YENI YUZYIL UNIVERSITY

DEPARMENT OF ARCHITECTURE

UNDERGRADUATE COURSE CONTENTS

MIM101 DESIGN STUDIO I (2-4) 4 AKTS:4

The aim of this studio; to teach basic design concepts such as geometry, form, structure, scale, model/plan/section, space, velocity, body, time/space, tools and environments through multiple and increasingly overlapping experiments. The design studio consists of actions and experimental subjects that go simultaneously and intersect with each other at different intensity and moments. Studio productions, homework, drawings, visual presentations, talks, trips, readings, notes taken from observations and trips, written reports and sketches and films; continue throughout the semester in a semi-visible setup.

The city, the architecture of the city and the “architect in the city” constitute an important part of the studio work. The multi-layered and complex structure of Istanbul is seen as a chance for architectural education and site researches and observations are made to learn from the city. 'Passages', which have unique characters in different districts of Istanbul, reflect the character of the era and the metropolis as an 'intermediate' space chosen as an analysis and experiment area during the period, while density/transience, as a public/private and spatial element. It has been used to question the concept of 'passage'.

Different presentation media, transfer techniques, abstraction studies and mapping; in addition to being only assignments, the studio is treated holistically as a part of production and transformative tools. The most appropriate tools and techniques are tried for each project, without breaking the dual but constant connection between product and media. The period ends with a 1/1 scale additional passage design, in which learning from multiple experiments will be used and situations such as the stages of creating a project, material, impact, scale and production will be encountered for the first time.

Throughout the semester; the student's current personal curiosity, interests and imagination are supported, while it is aimed to develop the habits of participation, joint discussion, individual and group work. Questioning, thinking and rethinking throughout all experienced tools and subjects is the main habit that is tried to be acquired.

MIM103 ARCHITECTURAL EXPRESSION TECHNIQUES I (2-2) 3 AKTS:4

The aim of this course are to enable students to understand, evaluate and perceive three dimensional forms and volumes expressed on the plane of paper and to gain the ability to express themselves with writing-model-drawing-sketching methods. The course covers drawing tools and applications drawing simple geometric forms in different scales. In addition to this, it aims to draw simple objects with plan-section and views, to gain the ability to draw axonometric, isometric, dimetric and trimetric perspectives of solid forms and single point perspectives from interior spaces.

MIM105 BUILDING INFORMATION I (2-2) 3 AKTS:4

It is aimed to gain the students the skills of perceiving, comprehending, evaluating, expressing, analyzing usage relations and bringing usage options to the space and knowledge of human dimensions, needs and the ability to establish environmental relations. In addition to this, it is aimed to give the student the ability to evaluate the concept of space, to establish the organization of the space and to develop the user relationship with versatile solutions.

It is to ensure the positive and successful use of these design components in architectural arrangement in line with finding the appropriate dimensions of “action areas” with spatial analysis within the scope of interior- exterior, near- far environment, the basic concept of 'human measure', which is the main dimension of the space phenomenon.

MIM107 ART HISTORY (3-0) 3 AKTS:4

This course is for the architecture students to acquire and improve their knowledge of art history. The aim of the course is to examine the basic theories and concepts of the discipline of “Art History”, the formation and change phases of the facts and images in the historical process, the function and logic of visual arts, and to contribute to the understanding of art by making comments on artists and works.

MIM109 COMPUTER AIDED DESIGN I (2-2) 3 AKTS:4

The aim of the course is to increase the ability to compute and to think and produce with different numerical tools. In this way, it aims to reconstruct material-product-designer relationships that are separated from each other in a different way, with the experiments made by the student and the tools experienced. In the course, new tectonics are explored using basic architectural digital design tools. Many small-scale projects produced in computer environment, considering the physical production, teach the active use of new technologies. During the semester, the skills of using AutoCAD from basic drawing programs, Adobe Photoshop and Illustrator as visual data processing and visual transfer platforms will be acquired.

MIM111 ARCHITECTURAL GEOMETRY I (2-2) 3 AKTS:3

The aim of this course is; to enable students to develop their three-dimensional thinking skills and learn the geometric definitions of objects. The solid establishment of the geometric information infrastructure enables the designers to express their design ideas sharply while expanding their form regarding the horizon. In this course, which also includes the expression techniques of geometric ideas, geometric modeling tools and techniques that are renewed with the developing technology are taught. The geometric topics covered in the course are supported by a continuous digital model. Topics starting with Pythagorean Geometry will continue to Non-Euclidean geometry and irregular mathematical surfaces. Solid, mesh, nurbs, parallel and curvilinear projection topics will be covered in the explanations and samples made on the digital model.

