Course number and name	END 357 / Management Informations Systems
Credits, contact hours, categorization of credits	3 credits / 42 hours / Engineering topic
Instructor or course coordinator	Ufuk CEBECİ
Text book and other supplemental materials	• <i>Management Information Systems: Managing the Digital</i> <i>Firm</i> , Jane Laudon, Kanneth Laudon, Prentice Hall, 2018.

Course information			
Content	Basic terminology, data, information, knowledge, Information Systems in Global Business Today, Global E-Business: How Businesses Use Information Systems, Information System, Organisations, and Strategy, Enterprise Information Systems : MRP, MRP II, ERP, MRP, MRP II, ERP, CRM, SCM, Electronic Commerce, Knowledge Management, Databases and data warehouse, Enhancing Decision Making, Enterprise Reporting, Decision Support Systems, Building Information Systems, Ethical and Social Issues in Information Systems.		
Prerequisites	END 211 / END 215 System Thinking and Analysis and END 213 Data Processing in Industrial Systems		
Туре	Selected elective		

## **Course learning outcomes**

Students who pass the course will:

- I. Know the main concepts about Information systems
- II. Have knowledge about basic MIS applications
- III. Have insight about reports and decision supports systems
- IV. Be able to define MIS needs using system analysis
- V. Be able to design databases based on defined requirements
- VI. Have insight about applications from different sectors
- VII. Have insight about upcoming topics and applications

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.	High
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.	High
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.	High

Week	Topics	Learning outcome(s)
1	Course Introduction, basic terminology, data, information, knowledge	I, II
2	Information Systems in Global Business Today	I, IV
3	Global E-Business: How Businesses Use Information	I, II
	Systems	
4	Information System, Organisations, and Strategy	IV, V
5	Enterprise Information Systems : MRP, MRP II, ERP	IV, V
6	Enterprise Information Systems : CRM, SCM	IV, V
7	Electronic Commerce	IV
8	Knowledge Management	III, IV
9	Databases and data warehouse	III, VI
10	Enhancing Decision Making	VI, VII
11	Enterprise Reporting	VI, VII
12	Decision Support Systems	VII
13	Building Information Systems	VII
14	Ethical and Social Issue in Information Systems	VII