

**ÇANKAYA UNIVERSITY**  
**Department of Industrial Engineering**  
**Spring, 2018**  
**IE 446**  
**Project Engineering Management**  
**(3+0+3 credits, 4 ECTS)**

**Course Description:**

The role of projects in organization is getting more important as they become the major tool for reaching strategic goals. This module provides an integrative view of project management. Topics include project selection, project organization, budgeting and cost estimation, progress and performance measurement and evaluation, and project auditing. Project planning and control techniques, such as CPM and PERT, are also covered. After project management issues, project planning and control issues such as general review of CPM and PERT models to cover cases with certainty and uncertainty of activity durations; project crashing and PERT/Cost analysis; GANTT charts and resource balancing decisions; control, revision and verification of projects; computer applications are discussed.

**Course Description:**

This course aims to introduce the Engineering students project planning and control. Engineers are responsible for a safe, timely and cost effective delivery of a broad range of projects in various industries. In this course, the analytical tools and techniques required to manage projects effectively and efficiently will be emphasized. In this module, the project planning and control tools used in managing and delivering projects will be explained in depth. Upon the conclusion of this course, students will have gained a practical knowledge of:

- Project management principles
- Project scheduling: models and solution algorithms
- Project monitoring and control tools
- Project risk analysis tools
- Project management software

	<b>Instructor</b>	<b>Assistant</b>
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<b>Office:</b>	L304	L321
<b>Office Hours:</b>	TBA	TBA

**Grading**

Homework:	25 % (4 hws)
Project:	15 %
Midterm:	25 %
Final	35 %
<b>Total:</b>	<b>100 %</b>

<b>Tentative weekly course schedule:</b>	
Week	Topic(s)
1	Project & Project Management Definitions
2	Project Networks
3	Critical Path Method (CPM)
4	Review of Basic Probability Concepts
5	Program Evaluation and Review Technique (PERT)
6	Time-cost trade-offs
7	Resource Constrained Project Scheduling: single resource
8	Resource Constrained Project Scheduling: multiple resources
9	Project Monitoring and Control
10	Project Management Software
11	Decision Making Under Uncertainty
12	Project Risk Analysis
13	Project Presentations
14	Project Presentations

All the announcements, including the examination dates will be posted on [webonline.cankaya.edu.tr](http://webonline.cankaya.edu.tr)

**Failed students, who have not attended all exams and homeworks, will get “NA” letter grade.**

<b>Textbook(s)</b>				
Author(s)	Title	Publisher	Publication Year	ISBN
A.Shtub,J.F.Bard,S. Globerson	Project Management	Prentice Hall	2005	0-13-041331-3

<b>Reference Books</b>				
Author(s)	Title	Publisher	Publication Year	ISBN
J.R. Meredith, S.J. Mantel Jr.	Project Management, A managerial Approach	John Wiley & Sons, Inc.	2009	978-0-470-22621-6

**Policy on Home works and Exams:**

Cheating in homework and exams has serious consequences. Therefore, all work submitted should reflect your honest effort.

In this course, homework assignments and project play crucial role in ensuring students from understanding of the material that they have learned in lectures. In doing homework, assignments and project students should work in teams of two or three.