OSTIM TECHNICAL UNIVERSITY
FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES
BUSINESS ADMINISTRATION DEPARTMENT
COURSE SYLLABUS FORM

MIS 131 Management Information Systems							
Course Name	**Course Code**	**Period**	**Hours**	**Application**	**Laboratory**	**Credit**	**ECTS**
Management Information Systems	MIS 131	1	3	0		3	4

Language of Instruction	English
Course Status	Compulsory
Course Level	Bachelor
Learning and Teaching Techniques of the Course	Lecture, Question-Answer, Videos and Case Studies

Course Objective

The aim of this course is to understand the importance of basic concepts of management information systems in the business world, to understand how the business world uses management information systems and infrastructures, and to recognize the usage areas of management information systems in businesses.

Learning Outcomes

Upon successful completion of this course, a student will be able to:

1. understand the basic concepts of management information systems
2. explore the usage areas of management information systems in business life
3. evaluate the role of information systems in today's competitive business environment
4. assess the relationship between the digital firm and information systems
5. have knowledge on subjects such as business intelligence, databases, information management, internet and telecommunication technology, E-commerce, project management
6. identify the major management challenges to building and using information systems in organizations
7. understand how an information system can solve a business problem

Course Outline
The course starts with an introduction to management information systems and the importance of systems in achieving organizational goals. Topics include how to develop and maintain information systems to gain competitive advantage, to solve business problems, and to improve decision making. Then basics of computers, information systems technologies and communication technologies. This is followed by overview of different types of information systems. The term is completed by in-depth exploration of current trend in the information systems field.

Weekly Topics and Related Preparation Studies		
Weeks	**Topics**	**Preparation Studies**
1	Introduction, Information Systems in Global Business Today (Laudon and Laudon, Chap.1)	1. Information systems and dimensions 2. Transformation of businesses by information systems 3. Management, organization and technology components 4. Sociotechnical systems
2	Global E-Business and Collaboration (Laudon and Laudon, Chap. 2)	5. Business processes 6. Information systems' effect on business processes 7. Systems for different management groups 8. E-business, e- commerce, e-government 9. Collaboration and social business
3-4	Information Systems, Organizations, and Strategy (Laudon and Laudon, Chap. 3)	10. Organization 11. Feature of organizations 12. Porter's Competitive Forces Model 13. Information strategies for dealing with competitive forces 14. Sustaining competitive advantages 15. The Business Value Chain 16. Core competencies 17. Aligning IT with business objectives
5-6	Ethical and Social Issues in Information Systems (Laudon and Laudon, Chap. 4)	18. A model for thinking about ethical, social, and political issues 19. Key technology trends that raise ethical issues 20. Basic concepts: responsibility, accountability, and liability 21. Ethical analysis 22. Information rights: Privacy and freedom in the Internet Age 23. Property Rights: Intellectual Property 24. System quality
7	IT Infrastructure and Emerging Technologies (Laudon and Laudon, Chap. 5)	25. Defining IT Infrastructure 26. Components of IT infrastructure 27. Current trends in computer hardware platforms 28. Quantum computing, virtualization, Cloud Computing

		29. Current trends in computer software platforms 30. Challenges of managing IT infrastructure and management solutions
8	**MIDTERM EXAM**	
9	Foundations of Business Intelligence: Databases and Information Management (Laudon and Laudon, Chap. 6)	31. The problems of managing data resources in a traditional file environment 32. Major capabilities of database management systems (DBMS), 33. Relational DBMS 34. Principal tools and technologies for accessing information 35. Information policy, data administration, and data quality
10-11	Telecommunications, the Internet, and Wireless Technology (Laudon and Laudon, Chap. 7)	36. Principal components of telecommunications networks and key networking technologies 37. Types of networks 38. Internet and Internet technology principles, and their support to communication and e-business 39. Principal technologies and standards for wireless networking, communication, and Internet access
12	Securing Information Systems (Laudon and Laudon, Chap. 8)	40. Vulnerabilities of information systems to destruction, error, and abuse 41. Business value of security and control 42. Components of an organizational framework for security and control 43. Most important tools and technologies for safeguarding information resources
13	Achieving Operational Excellence and Customer Intimacy: Enterprise Applications (Laudon and Laudon, Chap. 9)	44. Enterprise systems 45. Supply chain management systems 46. Customer relationship management systems 47. Challenges and advantages of enterprise applications
14-15	E-Commerce: Digital Markets, Digital Goods (Laudon and Laudon, Chap. 10)	48. Features of e-commerce, digital markets, and digital goods 49. Principal e-commerce business and revenue models 50. Business-to-business transactions 51. m-commerce applications
16	**FINAL EXAM**	

Textbook(s)/References/Materials:
Textbook: Management Information Systems – Managing the Digital Firm. Kenneth C. Laudon and Jane P. Laudon. Pearson Prentice Hall Publishers. 16th Global Edition. 2020.

