**İngilizce Mimarlık Yüksek Lisans Programı (Tezli) İçerikleri**

**Compulsory Courses**

**ARCH 525 Research Methods (3+0)3**

Research paradigms in architecture: qualitative and quantitative research methods. Techniques for data collection, data processing and interpretation of research findings. Reporting and communication of research results.

**ARCH 503 Project I** (3+0)3

Text given as a preparation for the Dissertation, a theme or a concept, related architectural studies. Application on the idea of ​​architectural form and space.

**ARCH 502 Project II** (3+0)3

Text given as a preparation for the Dissertation, a theme or a concept, related architectural studies. Application on the idea of ​​architectural form and space.

**ARCH 599 Seminar** (0+0)0

Preparation of a thesis report and application studies. Discussions on making a presentation on a specific topic assigned to each student.

**ARCH 500 Thesis** (0+0)0

Producing an academic-based study in line with the data obtained by applying qualitative and/or quantitative methods within the scope of a selected topic in line with the research paradigms in architecture.

**Elective Courses:**

**ARCH 506 Statistics (3+0)3**

Statistical concepts and models, data types, probability concept, random variables, random activity, Two-dimensional and conditioned sample space, concept of clustering, multivariate distributions, parameters of multivariate distributions, frequency analysis, parameter estimates, distributions of discrete random variables.

**ARCH 507 Architectural Planning (3+0)3**

Planning and architectural programming, needs and hierarchy (Maslow), activity types, activity clusters, process concept, relationships between clusters, circulation models. Space-syntax, functional analysis, function-space requirement relationships, performance requirements, time and movement requirements, preparing architectural program schedules, case studies.

**ARCH 508 Advanced Modelling (3+0)3**

Advanced computer modeling techniques. Developing algorithms to discover and create innovative textures, structures and forms in 2D and 3D.

**ARCH 509 Project and Construction Management (3+0)3**

Management processes and concepts. Disciplines and knowledge areas, roles, techniques involved in the construction management process (scope management, time management, cost management, quality management, human resources management, information systems management, contract management, etc.) Organizational structures of construction companies; Definitions of the general structure of construction companies and the business environment and applications of techniques used in time and cost management.

**ARCH 510 The Frontiers of Modern Architecture and Urban Design in the Early 20th Century (3+0)3**

A Critical Examination Of The Architectural Modern Movements Of The Twentieth Century. Researching the Cultural, Social And Political Background Of The "First Machine Age" By Examining Sample Works, Design Principles And Institutions Of Modern Architecture. Utopian Architecture by Well-Known Architects Such as Frank Lloyd Wright ("Broadacre City"), Bruno Taut ("Stadtkrone") And Le Corbusier ("Radiant City")

City ​​Designs; The Inspiring Bauhaus School, Which Was Influential In The Crystallization Of Avant-Garde Movements. Expanding Discussions In Western Europe And North America, The Middle-East, Eastern

Modern Architectural Concepts On The Emergence And Even Conflict Of Asian And North African Cultural Values ​​And Forms.

**ARCH 511 Architecture, Narrative and the City (3+0)3**

An introduction to architectural thinking and writing from a comparative and intercultural perspective. To address contemporary discourses of architecture, cities and urban design in a global context. In the course, which will be divided into different geographical locations, it is expected that the imaginary places in the relevant texts will be associated with real places in both aesthetic and intellectual areas.

Cities to be examined; Delhi, Jakarta, Beijing, New York, Berlin, London, Paris, Brasilia Algeria and Istanbul.

**ARCH 512 Avant-Garde Movements in Architecture And Art (3+0)3**

The influence of radical innovative movements in art, especially architecture, on the urban scene in the 1920s and 1930s. The emergence, transformation and different representations of modern public space in Europe. New art techniques that change perceptions of reality, the reduction of art to a "black square", the idea of ​​"anti-art", utopian city designs and the high-tech world of deconstructivism.

**ARCH 513 History of Urban Form (3+0)3**

Regarding the theories and principles involved in the construction of the urban form; about the city's development, political and economic policies throughout history; Creating an operational understanding of how to develop and apply a critical framework for urban intervention as architects, planners, engineers and citizens. The role of architecture in the future of cities in Turkey and the World.

**ARCH 514 Morphology of Built Space (3+0)3**

## Fundamental principles of the built environment and its underlying social logic. To develop awareness about the analysis and social consequences of strategic architectural decisions regarding building form and spatial organization, through case studies. Studies in lecture-studio format to apply this knowledge.

## ARCH515 Contract Administration (3+0)3

## Formation of construction contracts and sub-contracts; Contract management at different stages of construction projects. Subcontracting options for project delivery; analysis of selected contracts, contract disputes, arbitration, mediation, litigation; contract claims; risk allocation in construction contracts; international contracting.

## ARCH 516 Human Resource Management in the Construction Sector (3+0)3

## Modern organization and management theory, human resources theory, development of strategic approaches to HR management in the construction industry. Concepts such as employee relations and participation, workforce diversity, empowerment, health and safety and well-being, job performance measurement, leadership effectiveness, motivation theories, human resource development, conflict resolution, management of groups in construction firm and project, organizational change and learning, business design and satisfaction-productivity trade-off (job enlargement, job enrichment, job rotation).

## ARCH 517 Executive and Group Decision Making in the Construction Sector (3+0)3

To introduce the concepts and methods of criteria and alternatives for making complex decisions in both business and government, setting priorities, allocating resources, strategic planning, resolving conflict, group and individual decision-making approaches and support systems, performance and decision effectiveness.