

### **Course Description**

The overall design and building processes are intricate and interconnected with various disciplines. Each architectural design is unique and encompasses its own considerations in terms of design and construction processes. Given these perspectives, this course, while taking into account ethical and legal frameworks, aims to assist students in enhancing their professional outlook. This includes their participation in integrated design teams and the exploration of innovative approaches to managing complex designs within building environments.

This course delves into the content and context of ethical principles within architectural design and building processes, as well as their interactions with stakeholders. It also encompasses concepts and methods related to design management, design and construction planning, project organization, and the management of knowledge, time, cost, quality, and risks, all grounded in the realities of professional life. Furthermore, the course is expected to make a meaningful contribution to the professional field by addressing ethical concerns.

### **Course Objectives**

The course aims to highlight the responsibilities of architects to the public, encompassing aspects such as registration laws, building codes, contracts, environmental considerations, preservation, and open spaces. It serves as a platform for defining both legal principles and ethical concerns in architectural practice. Additionally, the course places a strong emphasis on imparting foundational knowledge to offer insights into the intricacies of design and construction processes.

Furthermore, the course is meticulously structured to provide a comprehensive overview of design management skills, competencies, and tasks. Its objective is to analyse systems, strategies, and management principles within the building environment, all while adhering to ethical values.

### **Learning Outcomes**

1. Defines principles of design and building/construction management with its processes
2. Defines ethical values and norms for architects in building environment.
3. Identifies project management concepts and methods commonly used in design and be able to apply them to processes planned based on ethical values.
4. Plan design strategies for complex processes for integrated design teams.
5. Determine balance between time, cost, quality in design management.
6. Analyse risks in design and building/construction processes.

### **Academical Ethics:**

In the context of the joint educational and learning process of this lecture, it is essential to uphold proper academic behaviours, which are outlined as follows:

- Demonstrate respect for others, ensuring that everyone can derive maximum benefit from educational opportunities.
- Avoid presenting or claiming anyone else's work as your own.
- Always provide proper references when using or showcasing someone else's work.
- Be responsible and considerate toward your group members when collaborating on projects or assignments.
- Attend and actively participate in all scheduled studies, meeting deadlines and fulfilling your commitments.
- Acknowledge and appreciate the contributions and achievements of others.

-Above all, maintain honesty and an openhearted approach in all academic endeavours, recognizing the importance of integrity in your work.

Opposite behaviour may cause failure and disciplinary executions.

(\*adapted from Prof.Dr. Selahattin Önür 's work on academic ethics.

### **Teaching Policy:**

**Study:** The primary objective of this class is to facilitate the analysis and synthesis of design and construction processes within the building environment. This will be achieved through the integration of theoretical knowledge with practical skills.

**Education Method:** The course will employ various teaching methods to achieve its objectives, including lectures, assignments, presentations, discussions, self-study, and self-education.

**Reading Assignments:** Students will be assigned a series of texts, including articles and papers, to enhance their understanding of the subject matter.

**Case Studies:** The course will revolve around case studies, with assigned tasks directly related to the course content. These case studies will provide practical insights and real-world applications.

**Guest Professionals:** To enrich the learning experience, visiting professionals relevant to the course topics will be invited to share their expertise and insights with students

### **Grading:**

Each student fails in case of not attending %30 of total course hours

Mid-Term Exam.....(40%)

Final Exam - Case Study (Project Delivery Process in Turkey) .....(60%)

(submission will be made during the final weeks)

### **References:**

The Architecture Student's Handbook of Professional Practice(15th Edition), 2017, American Institute of Architects, Online ISBN:9781119304364

Emmitt, S., Design Management For Architects, Wiley Blackwell, 2nd ed., 2014, ISBN 978-1118394465

Allinson, K., Getting There by Design, An Architect's Guide to Design and Project Management. Architectural Press. New York, 1998, ISBN 978-0750626231

Winch, G.M., Managing Construction Projects, Wiley –Blackwell Publications, 2nd ed. Iowa, 2009, ISBN 978-1405184571

Simon, H. A., The Sciences Of The Artificial, 3rd Edition, M.I.T. Press, 1996, ISBN 978-0262691918 Fellows, R., Liu, A., Research Methods For Construction, 3rd ed., Blackwell, 2008, ISBN 978-1405177900

Gültekin, A.T., Proje Yönetimi, Palme Yayıncılık, 2007, ISBN 9944341509

B. Wasserman, P. Sullivan and G. Palermo, 2000, Ethics and the Practice of Architecture, Wiley, ISBN 978-0471298229

## **SCHEDULE**

### **Week**

#### **1 / 01-10-2024**

Introduction, Design, Design management concepts and methods

#### **2 / 08-10-2024**

Architectural Design Process

Building process, design/construction/ in use

Building programming, stakeholders / processes

#### **3 / 15-10-2024**

Architectural Design Process

(the stakeholders/parties involved and their roles, responsibilities, capabilities and tasks)

Management Acts / Planning, Problem Solving, Decision Making, Control, Communication

#### **4 / 22-10-2024**

Management Facts/ Organization, Coordination, Efficiency, Standardization, Constraints

#### **5 / 29-10-2024**

**National Day**

#### **6 / 05-11-2024**

Integrated design team organisation

Turkish legislation and regulations for design and construction

(Guest professional)

Legal rights and responsibilities of architects in Turkey

#### **7 / 12-11-2024**

Project specifications including front end documents

#### **8 / 19-11-2024**

Project Management, BIM Integration

Financial- cost management / fee bidding, Negotiation, Financial Monitoring

survey, estimated cost, progress payment

(Guest Professional)

#### **9 / 26-11-2024**

Architectural Ethics in Professional Life

#### **10/ 03-12-2024**

Architectural Ethics in Professional Life

#### **11/ 10-12-2024**

Architectural Ethics in Professional Life

(Guest Professional)

**12/ 17-12-2024**

Quality management, total quality management, Quality assessment tools (DQI, + Green Building Certifications LEED, BREEAM) + Case Study

**13 / 24-12-2024**

Project delivery process

Building Contracts / design and construction  
(Guest Professional)

**14 / 31-12-2024**

Discussion

Case Study (Project Delivery Process in Turkey)