

Istanbul Technical University – Department of Architecture
MIM 497E – Time Management in Building Production, 22407
 Course Syllabus | 2019-2020 Spring Semester

Course Day and Hour: Thursday, 08:30-11.30
Course Room:
Course Credit: 3
Course Web Site:

Course Instructor: Bahriye İlhan Jones
e-mail: ilhanba@itu.edu.tr
Office no: 205/F

Course Assistant/s:
e-mail:
Office no:

Course Description

The knowledge of concepts, methods, techniques and tools related to “management of time”, which is one of the basic factors in the documents of contractual arrangements among the shareholders in the building production process in design and construction projects are learned by undergraduate students of department of architecture in Construction Management and Economy (CM&E) compulsory course. This elective course is the complementary part of CM&E course and it aims to teach the students the process of how to use the knowledge of above stated issues learned in compulsory course, integrately and systematically. Apart, the experience of managing the process of time management studies and related skills are gained by students during the course. In this context, project planning and programming studies considering the interactions among time, resources and cost issues, which are interrelated basic factors in management of time in design and construction projects are fulfilled by using the data of a hypothetical and simplified project data and scenario in a practical study. In addition to using conceptual tools of “interoperability” such as information classification systems, utilization of practical tools of developing project plans and programs, such as computer software to be able to analyse the projects and prepare reporting systems are taught to the students as well. Students consolidate their knowledge and skills in a self-defined group study of term project that may cover any kind of project type production set of activities of real life.

Course Structure and Plan

Course Plan

WEEK	DATE	TOPIC
1	13.02.2020	Content of the course, Weekly schedule and expectations from students, access to references.
2	20.02.2020	Basic concepts in building projects' management and its place in construction management.
3	27.02.2020	Management of time and its relationships with other management-related functions.
4	05.03.2020	Project Planning and Programming Techniques; CPM, LOB, Bar charts. Interactions among the basic factors of project planning and programming; Time, Resource and Cost.
5	12.03.2020	Analysing the structure and abilities of the software to be utilised in the course by using the scenario of a sample project; Introduction to term projects of the students.
6	19.03.2020	Preparing the database system of activities, relationships, team, performance, duration, resources and cost data.
7	26.03.2020	Mid-term Exam
8	09.04.2020	Transferring the data into the computer environment and Development of reporting system.
9	16.04.2020	Completing baseline schedule, Proceeding with advanced project plan and program.
10	23.04.2020	Public Holiday
11	30.04.2020	Proceeding with advanced project plan and program: Definition of calendars, activity coding systems.
12	07.05.2020	Proceeding with advanced project plan and program: Definition of resources and unit prices – Group Presentations
13	14.05.2020	Proceeding with advanced project plan and program: Resource leveling and optimisation of schedule – Group Presentations
14	21.05.2020	Proceeding with advanced project plan and program: Definition of reporting system, content and formats of the reports – Group Presentations

Recommended Readings

Project Management: Techniques in Planning & Controlling Construction Projects, H.N. Ahuja, New York: John Wiley & Sons, 1984.
 Time management for architects and designers: Challenges and remedies. T. Mann, WW Norton, 2004.
 Construction project scheduling and control. S. A. Mubarak, John Wiley & Sons, 2015.

Course Assessment

The average of mid-term examination score and practical study/assignment scores should be at least 40 points to take the final exam.

Mid-Term Exam: 20%; Practical Study: 20%; Assignments: 20%; Final Exam: 40%