Supplementary References:
Other Materials:

Assessment		
Studies	**Number**	**Contribution margin (%)**
Attendance		
Lab		
Class participation and performance		
Field Study		
Course-Specific Internship (if any)		
Quizzes / Studio / Critical		
Homework	1	20
Presentation		
Projects		
Report		
Seminar		
Midterm Exam/Midterm Jury	**1**	**30**
General Exam / Final Jury	**1**	**50**
Total		**100**
Success Grade Contribution of Semester Studies		**50**
Success Grade Contribution of End of Term		**50**
Total		**100**

ECTS / Workload Table			
Activities	**Number**	**Duration (Hours)**	**Total Workload**
Course hours (Including the exam week): 16 x total course hours)	16	3	48
Laboratory			
Application	16	1	16
Course-Specific Internship (if any)			
Field Study			
Study Time Out of Class	16	2	32
Presentation / Seminar Preparation			
Projects			
Reports			
Homework			
Quizzes / Studio Review			
Preparation Time for Midterm Exams / Midterm Jury	**1**	**10**	**10**
Preparation Period for the Final Exam / General Jury	**1**	**20**	**20**
Total Workload	**(126/30 = 4,20)**		**126**

Course' Contribution Level to Learning Outcomes						
Nu	**Learning Outcomes**	**Contribution Level**				
		1	**2**	**3**	**4**	**5**
LO1	to understand the basic concepts of management information systems					X
LO2	to explore the usage areas of management information systems in business life					X
LO3	to evaluate the role of information systems in today's competitive business environment					X
LO4	to assess the relationship between the digital firm and information systems					X
LO5	to have knowledge on subjects such as business intelligence, databases, information management, internet and telecommunication technology, E-commerce, project management					X
LO6	to identify the major management challenges to building and using information systems in organizations					X
LO7	to understand how an information system can solve a business problem					X

	Relationship Between Course Learning Outcomes and Program Competencies (Department of Management Information Systems)								
Nu	**Program Competencies**	**Learning Outcomes**							**Total Effect (1-5)**
		LO1	**LO2**	**LO3**	**LO4**	**LO5**	**LO6**	**LO7**	
1	Recognize and distinguish the basic concepts such as data, information, and knowledge in the field of Management Information Systems and know the processes to be followed for data acquisition, storage, updating, and security.	x	x	x	x	x	x	x	**5**
2	Develop and manage databases suitable for collecting, storing, and updating data.					x			**2**
3	As a result of his/her ability to think algorithmically, and easily find solutions to problems concerning basic business functions.								
4	Learn programming logic, and have information about current programming languages.								
5	Be able to use up-to-date programming languages.								
6	Be able to take part in teamwork or lead a team using knowledge of project management processes.								
7	Know ethical and legal rules, and use professional field knowledge within the scope of ethical and legal rules.								
8	Know the fundamental areas of business administration namely management and organization, production, finance, marketing, numerical methods, accounting, etc., and have the knowledge and skills to work in-depth in at least one of them.								
9	Be able to solve the problems encountered in the field of internet programming by designing web applications.							x	**3**
10	Develop and manage logistics and supply chain management activities								
11	Adapt his/her theoretical knowledge and the experience he/she will gain through practice at the departments of businesses such as information technologies, R&D, and management to real life.	x	x	x	x	x	x	x	**5**
12	Be able to develop strategies that will	x	x	x	x	x	x	x	**5**

	provide a competitive advantage with his/her advanced knowledge of management strategies and management functions.								
13	Develop a business idea, commercialize the business idea, and design and manage his/her venture using entrepreneurial knowledge.								
14	By using English effectively, they can follow, read, write, speak and communicate universal information in the field of management information systems in a foreign language with professional competence.								
Total Effect									**20**

Policies and Procedures

Web page: https://www.ostimteknik.edu.tr/management-information-systems-english-1241/915

Exams: The exams aim at assessing various dimensions of learning: knowledge of concepts and theories and the ability to apply this knowledge to real-world phenomena, through analyzing the situation, distinguishing problems, and suggesting solutions. The written exams can be of two types, ie. open-ended questions, which can also be in the form of problems or multiple-choice questions.

Assignments: Homework (Assignments) might be applicable. Scientific Research Ethics Rules are very important while preparing assignments. The students should be careful about citing any material used from outside sources and reference them appropriately.

Missed exams: Any student missing an exam needs to bring an official medical report to be able to take a make-up exam. The medical report must be from a state hospital.

Projects: Not applicable.

Attendance: Attendance requirements are announced at the beginning of the term. Students are usually expected to attend at least 70% of the classes during each term.

Objections: If the student observes a material error in his/her grade, he/she has the right to place an objection to the Faculty or the Department. The claim is examined and the student is notified about its outcome.