ATA151 ATATURK’S PRINCIPLES AND HISTORY OF REVOLUTION I (2-0) 2 AKTS:2

In this course content, the period from the middle of the 19th century to 1924 is evaluated. Westernization efforts and reforms in the Ottoman Empire, social and economic changes, World War I, the rise of Turkish Nationalism, War of Independence, wars, domestic and foreign policy; The Treaty of Lausanne and the declaration of the Republic are the main points to be focused on.

TRD151 TURKISH LANGUAGE I (2-0) 2 AKTS:2

This course covers language definition, types and features, language-thought-culture-literature-art relations, method of analyzing informative texts, written expression information (topic selection, limiting the topic, purpose and perspective, preparing a writing plan, writing an essay in various genres, summarizing a text), verbal expression information (general information, impromptu speech, prepared speech (discussion, panel discussion, debate, memoir-anecdote-event narration), Turkish grammar (syntax, semantics), Turkish usage (items of expression, language mistakes) and applied Turkish spelling and punctuation information.

ING151 ENGLISH I (3-0) 3 AKTS:3

English I (ING151) given in the fall semester and English II (ING 152) given in the spring semester are successive courses as the book and course materials used. The main objective is to improve the students knowledge of English, to enable them to understand and interpret current and academic texts, to teach this language as a communication system and to gain the necessary language skills.

MIM102 DESIGN STUDIO II (2-2) 3 AKTS:4

In the design studio in spring term; the design concepts, ideas and tools learned and experienced in the first term; possible situations and intervention opportunities in city reality and scale is tested. It is expected that the student will take a personal and architectural approach by reading, documenting and transferring a place by writing back, developing a proposal and influencing daily life. While trying this chance of effect, discussing subjects such as activity / space relationship, space, possibility, and meeting the architectural program concept is targeted. As a parallel study, in order to support the personification of architectural practice and curiosity, the student will be asked to realize the spaces from his own life, memory or imagination using different modeling techniques and materials.

As a project series; analyzing important architectural products with a reverse engineering interest; to understand the importance and periodic effects of these products by creating drawing sets and original models, it will be organized to form a critical-constructive interest in the student's architectural history and theory. These important products; form, structure, activity and subjective-transforming potential readings will be analyzed, and the intellectual grounds in the background will be reproduced.

MIM104 ARCHITECTURAL EXPRESSION TECHNIQUES II (2-2) 3 AKTS:4

The aim of the course is to understand the two and three dimensional expression of three dimensional forms and spaces; to increase their ability to communicate with physical modeling, detailed technical drawings or freehand drawings. The content of the course, the work to be done during the design process - the site plan (1/500), schematic plan (1/200), furnished plan (1/100), implementation project (1/50, 1/20, 1/10) details (1/5, 1/2, 1/1) - covers. Project presentation, portfolio preparation, writing techniques and model making are also included in the course content.

The aim of this course also is; giving the necessary basic knowledge to prepare all architectural expression techniques (architectural technical drawing, axonometric and conical perspectives), space geometry and projection. It is to gain the ability to express figures by using the information. It is aimed that students of architecture will be able to express the positions of the forms, the intersections of points, lines and planes with each other, the projections and shadows of geometric bodies with

geometric definitions. It is aimed to give students the knowledge of locating their designs in space, and to develop their perception and comprehension skills.

MIM106 BUILDING INFORMATION II (2-2) 3 AKTS:4

The aim of this course is; educational and cultural facilities, accommodation facilities, offices and administrative buildings etc. belonging to building types to gain design ability about the analysis methods of concepts such as type, typology, movement, interior-exterior integrity. The main aim of this course is to provide students with the ability to think about the relationship between complex functional buildings and their environment, and to gain design skills about the analysis methods of concepts such as movement, indoor-outdoor integrity.

MIM108 ARCHITECTURAL HISTORY I (3-0) 3 AKTS:4

This course, which covers the main developments in the history of architecture from the beginning of architecture to the Byzantine period, aims to introduce the main works of Egyptian, Mesopotamia, Greek, Roman, Medieval and Byzantine architecture in the context of building types and construction techniques, starting from the first settlements in the prehistoric period and the construction activities in Anatolia.

