



ECTS COURSE INFORMATION FORM

Faculty	Faculty of Engineering		
Program	B.Sc. in Civil Engineering	Elective	
	B.Sc. in Computer Engineering	Elective	
	B.Sc. in Electrical-Electronics Engineering	Elective	
	B.Sc. in Industrial Engineering	Elective	
	B.Sc. in Mechanical Engineering	Elective	

Course Code	ENGR 452			
Course Title in English	Engineering Project Management			
Course Title in Turkish	Mühendislik Proje Yönetimi			
Language of Instruction	English			
Type of Course	Flipped Classroom			
Level of Course	Undergraduate/Graduate			
Course Category (by % of Content)	Basic Science	Basic Engineering	Engineering Design	General Education
	10	30	60	
Semester Offered	Spring			
Contact Hours per Week	Lecture: 3	Recitation: -	Lab: -	Other: -
Estimated Student Workload	144 hours			
Number of Credits	6 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	COMP109			
Expected Prior Knowledge	None			
Co-requisites	None			
Registration Restrictions	Undergraduate /Graduate Students			
Overall Educational Objective	To understand the basic structure of Engineering Project Management			
Course Description	This course examines the project management framework through the eyes of the IT professional using case studies and scenario-based learning. Topics include the PMI defined project management knowledge areas, project life cycles, and implementation within varying organizational designs.			
Course Description in Turkish	Bu ders, vaka çalışmaları ve senaryo tabanlı öğrenmeyi kullanarak BT uzmanının gözünden proje yönetimi çerçevesini inceler. Konular, PMI tanımlı proje yönetimi bilgi alanlarını, proje yaşam döngülerini ve çeşitli organizasyonel tasarımlar içinde uygulamayı içerir.			
Course Learning Outcomes and Competences	Upon successful completion of the course, the learner is expected to: <ol style="list-style-type: none">1. Identify, formulate, and solve engineering project management problems by applying principles of engineering as well as science and mathematics;2. Communicate effectively with a range of audiences via the lab reports and project presentations;3. Recognize ethical and professional responsibilities in engineering situations that are directly related to project management and related topics while considering the impact of engineering solutions in global, economic, environmental, and societal contexts;4. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;5. Develop and conduct appropriate examples to analyze and to interpret data, and to use engineering judgment to draw conclusions for the given cases related to project management life cycle;			

6. Acquire and apply contemporary issues and methods in PM with using appropriate learning strategies			
Relationship of the Course with the Student Outcomes		Level	Learning Outcome(s)
Student Outcomes		N=None S=Supportive H=High	Exam, Project, HW, Experiment, Presentation, etc.
(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics		H	1 Exam, Assignment, Term Project
(2) an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors			
(3) an ability to communicate effectively with a range of audiences		S	2 Term Project
(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts		H	3 Exam, Assignment, Project
(5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives		S	4 Term project
(6) an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions		H	5 Lab work, Assignment, Project
(7) an ability to acquire and apply new knowledge as needed, using appropriate learning strategies		H	6 Term Project
Prepared by and Date	Prof. Dr. Adem Karahoca / February 2021		
Semester	Spring 2020-2021		
Name of Instructor	Adem Karahoca		
Course Contents	Week	Topic	
	1.	Introduction to Project Management	
	2.	The Organizational Context: Strategy, Structure, and Culture	
	3.	Project Selection and Portfolio Management	
	4.	Leadership and the Project Manager	
	5.	Scope Management	
	6.	Project Team Building, Conflict, and Negotiation	
	7.	Risk Management	
	8.	Midterm Exam	
	9.	Cost Estimation and Budgeting	
	10.	Project Scheduling: Networks, Duration Estimation, and Critical Path	
	11.	Project Scheduling: Lagging, Crashing, and Activity Networks	
	12.	Advanced Topics in Planning and Scheduling: Agile and Critical Chain	
	13.	Resource Management	
	14.	Project Evaluation and Control	
	15.	Project Presentations	
	16.	Project Presentations	
Required/Recommended Readings	1. Project Management: Achieving Competitive Advantage, 5th Edition, ISBN 978-0-134-73033-2 by Jeffrey K. Pinto, published by Pearson Education © 2019 2. A Guide to the Project Management Body of Knowledge (PMBOK® Guide)–Sixth Edition by Project Management Institute series PMBOK® Guide		

Teaching Methods	Flipped Classroom, face to face, project-based learning
Homework and Projects	Assignment, Term Project
Laboratory Work	-
Computer Use	Required
Other Activities	In-class activities
Assessment Methods	Midterm Exams (50%), Term Project (25%), Quizzes (25%)
Course Administration	Instructor's office and phone number, office hours, email address: Prof.Dr. Adem Karahoca, 556, karahocaa@mef.edu.tr Rules for attendance: - Missing a quiz: Provided that proper documents of excuse are presented, each missed quiz by the student will be given a grade which is equal to the average of all of the other quizzes. No make-up will be given. Missing a midterm: Provided that proper documents of excuse are presented, a make-up exam will be given. Missing a final: Faculty regulations. A reminder of proper classroom behavior, code of student conduct: YÖK Regulations Statement on plagiarism: YÖK Regulations

ECTS Student Workload Estimation	Activity	No/Weeks	Hours			Calculation	Explanation
		No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
	Lecture	14	1	3	1	70	A*(B+C+D)
	Lab etc.					0	
	Midterm(s)	2	4	2	1	14	A*(B+C+D)
	Assignment, Project, Presentation	6	5	3	2	60	A*(B+C+D)
	Total Workload					144	
	Total Workload/25					5.76	
	ECTS					6	