Course Description	
Course Code	YS 419
Course Name	SYSTEM ANALYSIS
Prerequisite Courses	
Language of the Course	The English
Course Coordinator	
Instructor(s)	
Course Assistants	
The aim of the course	In this course, the students will be learning fundamental concepts of system analysis and design to achieve clues about the application of these techniques to real-world problems.
Course Content	System Analysis, Information Systems

Weekly Course Content	
Week 1	What is a system?
Week 2	System models
Week 3	System analysis
Week 4	Information systems
Week 5	Information system on a computer
Week 6	The tools that used for the development of information systems
Week 7	Database design and management
Week 8	Midterm exam.
Week 9	Communication techniques
Week 10	System planning
Week 11	System searching
Week12	Dataset planning
Week 13	Database planning
Week 14	Project management
Week 15	Final exam.

Course Learning Outcomes	
1	Problem Definition and Solution Principles in Information Systems
2	System Development Life Cycle
3	System Design and Application
4	IT Systems Development Phases and System Analysis
5	User Interfaces, database design and implementation
6	System Analysis Tools

Contribution of the Course to Program Qualifications		Contribution Level
01	The student will have the ability to apply analytical approach, mathematics and science knowledge in software and engineering issues.	4
02	The student will have the ability to identify, define, formulate and solve a problem in software and computer systems.	4
03	The student will have gains scientific research skills in software and engineering problems, has the ability to design a system, part or process.	4
04	The student will have the ability to use the design capability, techniques and tools required for engineering applications.	4
05	The student will have the ability to design, implement and interpret experimental work and software projects by analyzing the results.	4
06	The student will have the ability to work between disciplines and teamwork.	4
07	The student will have the ability to work in international environments and adapt to different cultures.	4
08	The student will have verbal and written communication skills in Turkish and English.	4
09	The student will have the awareness of the necessity of lifelong learning and the ability to realize it.	5
10	The student will gain knowledge of legal issues with the awareness of professional and ethical responsibility.	4
11	The student will have managerial skills (leadership, organization, time and risk management, quality awareness, efficiency, etc.).	5
12	The student will have the ability to participate in social activities, to acquire regular sports habits and to use time in the best way.	5
13	The student will have the ability to find unusual ways and produce projects.	4
14	The student will have professional self-confidence, being an entrepreneur and taking initiative.	4
15	It is sensitive about the problems of the age and looks after the national interests.	4

ECTS WORKLOAD			
	Number	**Duration (hours)**	**Number*Duration**
Face to face education	14	2	28
Out-of-class study time (pre-study, reinforcement)	14	1	14
Homeworks	0	0	0
Presentation / Seminar preparation	0	0	0
Quizzes	0	0	0
Preparation for midterm exams	0	0	0
midterm exams	1	2	2
Project (Semester assignment)	0	0	0
Lab	0	0	0
field work	0	0	0
Preparation for the final exam	0	0	0
Semester final exam	1	2	2
Research	2	10	20
TOTAL WORKLOAD			**76**
ECTS			**3**

Evaluation		
SEMESTER EVALUATION	**Number**	**Contribution Percentage**
Midterm	1	40
Quiz	0	0
Homework	0	0
SEMESTER TOTAL		**40**
Contribution rate of mid-term evaluations to success		40
Contribution rate of the final exam to success		60
GRAND TOTAL		**100**

RESOURCES	
Textbook	Systems Analysis and Design Methods by Jeffrey L. Whitten and Lonnie D. Bentley, McGraw-Hill, 2005.
Helpful Resources	Yönetim Bilgi Sistemleri, Hadi Gökçen, EPİ Yayıncılık 2002. Sistem Analizi, Doç. Dr. Haluk Erkut, Kıyı Yayınları 1989.