MIM110 ARCHITECTURAL AIDED DESIGN II (2-2) 3 AKTS:4

The main aim of this course is to introduce students to CAAD (Computer Aided Architectural Design) and to provide information on 2D basic drawing and 3D solid modeling tools. The content includes introducing BIM (Building Information Modeling) and helping them understand the methodology and procedures of working in an environment where an object-based, parametric building model serves as the core for different disciplines. The software chosen to perform all tasks is Allplan. At the end of this course, the student will gain the necessary design, drawing and presentation skills that he can express through plans, sections, facades, details and toned perspective views.

MIM112 ARCHITECTURAL GEOMETRY II (2-2) 3 AKTS:4

The aim of this course is to bring the students whose three-dimensional thinking abilities have reached a certain level to use these abilities of the latest tools of developing technology. To teach this geometry is not only a perception of form but a concept that should be considered together with sub-disciplines such as aesthetics and light. Mathematical surfaces will be created by creating fractal geometries using Python and Mel Script. Basic geometric over curvilinear surfaces using the Rhino Grasshopper plug-in. The techniques of reproduction by deforming the forms according to a certain rule will be explained.

ATA152 ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION II (2-0) 2 AKTS:2

This course covers the period from the Treaty of Lausanne to the death of Atatürk and revolutions within Ataturk first, developments in the field of social and economic, cultural and ideological changes are happening in domestic and foreign policy and Turkey's place in the world are the main topics that will be highlighted.

TRD152 TURKISH LANGUAGE II (2-0) 2 AKTS:2

This course covers World and Turkish languages, methods of analyzing informative and narrative texts, written expression information (paragraph and its types, ways of developing thought in writing studies (definition, exemplification, comparison, quoting from other sources, using statistics), forms of

narration (explanatory, argumentative, descriptive, narrative narration), writing composition in various types), verbal expression information (prepared and unprepared speech (discussion, panel discussion, debate, memoir-anecdote-event narration, etc.), Turkish grammar (syntax, semantics), Turkish usage (elements of expression, language mistakes), applied Turkish spelling and punctuation information.

ING152 ENGLISH II (3-0) 3 AKTS:3

In addition to the general objectives of the ING 151 course, this course aims to improve students academic writing skills.

MIM201 ARCHITECTURAL PROJECT I (2-6) 5 AKTS:10

The aim of this course is to provide students with the ability to explore, understand and analyze design problems based on the concepts of "Equipment-Human and Movements-Space". In this course, the concepts of accommodation, nature, urban or rural-geography, and borders are taught through space. In studio studies, it is aimed to assimilate the concepts that form the basis of the design problem by the student, to develop the spatial intuition of the students, to gain the ability to think by establishing similarities and abstract thinking.

It is expected from students to express their ideas through sketches, drawings and models. Topics conveyed and discussed in the studio, topography, climate, scale, volume, movement, ergonomics, spatial quality, light, security, residence. This course is supported by computer-aided design courses.

MIM203 PHYSICAL ENVIRONMENT CONTROL I (2-2) 3 AKTS:4

The aim of this course is to strengthen the students perception of the concept of sustainability and to present passive environmental intervention methods. Sustainable development, environmental context, ecology, energy and pollution, conservation of water and soil resources, environmental health and safety, smart use of exhausted resources, recycling, safe and healthy buildings, environmental effects of building production, products, production processes and related design issues are the core of the course. Environmental control, solar radiation, natural light, daylight, natural light exposure through windows and lights, thermal control, air temperature, air movements and humidity, fundamentals of heat, heat loss and gain from the building envelope by radiation, conduction, convection and evaporation under winter/summer conditions, solar control and shading; energy conservation, passive and solar gain, thermal insulation, passive cooling systems are also covered in the course.

In addition to this, climate, climatic elements, climatic comfort, climate-related design variables (orientation, location selection, building form, building envelope, etc.), definition of light, photometric magnitudes, visual comfort, design variables in light control (windows, space dimensions, interior surface reflectivity, external obstacles, etc.), natural, artificial and integrated lighting design issues is also be discussed.

MIM205 ARCHITECTURAL TECHNOLOGY I (2-2) 3 AKTS:4

The aim of the course is to improve the knowledge of the building as a whole and the properties of the elements that make up the structure, and to make the necessary decisions about planning by examining the behavior of each architectural element under structural loads and earthquake loads.

