

Department of Architecture
Course Contents

1. SEMESTER

Basic Design:

Basic Design Studio is aiming to enable students to gain awareness of spaces through “perception, comprehension and expression” processes and to evaluate the abstract thinking skills in the context of problem solving at different scales. Students are expected to use common pattern language composed of dot, line, shapes, texture and structure to interpret and abstract the social and psychical aspects of existing environment. Basic design principles such as harmony, contrast, balance, scale, proportion are being experienced during this process within daily workshops. Through the final workshops, content of the course focuses on meaning of relation between subject and object, and their interaction in space, time and place to define contemporary facts in built environment.

Architectural Theory and Design I:

This course provides a conceptual framework for the students to perceive, to conceive, to express, to evaluate an existing architectural space and to propose new functional organizations. Human factors and ergonomics, program, planning principles and contemporary examples of different types of building (pre-determined in theoretical part of the course) are taught with the support of visual material.

Architectural Presentation Techniques I:

The main aim of the course is to inform students about architectural drawing; to provide them to develop mental and physical skills with using some presentation techniques. These techniques are going to help them expressing design ideas in two and three dimensions.

Mathematics:

The aim of this course is to teach the basic mathematical techniques, to acquire the necessary mathematical skills to analyze the problems, to provide practical use of mathematics with using many different problems, to be able to gain analytical thinking, discussion and evaluation.

History of Art:

This course requires students to develop their ability to communicate their knowledge and understanding of art historical movements, practitioners and works, considering the way that these change and evolve within chronological and other frameworks. It also builds their understanding of the relationship between society and art; art historical terms, concepts and issues.

English I

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

Turkish Language I

This course aims to teach the students the characteristics and the rules of Turkish language with examples, to improve the skills and habits of expressing their thoughts and words accurately and effectively, to improve their vocabulary through written and oral texts and to develop language skills which are fundamental for an appropriate communication.

2.SEMESTER

Introduction to Architectural Design:

This course introduces architecture students to architectural design processes by emphasizing functional, environmental, organizational, relational, structural, conceptual, compositional, social, psychological and cultural aspects of architectural design. First project aims to provide visual and spatial thinking habits. Students use techniques of narration, discussion, drawing and modeling to improve their mental creativity and design skills.

Architectural Presentation Techniques II:

This course (which is the continuation of the previous course), aims to make students learn the presentation and drawing techniques by using computer programs for 2 and 3 dimensional drawings and presentations. One of the CAD programs will be taught (AutoCAD or ArchiCAD)

Architectural Theory and Design II:

Course Contents:

Introducing different types of buildings in historical development

examination of functional solutions

explanation of planning principles and design processes

creativity in architecture

different techniques and approaches in architectural design

The ways of perceiving, knowing and behaving

the effects of materials and technology on the design and shaping process

architectural design effects of ecological parameters

Culture, Art and Architecture:

This course requires students to perceive the influence of the "culture" on architecture and how the various changes in the arts and cultures influence the architecture.

Introduction to Building Construction:

In this course; structure, structural sub-systems, architectural technology and construction technology concepts, structure and construction methods, user-environment-structure system interactions, performance needs of constructions will be discussed.

Descriptive Geometry:

General Meaning of the Descriptive Geometry and Its Development in the Historical Process.

Projection, Types of Projection, Projection Planes, Representation of Point on Conjugate Projection, Explanation of Coordinates and Various Locations, ...

Turkish Language II:

Essay and article readings and writings.

World literature readings and discussions in Turkish

Turkish Grammar

English II

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

3. SEMESTER

Architectural Design I:

This studio course enables students to meet functional complexity and spatial difference phenomena and create design solutions that can fit directly to the architectural program. Discussions, drawings, modelings, and demonstration teaching methods and techniques will be used to enhance students' mental creativity and design skills.

Construction Technologies and Materials I

The concepts of architecture, architecture and building technology.

Introduction of building and construction methods.

Interaction between the user, environment and the building system and the introduction of environmental factors and expected performance characteristics in this context.

Introduction of building sub-systems.

Production techniques and construction processes.

Design and integration of building elements.

Structural design requirements

English III

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

History of Art and Architecture I

The process of architectural development from the prehistoric period to the end of antiquity:

Prehistoric period, Egypt, Mesopotamia, Anatolian civilizations, Ancient Iran, Ancient Aegean, Greek, Etruscan and Roman architecture, Early Christian and Byzantine architecture.

Statics and Strength of Materials

Structural elements of buildings, structural loads, supports and types, internal forces and internal force diagrams, various cross-sectional forces, knowledge of the design and dimensioning of bearing system elements.

Ataturk's Principles and Reforms I

The Collapse of the Ottoman Empire and the Causes of the Turkish Revolution.

4. SEMESTER

Architectural Design II

This studio course enables students to meet functional complexity and spatial difference phenomena and create design solutions that can fit directly to the architectural program. Discussions, drawings, modelings, and demonstration teaching methods and techniques will be used to enhance students' mental creativity and design skills.

Structural Analysis

This course provides students to be able to calculate the cross-sectional effects and shape changes under various loads of the isostatic and hyperstatic structural components constituting the structure.

