



Construction Technology Program Course Contents

I. Semester

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
ATİ101	Atatürk's Principles and Revolution History-I	2	0	0	2	2	2	Compulsory
Concepts and Ottoman modernization. European developments, Industrial Revolution and French Revolution. New Ottomans, Constitutional Monarchy and Union and Progress Society. II. Constitutional Monarchy Period, Tripoli and Balkan Wars. Causes of World War I. World War I: Sharing the Ottoman Empire. National Struggle preparatory period. Congress. Sivas Congress, the last Ottoman Parliament and the National Pact. TBMM Period: Formation of fronts. Treaty of Lausanne.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ107	Structural Materials	3	0	0	4	3	3	Compulsory
Building materials, the definition and classification of sampling methods. Physical, mechanical and chemical properties of the methods for determining. Identify the components and properties of concrete. Metal and wood materials and specifications to determine. Wall components, flooring and roofing materials to determine. Classification of insulating materials. The classification of sound insulating materials. Classification of waterproofing materials. Fire classification of insulating materials.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ115	Mathematics-I	4	0	0	4	4	4	Compulsory
Clusters. numbers. Exponents, radicals, absolute value. First order equations with one unknown. First order equations with two unknowns. Geometric measurements, perimeter, area and volume calculations of geometric shapes. Polynomials and factorization. Ratio, proportion, percentage, mean and probability calculations. Quadratic equations. Trigonometry, trigonometric relations in non-right triangles, trigonometric functions and their graphs. Coordinate system, analytical plane and graphs. Matrices. Logarithm.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ117	Technical Drawing	1	2	0	3	2	3	Compulsory
Basic Principles of Technical Drawing. Scale drawing. Sizing. Geometric drawings. Projection of the plane. Projection of geometric objects. Intersection of planes. Perspective of simple parts. Basic appearance drawings. Full cross-sections and scanning drawings of parts.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ119	Mechanics and Statics	3	0	0	3	3	3	Compulsory
Units of Measurement. Scalar and Vector Quantities. Operations Forces Component and Composition. At one point moment. Bearing response.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ121	Professional Application	0	4	0	4	2	4	Compulsory
Concrete applications. Wall applications. Floor,wall covering and flashing. Soil applications. Building foundation applications. Laboratory work.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
TDİ101	Turkish Language-I	2	0	0	2	2	2	Compulsory
Definition of language. The relationship between nation and language. The relationship between language and culture. Family of languages, the place of Turkish language among other languages. Historical development of Turkish language. The current situation of Turkish language, its history and current examples, vernacular, accent, dialect. Definition of grammar and its sections, features of Turkish language. Phonetic, phonetic of Turkish, its features and classification of phonemes. Grammatical rules of Turkish. Punctuations. Word structure of Turkish and particles, derivational affix, inflexional suffix.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
YDİ101	Foreign Language-I	2	0	0	2	2	2	Compulsory
Greetings. Brainstorming about the mutual expectations. Ice breakers. To be. Possessive adjectives. Countries. Describing jobs. Simple present tense. Word order. WH questions. Expressing likes/dislikes. Foods and drinks. Ordering. Speaking about food from all over the World. Writing and speaking about free time activities. Making dialogues using frequency adverbs. Reading passage about basketball and vocabulary practice. Talking and writing about what people are doing. Using present progressive. Understanding the polite rules of talking on the phone and acting. Talking about past events using simple past tense. Was/were. Understand an article about past and present.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ109	Information Communication Technologies	2	1	0	3	3	3	Elective
General Concepts. Operating System and File Management. Google Mail and Calendar, Google Document Service (Docs) and Google Journal (Blog). MS Powerpoint - Basic Settings, Creating								

Presentations, Text, Images and Tables. MS Powerpoint- Graphics and Drawing Objects, Screen Show Effects, Slideshow and Output Preparation. MS Word- First Steps to Word Processor and Basic Operations. MS Word- Formatting (Text, Paragraph, Document). MS Word- Objects (Table, Image. Image, Graphic) and Printing. MS Excel- Introduction, Cells and Worksheets. MS Excel- Formatting, Formulas and Functions. MS Excel- Graphics, Page Setup and Preparation of Outputs.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ111	Environmental Protection	2	0	0	3	2	2	Elective

