0 + 2	1	6
1311x8963	Graduation Project in Structural Analysis and Design	0 + 2	1	6
1311x8964	Graduation Project in Soil Mechanics	0 + 2	1	6
1311x8966	Graduation Project in Materials of Construction	0 + 2	1	6
1311x8967	Graduation Project in Structural Engineering	0 + 2	1	6
1311x8968	Graduation Project in Foundation Engineering	0 + 2	1	6