Construction Technologies and Materials II

Design and integration of building elements. Design of structural element systems within the framework of requirements, criteria and possibilities related to structural design.

Ataturk's Principles and Reforms II

The strategy of the Turkish Revolution. Revolutions in the political arena: the declaration of the Republic, the removal of the caliphate. Progressive Republican Party Party and Takrir-i Sukun Period Party. Revolutions in the field of law. Revolutions in the field of education and culture. Revolutions made on the economic scene. Multiparty survival experiment and some domestic political events. Revolutions made in the social arena. Turkish foreign policy in Ataturk period.

English III

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

History of Art and Architecture II

Early Islam, Great Seljuks, Anatolian Seljuks, Anatolian Principalities, introduction of Ottoman architecture and arts, contributions of Architect Sinan.

5. SEMESTER

Architectural Design III

This studio course aims to develop solutions by considering the design problem for a certain purpose as a whole is provided to discuss the meaning of "space-environment-place" in natural and cultural environmental conditions and to discuss its meaning, solution and role in design. The theoretical aspect of architecture is examined through design problems. Students gain the ability to use terminology and concepts related to architecture through seminars and research. Contemporary architectural examples and approaches from Turkey and from the world are critically evaluated.

Urban Design I

To teach that urban design contributes to the sustainable development of the city by considering the ecological, social and environmental values and to realize project planning knowledge, theory and applications. To teach architectural students urban design and theoretical framework, application tools and methods.

English III

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

Construction Technologies and Materials III

Analysis, design and construction of building elements, windows, doors, coatings (wall, floor, ceiling), curtain wall systems, suspended ceiling systems, chimneys, fireplaces. Requirements, criteria, possibilities related to structural design. Building element systems design principles. Traditional and contemporary construction methods.

History of Art and Architecture III

Romanesque, Gothic, Renaissance, Baroque and Rococo, Classicalism, Historical and Industrial era in medieval Europe. processes of modernism and contemporary architectural movements and art periods of the twentieth century.

Conservation and Restoration

Historical development of conservation philosophy and theoretical basis, conservation criteria, classification of architectural values to be preserved, reasons for deterioration of historical environment/structures and conservation methods are explained with local examples.

6. SEMESTER

Architectural Design IV

In this studio course, architectural thinking is dealt with in terms of structure, structure, detail in the context of design issues that will improve the ability of environmental conditions to be versatile as data to design problems. The design problems are studied at

different levels of detail and the complexity of building / structure group design processes is experienced. In this process, technical data are also included in the design process.

English III

This course enables students to follow the professional English courses they will see in the following years, to have English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

Urban Design II

This course enables students to have the skills of urban planning and urban design required, ecologically sustainable designs, to have sufficient experience in settlement studies, to protect cultural values, to have theoretical knowledge and practice in environmental protection and development.

Surveying and Restoration

Short information about photogrammetry and traditional techniques which are widely used for the preparation of the survey of a building with a historical document is conveyed to the students. Information about the analysis studies prepared to determine the deterioration are given. Inventory fiches and runaways belonging to a predetermined historic structure are prepared by the students in the light of theoretical knowledge using traditional scale techniques. In the direction of the prepared roads, the restitution project and the restoration projects are prepared by discussing the existing structural adaptation and intervention techniques of the new function proposed for the structure.

7. SEMESTER

Architectural Design V

Development of complex building / building group programs and production of architectural solutions in complex environments; development and implementation of data collection, analysis and building program development processes that are appropriate to the nature of the design problem and reflect the designer's personal interests and skills; the development of the architect's design problems with the ability to dominate the components of the structure, building systems, detail development, etc. throughout all the processes of design.

English III

This course enables students to learn English grammar, vocabulary, reading comprehension, oral expression and writing skills to help them in their postgraduate and professional lives.

Construction (Application) Project

Creation of spatial arrangements and carrier system alternatives within the scope of the application project. Integration of static, plumbing, mechanical and electrical equipments related to building sub systems with architectural project, design of the application project according to the applicable building legislation (earthquake, heat conservation, noise, fire

etc. regulations) narrative techniques and preparation of the project in accordance with the principles.

Construction Zoning Law

Introducing the legislation which is the legal tools of urban planning and architectural applications and examining the implementation problems.

8. SEMESTER

Graduation Project

Graduation project is to demonstrate that the student has the necessary level of knowledge and interpretation in all areas of discipline that constitute the whole of the education and training in the architecture department and that he / she has reached the desired professional level. The necessary steps in the design process and the operations to be performed are determined by the jury. General inspections during the course of the project's implementation and during the course of project development are made by the diploma project jury at certain interim jury sessions during the semester. In this process, which will be carried out without any workshop activities except juries and seminars, it is aimed to design an urban problem by the student and to design it in the context of body, environment, material and transportation logic, to be drawn as a project, presentation and presentation.

Project and Cost Management

Concepts of production, management, economics and technology. (and relations between these concepts)

The evolution of the construction sector in Turkey,
the design and management of the construction phase,
the project management techniques.

Quantity, discovery, analysis applications in building production,
Tender laws and applications.