Introduction. Environmental protection concept. Legal development in nature and environmental protection, the role of administrations and non-governmental organizations. Environmental impacts of urbanization. Causes, effects and mechanisms of air pollution. Certain types of water and air pollutants and their ways of damaging the environment and/or human health. The greenhouse effect of the atmosphere. Global warming; Climate change. Soil pollution problem. Legal and environmental framework for waste management; problems associated with recycling and development. The use of fossil fuels, environmental discussions on nuclear power plants and the development of sustainable energy sources including hydropower, wind power and sea wave. Nature protection and conservation of natural resources. Development of sustainable energy sources including hydroelectric, wind, power and sea wave.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ113	Communication	2	0	0	3	2	2	Elective

Communication Description. Communication Process and Models Explaining the Communication Process. Communication Types. Culture and Communication- Interpersonal Communication. Mass Communication, Media, Media Literacy. Organizational Communication, Corporate Communication. Communication in Business Life, In-Group Communication. Communication in Social Life, Etiquette. Frame of Reference, Acquisition Codes, Stereotype. Conflict and Communication, Persuasive Communication. Elements Hinder Communication and Ways of Transcendence. Communication Accidents.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ123	Occupational Health and Safety	2	0	0	3	2	2	Elective

Occupational Health and safety overview. Security Culture. Occupational health and safety law No. 6331. Occupational accident and occupational illness. Risk Assessment. Fire. Emergency Plan and exercise. Emergency Plan and Risk Factors for Exercise Health and safety. Working with Screen tools-manual lifting-Health and safety signs. Occupational Safety in ship, Shipyard and Industry, Safety in indoor areas. Safety studies in welding and electricity. Safe Use Of Work Equipment, Working High. Case study.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ125	Building Information-I	3	0	0	3	3	3	Elective

Introduction of the course and information about the process. Analysing of building land. Implementation of the building to the ground. Foundations. Foundations- homework evaluation. Walls, chimneys, expansion joints. Floors, flooring types and materials, upholstery functions. Low floor and wet areas, floor coverings, wood floors, low floors and wet areas- homework evaluation. Floors. Ramps, elevators, stairs-assignment evaluation. Stairs.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ127	Masonry Buildings	1	2	0	3	2	3	Elective

Brick walls. Aerated concrete walls. Surface preparation for plastering. Placing the anos. Construction of Rough Surface. Locating and Making Plaster Corner Bead. Building Ceramic. Masonry wall and floor coverings. Apply joint filler. Whitewash and paint applications. Painting of metal surfaces Surface Staining of Wood and Varnish Applications. Demolition and clearing exercises in the workshop.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ129	Algorithm and Programming	1	2	0	3	2	3	Elective

Computer equipment. Computer networks. Computer programs. Data input output statements. Comparison and routing commands. Loops. Array variables. Subprograms. Algorithms. Flow charts. Writing a program.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ131	Physics	2	0	0	3	2	2	Elective

Vectors. Movement. Work and energy. Momentum. Newton's laws. Static and equilibrium.

## II. Semester

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
ATİ102	Atatürk's Principles and Revolution History-II	2	0	0	2	2	2	Compulsory

Political revolutions: Abolition of the Sultanate, Declaration of the Republic, Abolition of the Caliphate. Political parties and political events established in the period of Atatürk and represented in the Turkish Grand National Assembly. Legal reform and legal order. Revolutions in education. Revolutions in culture and social area. Revolutions in economic area. Turkish foreign policy in Atatürk period (1923-1930). Turkish foreign policy in Atatürk period (1930-1938). Principles of Atatürk and complementary principles. After Atatürk's Turkey.