Producing drawings, that enable the construction of the building to be produced in the studio and discussing each topic together, aims to reach the most accurate and rational solutions. Subjects given in the scope of the course; architecture, technology, ecology, natural and artificial environment, sustainability, building, building sub-systems, carrier system, building elements, vertical transportation elements, construction and structure.

Starting from the design process, to inspect the structural elements such as foundations, walls, columns, beams, floors, stairs and partitions, doors, windows, roofs and similar elements that make up the building, examine relevant materials, choosing the carrier system to be used after the research on building methods, seeking the necessary detail solutions, starting from the preliminary project, it will be to prepare the necessary drawings at the stage of final and application projects.

This course covers analysis, design and construction of building elements, exterior wall systems (walls related to atmosphere and soil), window and door systems, flooring systems (floor-standing, normal and bottom open floors, suspended ceilings, raised floors), vertical circulation systems (ramps and stairs), roof systems (flat and sloping roofs), internal partition systems (fixed and movable interior walls), requirements, criteria and possibilities related to structural design and building element systems design principles. Traditional and advanced construction methods constitute is also the main scope of the course.

Application-Studio Work: Analysis and synthesis of building element systems.

MIM207 STRUCTURAL SYSTEMS I (3-0) 3 AKTS:3

Introduction to the mathematical foundations of the concepts of statics, equilibrium, center of mass and neutral axis. Structural systems and system components: column-beam system, masonry structures, skeletal structures. Static: static and dynamic loads, forces and resisting resistance, tensile, pressure and wear, modulus of elasticity, strength of materials, performance of structural elements, columns, beams and floors. Geometric strength of a frame, static balance of forces and moments, isostatic and statically indeterminate carrier system elements and systems.

MIM209 ARCHITECTURAL HISTORY II (3-0) 3 AKTS:3

This course, which is a continuation of the History of Architecture I course, aims to examine the concepts and terminology of eastern and western art and architecture in the context of the historical process, the works of European Architecture from the Renaissance period to the 20th century, in terms of period and stylistic features, as well as the emergence of Islamic architecture. It aims to introduce the first examples in geography.

MIM211 COMPUTER AIDED DESIGN III (2-2) 3 AKTS:3

The main aim of this course is to introduce students to basic architectural visualization techniques. The content includes data transfer from CAD and BIM applications, modeling of basic shapes, material creation and coating techniques, architectural lighting creation, rendering and necessary settings. The software chosen to perform all tasks is Cinema4D. At the end of this course, the student will be able to present their projects using different architectural visualization techniques.

MIM202 ARCHITECTURAL PROJECT II (2-6) 5 AKTS:10

The aim of the course is to provide students with the ability to explore, understand and analyze design problems based on the concepts of "body-space environment" that were taught a semester ago. This course informs students about elements such as private-public space, indoor-outdoor space, natural-artificial environment, location. In studio studies, it is aimed to gain the concepts that form the basis of the design problem by the student and to develop the spatial intuition of the students. The design tools used in the studio are models, photographs and sketches prepared at different scales.

Topics conveyed and discussed in the studio are issues such as private-public space, natural-artificial environment, material construction, spatial frameworks, volume and mass, landscape.

This course is supported by computer-aided design courses and it is reinforced with programs that aim to develop the students skills in design tools and presentation.

MIM204 PHYSICAL ENVIRONMENT CONTROL II (2-2) 3 AKTS:4

The aim of this course is to introduce students to artificial environmental control tools and service systems. This issues are water and plumbing systems, fire safety, heat, heat flow, air and hot-water based heating systems, central heating, air conditioning, solar heating systems and their environmental effects. Hot and cold water supply and piping systems, internal drainage as a sanitary system, and rainwater removal are the also main issues.

Fire safety: Entrance, exit from the building regulations and provisions, horizontal and vertical exit designs, protection of fire exit zones, internal fire splash, equirements and required material performances for the carrier system, walls, floors and ceilings are also covered within the scope of the course.

Complementary to all these issues: Sound, auditory comfort, design variables in noise control (space form, building envelope, noise source and building distances, etc.), noise control systems, acoustic design of halls. Heating, ventilation and air conditioning systems is also be discussed.

