

TOROS ÜNİVERSİTESİ

Faculty Of Fine Arts, Design And Architecture
Architecture

Course Information

CONSTRUCTION AND PROJECT MANAGEMENT					
Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
ARC415	Fall	3	0	3	4

Prerequisites and co-requisites	None
Language of instruction	Turkish
Type	Required
Level of Course	Bachelor's
Lecturer	Prof. Dr. Necati ŞEN Inst. Banu PELVAN
Mode of Delivery	Face to Face
Suggested Subject	None
Professional practise (internship)	None
Objectives of the Course	The aim of this course is to determine the similarities and differences for the definition and the content of the term "project" for the construction industry and the other industries. To indicate that the project and building management is a system work and to define the subsystems and the processes of the building construction. To specify the importance of the productivity increasing techniques and giving information related to productivity increasing techniques to compete with the other organizations in the industry. Defining the importance of the construction site and techniques to manage a construction site. At the end of the course by teaching planning and programming techniques it is aimed to give a general perspective for the building and project management course.
Contents of the Course	To analyse the terms project, construction and management. To define the properties of building construction industry with the comparisons to industrial production. To analyse the building construction process as a system and define its sub systems. To evaluate the terms productivity, effectiveness and efficiency by determining the usage of them within the building construction industry. To define planning and programming techniques with practical examples.

Learning Outcomes of Course

#	Learning Outcomes
1	To be knowledgeable about the development of building production.
2	Industrial production characteristics, dimensional and modular coordination skills development.
3	Improved traditional construction techniques; ready components and systems to be used in projects with the construction and design techniques.
4	Committed system design criteria and techniques, ability to solve problems and potentials of the development

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	An introduction to the terms project, construction and management.	
2	Analysing the building construction industry and defining construction management and project management.	
3	Analysing construction industry with the comparisons to industrial production.	
4	An introduction to productivity.	

5	Productivity in the building construction, effectiveness, efficiency.	
6	Techniques to increase the productivity in the construction industry.	
7	Productivity increasing applications in the construction industry.	
8	Midterm exam	
9	An introduction to the planning and programming techniques.	
10	Gantt, CPM, Pert techniques	
11	A classwork with Gantt technique.	
12	SWOT analysis for the building construction industry.	
13	Examples for construction industry SWOT analysis.	
14	Tender and terminology for construction tendering process.	
15	Summarizing the tender systems used for the construction industry	
16	Final Exam	

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
1	The Construction Specification Institute, 2005: The Project Resource Manual. McGraw Hill.		
2	AIA, 2008: The Architect's Handbook of Professional Practice. Wiley.		
3	Gold, F. and Joyce, N., 2009: Construction Project Management, Third Edition. Pearson Prentice Hall.		

Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	To be knowledgeable about the development of building production.	2,12	1,2
2	Industrial production characteristics, dimensional and modular coordination skills development.	2,12	1,2
3	Improved traditional construction techniques; ready components and systems to be used in projects with the construction and design techniques.	2,9,12	1,2
4	Committed system design criteria and techniques, ability to solve problems and potentials of the development	2,12	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	3	42
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	3	42
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0

7	Preparation for Midterm Exam	0	0	0
8	Midterm Exam	1	3	3
9	Quiz	0	0	0
10	Homework	2	15	30
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	0	0	0
16	Final Exam	1	3	3
				120