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ102	Mathematics-II	3	1	0	4	4	4	Compulsory
Functions. Custom Defined Functions. Limit of Functions. Limit of Specially Defined Functions. Uncertainties at the Limit. Continuity in functions. The Concept of Derivative. Rules of Derivation. Derivative Applications. Integral. Trigonometric transformations in integral. Certain Integral Applications. Linear Algebra.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ108	Strength	2	0	0	2	2	2	Compulsory
To calculate the center of mass. To calculate moment of inertia. Pull the influence of cross-sectional analysis. To make section analysis of the influence of pressure. To make section analysis of the effect of cutting. To make the cross-sectional analysis of the effect of bending.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ116	Building Statics	3	0	0	3	3	3	Compulsory
Isostatic beams. Isostatic plane frames. Isostatic plane lattice systems. Plane systems with three hinges.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ118	Concrete Technology	2	0	0	2	2	2	Compulsory
Concrete components. Types of concrete. Concrete production. Concrete strength. Concrete mix calculations.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ120	Zoning Legislation	3	0	0	3	3	3	Compulsory
Planning and plan types. Zoning concept of urbanism and city plans. 10c and 18th applications in the Development Law No. 3194. Plan statements. Current maps. Applications. Appeal- Tawhid-Abandonment. 3030 type Zoning Regulation. Expropriation Law No. 2942. Development Law in Municipal Law No. 5393. Cadastral Plans, Development Plans, Environmental Plans. Disaster Structures.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ122	Concrete Applications	0	2	0	2	1	2	Compulsory
Fresh concrete tests. Hardened concrete tests.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ124	Computer Aided Drawing	0	2	0	2	1	2	Compulsory
Package software installation. CAD program commands. CAD program drawing settings, toolbars. Basic Computer Operations. Drawings. Check. Recent transactions. Delivery.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
STJ102	Internship	0	0	0	10	0	0	Compulsory
Recognize the work place, to learn about the work done. Learn the planning and applications of workplace workflow. Examine the business practices. Examine the business practices, participate in practice and studies are to report.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
TDİ102	Turkish Language II	2	0	0	2	2	2	Compulsory
Definition of language. The relationship between nation and language. The relationship between language and culture. Family of languages, the place of Turkish language among other languages. Historical development of Turkish language. The current situation of Turkish language, its history and current examples, vernacular, accent, dialect. Definition of grammar and its sections, features of Turkish language. Phonetic, phonetic of Turkish, its features and classification of phonemes. Grammatical rules of Turkish. Punctuations. Word structure of Turkish and particles, derivational affix, inflexional suffix.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
YDİ102	Foreign Language II	2	0	0	2	2	2	Compulsory
Talking about clothes. Using comparative adjectives. Making dialogues about shopping. Speaking activity about fashion. Describing appearances and personalities of people, Using "be like" and "look like". Speaking and writing activity about describing our friends. Talking about tourist sites. Using can/can't. Listening and comprehending a passage about city attractions. Talking about places around town. Using "There is" and "There are". Reading a text about favourite places around town and vocabulary gain. Talking about vacation activities. Using past tense. Reading text about describing a hotel. Talking about future plans. Using future tense. Listening activity about travel plans and follow-up activities. Reading text about travel activities.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ110	Occupational Drawing	1	2	0	3	2	3	Elective
Drawing and scanning signs and symbols used in plan, section, details and views. Dimensioning. Drawing details. Drawing floor plans. Drawing looks. Drawing a cross section. To make plan and detail drawing of Reinforced Concrete Elements.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ112	Professional Mathematics	3	0	0	3	3	3	Elective
Analytical and numerical solutions. Matrix and matrix operations. Error analysis. Equation systems and solutions of linear equation systems by numerical methods. Solution of linear equation systems by numerical methods. Curve fitting methods. Interpolation techniques. Geometric applications in polygons,								