MIM206 ARCHITECTURAL TECHNOLOGY II (2-2) 3 AKTS:4

Subjects given in the scope of this course are the design and integration of building elements. Design of building element systems within the framework of structural design requirements, criteria and possibilities. Integration of building element systems with each other in line with a holistic perspective (roof, outer wall, outer wall, window-door, outer wall, flooring, flooring, vertical circulation, outer wall, inner partition, flooring, inner partition, etc.).

Another aim of this course is to explain the general properties of building materials, their usage areas and their application methods, the production methods with examples. Additionally, the aim of this course is to explain the general properties, usage areas and application methods of building materials with examples of production methods by adhering to the performances brought about by the material structure. It is to ensure that students use the right material in the design and application phase with the right method and in line with aesthetic criteria, become aware of material choices, and increase the number of choices.

Application-Studio Work: Analysis, design, integration and explanation of each building element and component according to given criteria and boundaries.

MIM208 STRUCTURAL SYSTEMS II (3-0) 3 AKTS:3

The main aim in this course is structural systems and system elements of buildings, earthquake resistant structural design, to improve their understanding.

Introduction to wooden, reinforced concrete, steel and masonry structure systems, tension acceptance and tension structures in single and multi-storey buildings. Openness and placement of structural elements, design of horizontal and vertical building systems. Earthquake and building structural systems response to earthquake load. Introduction to structures with geometric stability and working to lateral forces. Erratic structures due to irregular seismic responses and lateral/vertical irregularities in irregular structures. Earthquake resistant structural system design and earthquake resistant codes and rules are the main topics of the course.

Investigation of strength, buckling of stress, elastic coefficient of materials. Performance of simple supported and cantilever beams, structural efficiency. Shear, torsion and torsion moments.

Topics such as torsional moment, shear diagrams, efficiency of shears and inertia and torque, effects of load, structural depth, efficiency of beam with respect to span and slab concrete are covered by the course.

MIM210 ARCHITECTURAL HISTORY III (3-0) 3 AKTS:3

This course, which is a continuation of the History of Architecture II course, aims to examine the works of Islamic Architecture revealed in the wide geographical and historical spreading areas from Spain to India, the main developments and characteristic periods of Turkish-Islamic architecture in Asia and Anatolia, building types and It explains to students in the context of production techniques.

MIM212 COMPUTER AIDED DESIGN IV (2-2) 3 AKTS:3

Based on the basic knowledge of digital design acquired in Computer Aided Design I, II and III courses, this course continue to investigate solutions and numerical based design techniques for high-performance architectural products that can respond to more complex parameters and conditions. With regard to diversification, numerical fabrication and parameter multiplicity, add-ons such as Rhinoceros 3D platform and Grasshopper will be used in order to research more complex systems and gain 3-D thinking vest.

MIM301 ARCHITECTURAL PROJECT III (2-6) 5 AKTS:11

The aim of this course is planning multi-purpose spaces or groups of spaces in a way that serve the designated users of students, establishing space relations and seeing solution alternatives. To provide students with the ability to explore and analyze design problems based on "Space-City-Locality" concepts. This course reveals the relationship between technology, identity, meaning and architecture.

In studio works, it is aimed to gain the concepts that form the basis of the design problem by the student and to reinforce the spatial intuition of the students. It is also aimed identify problems, discover and reread the existing spatial order. Students are expected to express their ideas through sketches, computerized drawings and models.

Topics explained and discussed in the studio are functional zoning, urban design theories, city and architecture, structural systems, structure-ground relations, form and function, center-periphery

relations, urban images. This course is supported by cultural and professional trips, seminars, summer schools and programs aimed at improving the student's skills in design tools and presentation.

MIM303 APPLICATION PROJECT I (2-2) 3 AKTS:4

The aim of this course is to develop the knowledge and skills necessary for students to transform their schematic designs into constructible design studies and ultimately explain them with detailed designs and special specifications.

The course includes studio work, studio-based lessons and student presentations. The basic input of the course is the design work developed by the students in the Architectural Design II course. This design work is organized in a way to provide the technical development of the structure by transforming it into a detailed design and application project in the studio. Performance analysis of the carrier system, service systems, outer shell, inner partitions and vertical circulation elements are made. These system and elements are formed by integrating and the drawings are explained with the details of the building elements, reports and models. The application method is to draw from the whole project to detail.

