

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

**2023 - 2024 Academic Year**

**PROJECT MANAGEMENT**

**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
PROJECT MANAGEMENT	IND3268130	Spring Semester	3+0	3	6
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	English				
<b>Course Level</b>	First Cycle (Bachelor's Degree)				
<b>Course Type</b>	Elective				
<b>Course Coordinator</b>	Assoc.Prof. Melis Almula KARADAYI				
<b>Name of Lecturer(s)</b>	Assoc.Prof. Özge DOĞUÇ				
<b>Assistant(s)</b>					
<b>Aim</b>	This course aims to provide engineering students with effective project management skills in today's modern world, with rapidly changing technology and increasing competition. In this period when companies and organizations have to develop new products and services, it is aimed to teach how to manage project design and implementation from an engineering and management perspective. The course supports integrating knowledge of the design, modeling, and implementation of engineering systems with project management concepts. In this way, the tools and techniques necessary for professional success are explained, which develops skills in effectively planning, monitoring, and completing complex projects.				
<b>Course Content</b>	This course contains; Project Management related definitions and concept, Project Selection Methods, Organizational Structure, Company Culture and Project Management, Defining the project, Estimating project time and costs, Project plan development, Project risk management, Project resource and cost planning, Reducing Project Duration, Planning and Management of Project Workforce, Using Outsourcing for the Project and International Project Management, Project Monitoring, Performance Evaluation, Project Closure, Agile Project Management.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. Defines the strategic importance of project management in today's business environment and special topics related to project management (Agile project management, Scrum, international project management, virtual project teams).			10, 16, 19, 4, 9	A, F, G	
2. Defines project scope and, applies analytical tools to choose between different projects.			10, 16, 19, 4, 9	A, F, G	
3. Defines a project management plan for cost, schedule and project team and also evaluates the risks..			10, 16, 19, 4, 9	A, F, G	
4. Evaluates the key project performance measurements and defines project closing activities.			10, 16, 19, 4, 9	A, F, G	
5. Identifies the project success and failure factors through case studies.			10, 16, 19, 4, 9	A, F, G	
6. Uses a project management software.			6, 9	A, F, G	
<b>Teaching Methods</b>	10: Discussion Method, 16: Question - Answer Technique, 19: Brainstorming Technique, 4: Inquiry-Based Learning, 6: Experiential Learning, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, F: Project Task, G: Quiz				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Project Management related definitions and concept	Lecture Notes			
2	Project Selection Methods	Lecture Notes			
3	Organizational Structure, Company Culture and Project Management	Lecture Notes			
4	Defining the project	Lecture Notes			
5	Estimating project time and costs	Lecture Notes			
6	Project plan development	Lecture Notes			
7	Project risk management	Lecture Notes			
8	Project resource and cost planning	Lecture Notes			
9	Reducing Project Duration	Lecture Notes			
10	Planning and Management of Project Workforce	Lecture Notes			
11	Using Outsourcing for the Project and International Project Management	Lecture Notes			
12	Project Monitoring, Performance Evaluation	Lecture Notes			
13	Project Closure	Lecture Notes			
14	Agile Project Management	Lecture Notes			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		30			
General Exam		70			

<b>Resources</b>
Course Materials: Lecture Notes, Slides, Harvard Business Review Case Studies
Textbook: Gray, C.F and E.W. Larson. Project Management: The Managerial Process, 7th ed. McGraw-Hill/Irwin, New York, NY (2018)