angles, circle and circle. Geometric bodies. Coordinate systems. Basic trigonometry and trigonometric functions.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ114	First Aid	2	0	0	3	2	2	Elective
Definition of body, its important functions and first aid description. Principles of first aid. Diagnosis (Assessment of the casualty's condition). Methods of reporting the accident and seeking help. Respiratory and heart massage. Opening the Airway. Types of burns and first aid. Stop bleeding and protect it from external factors. First aid in frostbite. First aid for fractures. First aid measures in traffic accidents. Shock and coma. Providing communication and patient transportation and patient referral procedures.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ126	Community Service Practices	2	0	0	3	2	2	Elective
Introducing the content of the course, reviewing the concepts of society and related concepts. The importance of community service practices. Determining the current problems of the society, Discussing in which areas the community can work in this course. Preparing new projects to find solutions for the current problems of the society. Community service practices today: Public institutions and non-governmental organizations (NGOs). The importance of participating in scientific activities such as panels, conferences, congresses, symposiums as an audience, speaker or organizer. Volunteering in various projects within the framework of social responsibility. To gain basic knowledge and skills for the implementation of community service studies in schools. Students take part in a social project using their knowledge and knowledge. Project information: General information about reporting.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ128	Wooden Construction	1	2	0	3	2	3	Elective
Knowledge about the wood and wooden construction. Wooden construction systems. Wood construction materials. Wood construction joint materials. Calculation of wood construction loads. Calculation of wood construction dimensions. Preserve the wood construction against fire and air attacks.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ130	Building Information-II	2	0	0	3	2	2	Elective
Introducing of the course and information about process. Choppings: doors. Choppings: windows. Trip-workshop. Terrace roofs. Pitched roof. Matte surface structures. Covering space frame structures. Tensile and pneumatic blanket systems. Wet areas: kitchens, bathrooms. Fine works: coating and plaster. Fine works: search suspended ceiling and divider systems.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ132	Chemistry	2	0	0	3	2	2	Elective
Introduction and general information. Matter and Properties, Unit Systems, Meaningful Numbers. Atomic structure, Atomic models, Periodic table. Mol concept. Chemical Bondings. Determination of The Most Simple Formulas and Molecule Formulas of The Compounds. Chemical Naming of Chemical Compounds and Molecules. Chemical reactions. Solids. Liquids and State changes. gases. solutions. Acids and bases. introduction to electrochemistry.								

### III. Semester

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ203	Highway Construction	2	1	0	3	3	3	Compulsory
Transportation systems. Highway standards. Highway route. Horizontal curves. Vertical curves. Cross-sections and Development. Map and field observations. Fill and Cut jobs. Engineering structures. Route earthworks. Pavement construction materials. Asphalt Overlays. Reinforced pavements.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ205	Land Surveying	2	1	0	3	3	3	Compulsory
Techniques of land measurement. Levelment works. longitudinal sectioning. To draw longitudinal section. To draw width section. Plankote measure.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ209	Reinforced Concrete	4	0	0	4	4	4	Compulsory
Concrete and reinforced concrete. Behavior of reinforced concrete. Basic principles of Account for the Reinforced Concrete. Construction safety concept. Element under axial force. The Effect of Simple Bending Elements. Elements under Combined bending. The Effect of Cutting Element. Reinforced concrete plates and calculations.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ213	Building Installations	2	0	0	2	2	2	Compulsory
Waste water system and the materials used. Clean water system and the materials used. Structure materials used in electrical installations. Central heating system structure materials.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ215	Site Organization	3	0	0	3	3	3	Compulsory
Establishment of Construction Site. Business program. The Site Preparation Manufacturing. Production Teams. Application Studies. Excavation. Construction Site Books. Studies Office. Manufacturing Control. Preparation of merit. Provisional and Final Acceptance. Applications.								



Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ223	Computer Aided Design	0	3	0	3	2	3	Compulsory
Subject of Design. Installation Package Program. Running the program package. Data Log. Analysis Motivations. Program Outcomes.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ225	Soil Mechanics I	2	0	0	3	2	2	Compulsory
Introduction to Soil Mechanics. Soil Mechanics problems analysis. Index properties of soils. Classification of soils. Ground water. Permeability of soils. Water flows in the ground. Compaction (Compression). Applications.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ227	Obtaining and Transmitting of Water	3	0	0	3	3	3	Compulsory
Introduction. Water Resources. Water Resources Survey. Population Forecasting Methods. Water Requirement. Water Supply Methods. Water Transmission. Free Surface Transmission Lines. Pressure Transmission Lines. Storages. Network Infrastructures.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ219	Quality Management Systems	2	0	0	3	2	2	Elective
Introduction. Introduction to Quality Management. Historical development of total quality management. Factors of total quality management. Factors and results of total quality management. Change management and business culture. Total quality management and team work. Total quality management tools. Quality assurance system and certification. Continuous improvement. Project presentations.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ221	Business Management-I	3	0	0	3	3	2	Elective
Basic business concepts. Business responsibilities. Business objectives. Business types. Establishment of the business. Business establishment location and its importance. Establishment stages of the business. Planning in business. Quality Concept and Definition. Types of Quality. Total Quality Management and Definition.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ229	Physical Education	0	3	0	3	2	3	Elective
Basic concepts in physical education and sports. Physical education and sports in education and training, Physical education and sports goals. Philosophy and its relation to other sciences. The future of professions in physical education and sports. Basic principles of different physical education and sports approaches. Foundations of development and success in sports. Amateur sports. Political events at the Olympics and Olympics. Sports science and performance. Purpose and functions of movement education. The factors that set records in sports.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ231	Prefabricated Buildings	2	1	0	3	3	3	Elective
Understanding prefabricated elements. Needs of prefabricated systems. Prefabrication principles, materials and modular coordination. Examination of the behavior of prefabricated building elements. Large panel systems. Production of large panel elements. Prefabricated elements in roof, floor, column, beam and foundation formation. Reinforced concrete prefabricated carrier systems. Framework systems and their organizations. Curtain clad column systems. Lift hinged floor wall systems. Mixed systems and their organizations. System details and installation flaws.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ233	Professional English	2	0	0	3	2	2	Elective
Technical Terms for Construction Technician. Technical Writing in English. Translation of Technical Articles. Technical Report Writing Techniques in English. Letter Writing Techniques in English. Presentation Techniques. Classroom Applications.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ235	Project Reading	1	2	0	3	2	3	Elective
Zoning preparations and plan preparation studies. Type zoning plan regulations and definitions. Zoning status document and examination of data. TAKS, KAKS (EMSAL) applications. Architectural project application criteria and application processes. Examining and reading site plan data. Reading floor plans and data and criteria. Checking the conformity of sections and views to architectural criteria. Examine the reinforced concrete project sample. Reinforced concrete foundation plan application and reading data. Column application reinforcement and formwork plan reading and review. Foundation openings and reinforcement layout details. Examination and reading of beam openings and reinforcement details.								

#### IV. Semester

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
İNŞ202	Waste Water	2	0	0	3	2	2	Compulsory
To identify polluting sources. Make studies to give environmental awareness in society. The concept of waste water. The removal of waste water. Storage and Treatment Plants.								

