Course number and name	END 339 / Project Management	
Credits, contact hours, categorization of credits	3 credits / 42 hours / Engineering topic	
Instructor or course coordinator	Ayberk SOYER, Ayşe Elvan BAYRAKTAROĞLU	
Text book and other supplemental materials	 Kerzner, H. (2017). "Project Management: A systems Approach to Planning, Scheduling, and Controlling", 12th ed., John Wiley & Sons, Hoboken, NJ. Project Management Ins. (2013), "A Guide to the Project Management Body of Knowledge", PMBOK Guide, Newtown Square, Pennsylvania, USA. MS Project 	

Course information			
Content	Main Stages of Project Management, Project Management Techniques, Computer Aided Project Management.		
Prerequisites	None		
Type	Selected elective		

Course learning outcomes

Students who pass the course will have knowledge about:

- I. Preparation and evaluation of project proposals.
- II. Main stages of project management.
- III. Project scheduling techniques.IV. MS Project program.
- V. Team management and conflict management in projects.
- VI. Project organization structures.
- VII. Project crashing.

Student outcomes	Level of contribution
SO1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	Partial
SO2. 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.	Partial
SO3. An ability to communicate effectively with a range of audiences.	Partial
SO4. 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.	Partial
SO5. 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.	High
SO6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.	Partial
SO7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	Partial

Week	Topics	Learning outcome(s)
1	Project Definition, Preparation and Evaluation of Project Proposals, Phases of Project Planning	I, II,
2	Main Stages of Project Management-I	II
3	Main Stages of Project Management-II	II
4	Main Stages of Project Management-III	II
5	Arrow Diagrams	III
6	Critical Path Method (CPM)	III
7	Program Evaluation and Review Technique (PERT)	III
8	Block Diagrams	III
9	Computer Aided Project Management (MS Project Application)	IV
10	Team Management and Conflict Management in Projects	V
11	Project Organization Structures	VI
12	Linear Programming at Determination of Improvement Cost and Critical Time	VII
13	Project Crashing	VII
14	Term Project Presentations	I, II, III, IV, V, VI, VII