

DEPARTMENT OF CONSTRUCTION TECHNOLOGY ASSOCIATE DEGREE PROGRAM					
COURSE DESCRIPTIONS					
Course Code	Course Name	Core / Elective	Prerequisite	Credit	ECTS Credits
İNT 1303	Structural Materials and Materials Laboratory	Core		(3+1) 3.5	5
Basic information about materials, strength properties of materials, metals, plastics, materials of ceramic origin, bituminous materials, wood, glass					
İNT 1305	Applied Mechanics and Statics	Core		(3+1) 3.5	5
Footing sizes and unit systems, statics, fluid mechanics, mechanical experiments					
İNT 1307	Construction Management	Core		(2+0) 2	3
Technical specifications, appraisal, building control and inspection system, quality assurance, professional standards					
MAT 1300	Mathematics	Core		(6+0) 6	8
Numbers, algebra, equations and inequalities, functions, logarithm, trigonometry, geometry, statistics					
TBT 1300	Computer	Core		(1+1) 1.5	3
Standard computer hardware, operating systems, computer networks and settings, using Internet, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, and Microsoft Outlook					
ATA 1003	Principles of Atatürk and History of the Turkish Revolution	Core		(4+0) 4	4
The course content of the YÖK (Council of Higher Education of Turkey) is going to be applied.					
YDİ 1001	Foreign Language I (English)	Core		(2+0) 2	2
The course content of the YÖK (Council of Higher Education of Turkey) is going to be applied.					
İNT 1302	Structural Drawing I	Core		(2+2) 3	3
CAD systems, basic information about CAD systems, coordinate systems, drawing geometry					
İNT 1304	Structural Materials and Concrete Laboratory	Core		(3+1) 3.5	5
Cement, aggregate, concrete					
İNT 1306	Structural Analysis	Core		(2+1) 2.5	5
Trellis girder, continuous girder, frame, arch					
İNT 1308	Surveying	Core		(2+2) 3	5
Basic principles, linear measurement, angular measurement, height measurement, implantation, determination of contour lines, polygon, appraisal (cartography)					
İNT 1310	Office and Site Organization	Core		(2+1) 2.5	4
Project preparation, application procedures, building site organization, building site planning programming and control, work rules and insurance system, work safety					
İNT 1512	Professional Applications	Core		(2+1) 2.5	3

Workshop applications using masonrt, metal and wood materials					
MKV 1300	Strength of Materials	Core		(2+0) 2	2
Basic information, concepts of external force and internal force stress, load and load types, bearer, panel point, bearing elements, forcing types that occur in the section of the bearing element under the influence of external forces, simple beam, cantilever beam, the concept of slump and elastic curve					
TDL 1003	Turkish Language	Core		(4+0) 4	4
The course content of the YÖK (Council of Higher Education of Turkey) is going to be applied.					
YDİ 1014	Foreign Language II (English)	Core		(2+0) 2	2
The course content of the YÖK (Council of Higher Education of Turkey) is going to be applied.					
İNT 2401	Soil Mechanics I	Core		(3+1) 3.5	4
Geology, physical properties of soils, classification of soils, impermeability of soil and water currents on the ground					
İNT 2403	Structural Drawing II	Core		(2+2) 3	4
Preparing an architectural project of a simple building with CAD system, architectural detail drawing with CAD system, detail drawing of reinforced concrete elements with CAD system, drawig projects prepared with CAD					
İNT 2405	Reinforced Concrete I	Core		(3+1) 3.5	4
Definition and properties of reinforced concrete, bearing system and reinforced concrete building elements (floor, beam, column)					
İNT 2407	Hydrolics and Hydrology	Core		(2+1) 2.5	4
Hydrology, static of fluids, hydraulic pipe flows, free surface currents					
İNT 2411	Steel Structures I	Core		(2+1) 2.5	4
Basic informations, load and loading conditions in steel structures, joining elements in steel elements, tension bars, compression bars					
İNT 2509	Highway Construction	Core		(3+0) 3	3
Construction stages of highway construction, basic accounts					
EDÖ 2400	Practical Traning Programme (6 weeks)	Core		(0+40) 20	8
In order to graduate from the program, student have to complete a 6 weeks industry internship in an enterprise deemed appropriate by the Construction Technology Program.					
İNT 2402	Soil Mechanics II	Core		(3+1) 3.5	3
Compression stress distribution, shear strength on soils, lateral soil pressures, bearing capacity of soils, settlement					
İNT 2404	Reinforced Concrete II	Core		(2+1) 2.5	2
Reinforced concrete curtain concretes, reinforced concrete foundations					
İNT 2406	Computer Aplications	Core		(3+1) 3.5	2
Ready programs such as sap and ide-cad					

İNT 2408	Construction Quantities and Estimates	Core		(3+1) 3.5	3
Unit prices, measurement and estimate preparation, price differences, transports, progress statement, final account, interim ve final acceptance					
İNT 2410	Steel Structures II	Core		(2+1) 2.5	3
Flexural member, steel roofs, sizing of steel structural members, detail drawings for steel structure					
İNT 2412	Design	Core		(3+1) 3.5	3
Collecting data on the chosen subject, system design, system analysis, data preparation and entry to required computer programs					
İNT 2426	Water Supply and Treatment	Core		(2+1) 2.5	2
Drinking water features, survey, waters compilation, transmission, purification, storage, distribution, waste water collection, treatment removal					
BE/DS 2300	Physical Education/Fine Arts	Elective		(0+2) 2	
The course content of the YÖK (Council of Higher Education of Turkey) is going to be applied.					
İNT 2414	Prefabricated Structures	Elective		(2+1) 2.5	
Steel prefabricated structures, wood prefabricated structures, reinforced concrete prefabricated structures					
İNT 2416	Construction Chemicals	Elective		(2+1) 2.5	3
Applications of chemicals in construction works, internal structure of chemicals, binding properties, construction chemicals standards					
İNT 2418	Structural Physics and Insulation	Elective		(2+1) 2.5	3
Effect of material selection on structural physics, water, heat, relevance of sound insulation to structural physics, effects of thermal effects on structural physics					
İNT 2420	Damage Assessment in Construction	Elective		(2+1) 2.5	
Survey, damage types of non-bearing elements in reinforced concrete constructions and damage status of the construction, repair and strengthening					
İNT 2424	Road Materials Laboratory	Elective		(2+1) 2.5	
Determination of the mechanical, physical and chemical properties of the basic and above-year materials (Marshall experiment)					
İNT 2422	Hydrolics and Hydrology Laboratory	Elective		(2+1) 2.5	
Necessary experiments to determine the flow properties that are effective in the dimensioning of hydraulic elements (flood regime, river regime transitions, piezometer measurements)					