

Course number and name	END 488 / ERP Processes and Installation
Credits, contact hours, categorization of credits	3 credits / 42 hours / Engineering topic
Instructor or course coordinator	Cemil CEYLAN
Text book and other supplemental materials	<ul style="list-style-type: none"> • Managerial Issues of Enterprise Resource Planning Systems, McGraw-Hill, Inc. New York, NY, USA, 2004. • Caserio, C. & Trucco, S. (2018). Enterprise Resource Planning and Business Intelligence Systems for Information Quality: An Empirical Analysis in the Italian Setting. • Integrated Business Processes with ERP Systems 1st Edition, by Simha R. Magal (Author), Jeffrey Word.

Course information	
Content	Identification of the processes used in Enterprise Resource Planning software and the application of these processes in organization will be explained with examples. As it is known, Enterprise Resource Planning is an integrated system, and it is essential that the flow of information between processes must be defined correctly. These definitions will be made. In addition, the selection of ERP software and their approach to organizational suitability will be defined.
Prerequisites	None
Type	Selected elective

Course learning outcomes
<p>Students who pass the course will be able to learn:</p> <ol style="list-style-type: none"> I. the business processes in an organization II. how business processes are defined on software III. the working principles of ERP systems are learned IV. ERP Selection Process V. the methods of ERP Integration

Student outcomes	Level of contribution
SO1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	Little
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.	Not applicable
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.	Not applicable
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.	Little
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.	Little

Week	Topics	Learning outcome(s)
1	Enterprise Resource Planning Systems	III, IV
2	ERP Modules and Historical Development	III
3	ERP System Options and Selection Methods	IV
4	Business Process Reengineering and Best Practices	I, II, III
5	Business Process Reengineering and Best Practices	I, II, III
6	Business Process Reengineering and Best Practices	I, II, III
7	ERP System Installation	V
8	ERP Project Management	III, IV, V
9	ERP Project Management	III, IV, V
10	ERP Implementation and Maintenance	III, IV, V
11	Business Intelligence Systems and ERP	I, II, III
12	ERP Software Selection Criteria	IV, V
13	Advanced Technology and ERP Security	IV, V
14	Trends in ERP	IV, V