

School of Engineering and Natural Sciences / Industrial Engineering (English)

2022 - 2023 Academic Year

PROJECT MANAGEMENT

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PROJECT MANAGEMENT	IND3268130	Spring Semester	3+0	3	6
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. Melis Almula KARADAYI				
Name of Lecturer(s)	Lect. Özgür EROL				
Assistant(s)					
Aim	In today's modern world, due to rapidly changing technology and increasing competition, companies and organizations are required to design new products and services. Both from an engineering and managerial point of view, there has been a huge demand for effective project management skills to manage the design and implementation of these new product and services. This has resulted in a rising emphasis on project management (PM) concepts. This course aims to provide effective project management skills and techniques for engineering students. Engineering students have in-depth knowledge in design, modelling, and implementation of engineering systems. Such systems usually emerge as complex projects. Therefore, project management tools and techniques will be essential for the professional success of our engineering students.				
Course Content	This course contains; Project Management related definitions and concept, Organizational structure, culture, strategy, managing project teams, effective project management approaches, Project Selection tools and methods, Defining the project, Estimating project time and costs, Developing a project risk management plan, Scheduling resources and cost, reducing project duration, Project progress and performance measurement and evaluation, Project closure activities, Special topics: Outsourcing and International Projects, Special topics: Agile Project Management, Final Project Presentations, Final Project Presentations, Final Project Presentations.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. To understand the strategic importance of project management in today's business environment and to learn about specific issues related to project management (Agile project management, Scrum, international project management, virtual project teams)				A, D, E	
2. Project proposals are written by defining project objectives and scope, and using analytical tools to choose between different project alternatives				A, D, E	
3. Develop a project management plan for cost, schedule, and project team and identify risks associated with the project				A, D, E	
4. Interpreting key project performance metrics; manage project closing activities				A, D, E	
5. Learning project success and failure factors through case studies				A, D, E	
6. Learning to use project management software				A, D, E	
Teaching Methods					
Assessment Methods			A: Written Exam, D: Project / Design, E: Quiz		
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Project Management related definitions and concept				
2	Organizational structure, culture, strategy, managing project teams, effective project management approaches				
3	Project Selection tools and methods				
4	Defining the project				
5	Estimating project time and costs				
6	Developing a project risk management plan				
7	Scheduling resources and cost, reducing project duration				
8	Project progress and performance measurement and evaluation				
9	Project closure activities				
10	Special topics: Outsourcing and International Projects				
11	Special topics: Agile Project Management				
12	Final Project Presentations				
13	Final Project Presentations				
14	Final Project Presentations				
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			

Resources
Course Materials: Course Notes, Slides, Newspaper clips, Business Articles (provided by the instructor) Textbook: Gray, C.F and E.W. Larson. Project Management: The Managerial Process, 7th ed. McGraw-Hill/Irwin, New York, NY (2018); Harvard Business Review Case Studies,