MIM305 URBAN DESIGN I (2-2) 3 AKTS:4

The scope of this course is to inform about the development process of the city as a votive-city, site, commune, community, engagement, metropolitan-city and megacity from the Neolithic age, to discuss the role of the architect in planning efforts in this process, at the stage of modern urban design, one of the most important problems of today. The aim of this course is to investigate the examples that start from the bottom and investigate the planning efforts together with the neighborhood, determining the contributions of the architect in these efforts and preparing an urban design project as a teamwork with the locals in a selected neighborhood.

MIM307 SURVEY AND DOCUMENTATION (2-2) 3 AKTS:4

The aim of this course is to develop students skills of architectural research, analysis and documentation in a historical environment and to teach them how to take role play.

Various research and measurement techniques and materials and inventory preparation methods are explained in the courses. Building analysis, record keeping, topography information, photography, use of graphics, visual or written language for inventory are the topics that are emphasized. In the application part, a historical building is taken into account and documentation is made on the subject.

MIM309 ARCHITECTURAL TECHNOLOGY III (2-2) 3 AKTS:4

The aim of this course is to provide students with an understanding of skeleton bearing systems and technologies related to building envelopes, interior partitions and stairs.

Areas of emphasis: Structural system analysis (outer shell, walls: heavy panel walls with windows, light panel walls, heavy and light glass-based curtain walls). Roofs (flat and hipped roofs; Heat loss and gains in building shell and heat conservation technologies). Structure and ground interaction (placing the structure on the ground). Foundations (basement floors and walls). Interior partitions (floors, interior walls, stairs). Component design considering materials, technology and component performance. Frame bearing systems (single and multi-storey frames and their components, steel, reinforced).

Concrete and wooden framework carrier systems. Openings and sizing of system components. Carrier system analysis (simple homogeneous dimensioning of beams and columns).

Application-Studio Work: Analysis and synthesis of building element systems.

MIM302 ARCHITECTURAL PROJECT IV (2-6) 5 AKTS:11

The aim of this course is to provide students with the ability to discover, understand and analyze design problems based on the concepts of "Space-City-Time". This course reveals the relationship between the concepts of technological development, history, historical context, tradition, culture, memory, cultural value and architecture.

In studio studies, it is aimed to internalize the concepts that form the basis of the design problem by the student, to rediscover and re-read the historical problem area.

The stages are re-reading the existing historical structure, determining the architecture, building system and problems, reconstructing the context, re-functioning, designing new elements of the fiction. Models are visual determinations and computer environment design tools. Students are expected to express their ideas through sketches, computerized drawings and models.

Topics explained and discussed in the studio, architecture and city, typology, city and monuments, signs, urban spatial signs, reconstruction, urban and historical context, traditional and contemporary building systems, sustainability, locus, anchoring, symbols, structuralism.

This course is supported by cultural and professional trips, seminars, summer schools and programs aimed at improving the students skills in design tools and presentation.

MIM304 APPLICATION PROJECT II (2-2) 3 AKTS:4

The aim of this course is to develop the knowledge and skills obtained in the Application I Project.

The course includes studio work, studio-based lessons and student presentations. The basic input of the course is the design work developed by the students in the Architectural Design III course.

This work has been arranged in a way to enable the technical realization of the structure to be transformed into a detailed design and application project in the studio. The carrier system, heating/cooling system, cold water/hot water and health systems and the outer shell of the building are developed and integrated with the structure by providing dimensional coordination. One or more selected structural elements and components are designed, detailed and their specifications are prepared in accordance with the structure. The application method is to draw the project from the detail to the whole structure, unlike the Application I Project.

MIM306 URBAN DESIGN II (2-2) 3 AKTS:4

The aim of this course in Urban Design II teaches the basic needs of urban transformation in Turkey, which is on the architect's role in the realization of the urbanization process started is to articulate the architecture to be seen as the main problem. In addition to this process, individual and team analysis, synthesis and design examples are carried out in order to emulate the inhabitants as beloved and voluntary elements of urban design, and the projects are opened to inter-university and community-based discussions and evaluations.

MIM308 RESTITUTION AND RESTORATION (2-2) 3 AKTS:4

Within the scope of this course, it is aimed to inform the student about the methods and techniques used in measuring and projecting, documenting and examining the buildings that have the characteristics of cultural assets, and the restoration and restoration methods on a historical building that has been selected and restored in the survey documentation course. The work done in practice is turned into a project and delivered.

