GAU, Faculty of Engineering

Course Unit Title	Management Information Systems
Course Unit Code	CEN480
Type of Course Unit	Elective, computer engineering students
Level of Course Unit	4thYear BSc
National Credits	3
Number of ECTS Credits Allocated	6 ECTS
Theoretical (hour/week)	3
Practice (hour/week)	0
Laboratory (hour/week)	0
Year of Study	4
Semester when the course unit is delivered	7
Course Coordinator	Ezgi Deniz Ülker
Name of Lecturer (s)	Ezgi Deniz Ülker
Name of Assistant (s)	
Mode of Delivery	Face to Face, Laboratory Experiments,
Language of Instruction	English
Prerequisities and co-requisities	
Recommended Optional Programme Components	Basic bacground in computer systems

Objectives of the Course:

- Analyze how IT can be used more effectively to improve businesses
- Learn how knowledge of IT tools can be applied for solving management problems
- Get an insight for engineers about management

Learning Outcomes

When this course has been completed the studentshould be able to		Assesment.
1	Explain why Information Systems are essential in Businesses today	1
2	Asses the role that Information Systems function	1
3	Identify and describe important features of organizations using Information System	1,2
4	Evaluate tools and technologies for providing information databases to improve business performance and decision making	1,2
5	Demonstrate how systems achieve operational excellence by integration of IT	1,3
6	Describe the various types of e-commerce	1,2

Assesment Methods: 1. Written Exam, 2. Assignment 3. Project/Report, 4.Presentation, 5 Lab. Work

Course's Contribution to Program

		CL
1	Ability to understand and apply knowledge of mathematics, science, and engineering	2
2	Ability to design and conduct experiments as well as to analyze and interpret data	3
3	Ability to work in multidisciplinary teams while exhibiting professional responsibility and ethical conduct	3
4	Ability to apply systems thinking in problem solving and system design	4
5	Knowledge of contemporary issues while continuing to engage in lifelong learning	2
6	Ability to use the techniques, skills and modern engineering tools necessaryfor engineering practice	1
7	Ability to express their ideas and findings, in written and oral form	4
8	Ability to design and integrate systems, components or processes to meet desired needs within realistic constraints	3
9	Ability to approach engineering problems and effects of their possible solutions within a well structured, ethically responsible and professional manner	2
10	Ability to apply design and development principles in the construction of software systems	2
11	Ability to find appropriate technical information to solve computer engineering problems	1

CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate 4: High, 5:Very High)

Course Contents

Week			Exams
1		Introduction	
2		Information Age	
3		Strategic and Competitive Opportunities	
4		Databases and Data Warehouses	
5		Electronic Commerce	Quiz
6		Review for Midterm	
7			Midterm
8		Systems Development	
9		IT Infrastructures	
10		Protecting People and Information	
11		Emerging Trends and Technologies	Quiz
12		Review for the whole course	
13		Projects	
14		Projects	
15			Final

Recommended Sources

Textbook: Management Information Systems for the Information Age, Haag, Cummings, Phillips, McGrawHill, 8th edition (Other editions are also useful)

Supplementary Material (s): Management Information Systems-Managing the Digital Firm, Laudon, Laudon, Prentice Hall, 3rd Edition

Assessment

Attendance	5%	
Project	10%	
Midterm Exam	30%	Written Exam
Quiz	15%	Written Exam
Final Exam	40%	Written Exam
Total	100%	

ECTS Allocated Based on the Student Workload

Activities	Number	Duration (hour)	Total Workload(hour)
Course duration in class (including the Exam week)	14	3	42
Labs and Tutorials			
Assignments	7	4	28
Project/Presentation/Report Writing	1	15	15
E-learning Activities			
Quizzes	2	12	24
Midterm Examination	1	15	15
Final Examination	1	22	22
Self Study	14	2	28
Total Workload			174
Total Workload/30 (h)			5.8
ECTS Credit of the Course			6