COURSE PROFILE

Course Name	Code	Semester	Term	Theory+PS+Lab (hour/week)	Local Credits	ECTS
Principles of MIS	MIS 517	Fall	2	3 + 0 + 0	3	8

Prerequisites	None

Course Language	English
Course Type	Departmental Elective
Course Lecturer	Assoc. Prof. Vedat Coşkun
Course Assistant	Büşra Özdenizci
Course Objectives	This course introduces the concept of information systems (IS), and approaches to designing, managing, and organizing IS. In particular, this course focuses on information collection, the decision-making process, and artificial intelligence, using class lectures, case studies, and case presentations. At the completion of this course, students should know: • the definition of a management information system and the various components of an MIS. • how to collect and manage useful data and information, and to understand how information travels through wires, cables, and open space. • the Systems Development Life Cycle (SDLC). • how information systems influence the decision making process. • how an information systems integrates a business.
Course Learning Outcomes	Upon successful completion of the course, students will be able to: • understand how real, contemporary companies use IS • highlight the importance of IS in every facet of business: Industry Analysis • comprehend topics for discussion on ethics • connect IS concepts to the business world • familiarize with Electronic Commerce Systems, E-Business decision support and enhancing decision making
Course Content	Foundations of Information Systems in Business . Global E-Business and Collaboration. Information Systems, Organizations, and Strategy. Ethical and Social Issues in Information Systems. IT Infrastructure and Emerging Technologies. Foundations of Business Intelligence. Telecommunications, the Internet, and Wireless Technology. Securing Information Systems. E-Commerce. The Internet-worked E-Business Enterprise Electronic Business Systems. E-Business Decision Support. Managing Knowledge. Enhancing Decision Making.

COURSE CONTENT

Week	Subjects	Related
1	Foundations of Information Systems in Business Information Systems in Global Business Today	
2	Global E-Business and Collaboration	
3	Information Systems, Organizations, and Strategy	
4	Ethical and Social Issues in Information Systems	
5	IT Infrastructure and Emerging Technologies	
6	Foundations of Business Intelligence: Databases and Information Management	
7	Telecommunications, the Internet, and Wireless Technology	
8	Securing Information Systems	
9	E-Commerce: Introduction	
10	E-Commerce: Digital Markets, Digital Goods	
11	The Internet-worked E-Business Enterprise Electronic Business Systems	
12	E-Business Decision Support	
13	Managing Knowledge	
14	Enhancing Decision Making	

Course Textbook	Information Systems Today: Managing in the Digital World, 6/E Joseph Valacich, Christoph Schneider, ©2014, Prentice Hall
Recommended References	Management Information Systems: Managing the Digital Firm, 13/E, Kenneth C. Laudon, Jane P. Laudon, Azimuth, ©2014, Prentice Hall

Semester Requirements	Number	Percentage of Grade
Attendance/Participation		
Laboratory		
Application		
Special Course Internship (Work Placement)		
Quizzes/Studio Critics		
Homework Assignments		15
Presentation		
Project		
Seminar/Workshop		
Midterms/Oral Exams		35
Final/Resit Exam		50
Total		100

PERCENTAGE OF SEMESTER WORK		50
PERCENTAGE OF FINAL WORK		50
Total		100

Course Category	Core Courses	
	Major Area Courses	X
	Supportive Courses	
	Media and Management Skills Courses	
	Transferable Skill Courses	

COURSE'S CONTRIBUTION TO PROGRAM

#	Program Qualifications / Outcomes	* Level of Contribution				
		1	2	3	4	5
1	An ability to use the theoretical and applied foundations in mathematics and basic sciences acquired in the undergraduate level to the solutions of problems in information technology area					X
2	An ability to analyze a graduate level problem, identify and define the computing requirements appropriate to its solution, to understand, select and use appropriate technology, tools, standards, protocols, building blocks, and components to solve the problem					X
3	An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, information systems etc. to solve graduate level information technology problems			X		
4	An ability to analyze and communicate local and global impact of computing on individuals, organizations and society; and the ability to apply information technology techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies	X				
5	An ability to effectively communicate in oral and written media with all kinds of related audiences, prepare documentation for this purpose; and acquire academic writing skills in a foreign language	X				
6	An ability to understand and teach professional, ethical, legal, and social issues and responsibilities of information technology profession and research		X			
7	An ability to gain knowledge and conduct research on topics inside and outside the requirements of the information technology profession, and the ability to lead and work within heterogeneous teams of people from different research areas to accomplish interdisciplinary research		X			
8	An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information technology research					

*1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

Activities	Number	Duration (Hours)	Total Workload
Course Hours (Including Exams)	14	3	42
Tutorials			
Laboratory			
Application			
Special Course Internship (Work Placement)			
Field Work			
Study Hours Out of Class	14	5	70
Presentations / Seminar			
Project			
Preparatory reading	14	6	84
Homework Assignments	3	3	9
Quizzes			
Midterm Exams	1	2	2
Final / Resit Exam	1	2	2
		Total Workload	209

COURSE CATEGORY

ISCED GENERAL AREA CODES	GENERAL AREAS	ISCED BASIC AREA CODES	BASIC EDUCATIONAL AREAS	
1	Education	14	Teacher Training and Educational Sciences	
2	Humanities and Art	21	Art	
2	Humanities and Art	22	Humanities	
3	Social Sciences, Management and Law	31	Social and Behavioural Sciences	40
3	Social Sciences, Management and Law	32	Journalism and Informatics	
3	Social Sciences, Management and Law	38	Law	
4	Science	42	Life Sciences	
4	Science	44	Natural Sciences	
4	Science	46	Mathematics and Statistics	20
4	Science	48	Computer	40
5	Engineering, Manufacturing and Civil	52	Engineering	
5	Engineering, Manufacturing and Civil	54	Manufacturing and Processing	
5	Engineering, Manufacturing and Civil	58	Architecture and Structure	
6	Agriculture	62	Agriculture, Forestry, Livestock, Fishery	
6	Agriculture	64	Veterinary	
7	Medicine and Welfare	72	Medical	
7	Medicine and Welfare	76	Social Services	
8	Service	81	Personal Services	
8	Service	84	Transport Services	
8	Service	85	Environment Protection	
8	Service	86	Security Services	