MIM310 ARCHITECTURAL TECHNOLOGY IV (2-2) 3 AKTS:4

The aim of the course is to make them understand the interior component design and the behavior of the building under earthquake loads and to introduce contemporary structural systems.

Scope of the course: Internal components in the building, interior walls, floors, suspended ceilings and raised floors. Behavior of structural systems under earthquake loads, irregular structures and behavior of irregular structures under earthquake loads, deterioration and collapse of the carrier system. Behavior of carrier systems, structural systems resistant to geometric balance and horizontal forces, expansion and horizontal, vertical movement joints.

In addition, the concept of building production system is also included in the main topics of the course: Basic elements of the building production system; resources, process, product. Requirements; system environment, goals, criteria. In parallel with social and technological developments, the change of building production systems from single to multiple, from small to large scale, from simple to complex, from general to specialization in terms of resources, process, product and organization. Features of the construction industry, the role of product and demand characteristics in shaping building production systems. Technology organization relationship. Evaluation of construction systems (technologies) in terms of resource “use/speed/quality”. Principles in building production system and building system selection, evaluation of the effects of alternative production systems and construction technologies on the design process.

MIM401 ARCHITECTURAL PROJECT V (2-6) 5 AKTS:22

Within the scope of this course, students will be able to serve designated users, with side functions added to the main function, it is aimed to analyze the spatial relations and the structural system, to design a multi-storey building or buildings and to inform this design about the urban design dimension.

The aim of this course is to provide students with the ability to discover, understand and analyze design problems based on "metropolitan-event-building". This course reveals the relationship between the concepts of present tense, difference, polymorphism-loss of meaning, multifunctionality (juxtaposition and overlap of different works), fragmentation, uncertainty, decentralization, subject and other, and architecture. The keywords of the design methodology are center-periphery, part-whole, real-imitation, and ethics. Students are expected to express their ideas through sketches, computerized drawings and models.

In studio studies, it is aimed to internalize the concepts that form the basis of the design problem by the student, to analyze the selected area of the metropolis, to identify the problems, to discover new dynamics and development potentials. The architectural design problem is to construct spaces of different functions and sizes. Stages; analysis and synthesis. The analysis includes the stages of determining the needs and problems of the region and architectural programming. Synthesis is the

design of the building with design principles based on function, form (location-environmental quality), time and economy.

Topics explained and discussed in the studio; flexible planning, high-rise buildings, metropolitan transportation networks, vertical circulation cores, covering systems, shell systems, between and residual spaces, depth of field, post structuralism. This course is supported by cultural and professional trips, seminars, summer schools and programs aimed at improving the student's skills in design tools and presentation.

MIM403 BUILDING MANAGEMENT AND ECONOMY (2-2) 3 AKTS:5

The aim of this course is to provide an understanding of the concepts of management, construction management, project management, economy, construction economy, cost and the methods associated with these concepts.

In the theory part of the course; besides introducing the functions of planning, organizing, executing and controlling; The phases of the construction process are discussed starting from the idea project, including the usage phase, and the management and economical methods used in each of these phases are introduced. In the application part of the course; site lists, schedules, special unit price analyzes, exploration summaries and work schedule are prepared on a project prepared by the student.

MIM402 GRADUATION PROJECT (0-12) 6 AKTS:22

Within the scope of this course, it is aimed that students will analyze architecture in a very comprehensive site plan and gain the ability to apply all the techniques they have learned.

The aim of the graduation project is to enable the students to use their architectural knowledge, experience and views to identify social, environmental and technological problems in society, to produce individual solutions to these problems in the design process, and to increase their ability to work independently. Students research architectural issues, taking into account user needs, functions, natural and artificial environment, technology and the special conditions of the region, and produce solutions for complex architectural programs.

In the graduation project, students work individually, evaluation is done by a jury and a thesis supervisor. Students complete the project with programs, architectural drawings, details, reports, and a mock-up.

MIM404 PROFESSION APPLICATION KNOWLEDGE (2-2) 3 AKTS:5

The course covers information about the management of an architectural office; architectural design office system, basic principles and procedures, reviewing the contract, contract letter, responsibilities, ethical values, relations with customers, markets and official institutions, legal requests, regulations, laws, codes and legal obligations in relation to professional practice, recognizing professional organizations, developing and regulating the CV and portfolio.