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$204	Building Maintenance And Strengthening	1	2	0	3	2	3	Compulsory
Damage identification and evaluation. Types of earthquake damage. Gathering information related to earthquake damage. Non-Destructive Testing. Destructive Testing. Repair and strengthening materials. Strengthening of structural elements. Strengthening of the new elements in the carrier system. Strengthening the review of the projects. Corrosion damage and repair. Damage assessment and strengthening of masonry structures.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$206	Steel Constructions	3	0	0	3	3	3	Compulsory
Steel Structures, junction points. Steel structure, Point Details. Steel Structures Tensile Bars. Steel Structures Pressure Bars.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$210	Project Study And Application	1	2	0	3	2	3	Compulsory
Project Title. Needs Assessment and Work Program. Resource Research. The execution of the project. Presentation of the project. Project Filing and Delivery.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$216	Research Methods And Techniques	2	0	0	2	2	2	Compulsory
Science, research, scientific research concepts. Science and science ethics. Research ethics and research ethics violations, basic principles of research ethics. Scientific misconceptions, violations of publication ethics, problems of authorship rights. Types of scientific research, problem statement, hypothesis, theory. Scientific research report content, the formal structure of the research report and the use of language in scientific text. Interpretation and report writing. Scientific publication ethics principles Scientific works and their types. How to use the internet, library and documentation centers. Ethical standards, legal limitations and software. Presentation and evaluation of research reports prepared by student groups.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$224	Construction Quantity and Cost	2	2	0	4	3	4	Compulsory
What is the quantity? Description. Plankote calculation. Obtaining the quantities. Unit Price Obtaining and Approximate Cost Calculations. Tender Commissions, General, Technical and Special Specifications. Tender Files. KIK (Public Procurement Law) Proposal Files. Tender Contracts.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$226	Soil Mechanics-II	2	0	0	3	2	2	Compulsory
Vertical stress in the ground. Horizontal stress in the ground. Compression, Consolidation and Settlement of the Soils. Stress-Deformation Behaviour and Shear Strength of the Soils. The improvement of the Soil Properties. Special topics in Soil Mechanics.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$228	Soil Mechanics Applications	0	2	0	3	1	2	Compulsory
Introducing the course and the laboratory environment. Index properties of soils. Classification of soils. Permeability (hydraulic conductivity). Consolidation and shear strength parameters. Laboratory procedures. Grain distribution and Atterberg limits in soils. Compaction and CBR experiments. Unconfined compression test. Direct shear test. Laboratory and in-situ vane tests. Preparation of Soil Mechanics reports. Application.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$218	Professional Ethics	2	0	0	3	2	2	Elective
Examine the concepts of ethics and morality. Examine the ethical systems. Investigate the factors that play o role in the formation of morality. Examine the ethics of profession. Analyzing the results of corruption and unethical behavior in professional life. Examine the concept of social responsibility.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$220	Business Management-II	3	0	0	3	3	3	Elective
Overview of business management concepts. The birth and historical development of management science. Management functions. Human Resources Management. Production model and development. Management of marketing activities. Financial management of the business. New Management techniques.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
IN\$222	Quality Assurance and Standards	3	0	0	3	3	3	Elective
The concept of quality. Standard and standardization. The importance of the standard in the production and service sector. Management quality and standards. Environmental standards. Quality management system models. Strategic management. Participating in management. Process management system. Resource management system.								

Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
<b>İNŞ230</b>	Architectural Model Techniques	1	2	0	3	2	3	Elective
Use of Model in Definition and Architecture. Providing general information about the materials used in model making. Developing cutting technique, exercises using utility knife. Cutting Straight Lines Cutting Curvilinear Lines. The Concept of Scale in the Model Application Areas of These Scales 1 / 1000-500 Field Working Models 1/500 Model Working Model. 1/200 Model Working Model 1/100 Model Working Model. Model Making Techniques Practice (Foam and Derivatives). Model Making Techniques Application- (Plastics and Derivatives). 1/50, 1/20 and 1/10 Model Work Production of furnishing elements (chair, table, shelves, bed etc.). Model Making Techniques Practice (Cutting). Model Making Techniques Practice (Assembling). Model Making Techniques Application (Delivery and Compliance).								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
<b>İNŞ232</b>	Building Information	2	0	0	3	2	2	Elective
Introduction and explanation of lecture contents. What is architecture? Who is architect? Interest of architecture and architect? Evolution of architecture in the historical processes. Planning phenomenon in architecture. Design phenomenon in architecture. Building requirement program. Building components. Analyzing building examples. Relations between ecology-environment-architecture.								
Course Code	Course Name	T	P	L	ECTS	C	Hours	Type
<b>İNŞ234</b>	Entrepreneurship and Innovation	2	0	0	3	2	2	Elective
Introduction to basic entrepreneurship concepts. The entrepreneur as an individual. The entrepreneurial process. Developing a business plan. Innovation and opportunity. Resources for entrepreneurship. Environmental Scanning. Marketing Research. Financial Preparation. Intrapreneurship. Strategic Management For the New Venture. Presentations.								