

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
SYSTEMS ANALYSIS and DESIGN	MIS3112175	Fall Semester	3+0	3	4
Prerequisites Courses					
Recommended Elective Courses	Process Analysis				
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Prof.Dr. Gökhan SİLAHTAROĞLU				
Name of Lecturer(s)	Assist.Prof. Onur KARDEŞ				
Assistant(s)	None				
Aim	To provide students with information about the system development life cycle for partial or radical information system changes for any sector, institution or organization.				
Course Content	This course contains; Information Systems Analysis and Design - System Concept - Tasks and Features of System analyst, System Development Life Cycle Phases - General Characteristics of System Development Life Cycle Phases, Planning Stage - Financial Feasibility - Cultural Feasibility, Legal feasibility Corporate feasibility Time Planning, Personnel planning in information projects - Initiation of information systems projects - Basic concepts of analysis, System requirements - Analysis of technical, physical, user, system interfaces, data and security requirements, Methods of collecting information - Survey - Face-to-face interview, Obtaining information through observation - Examination of printed document, Creation of analysis reports - Basic components of the design house, Network design - Database design, User Interface Design, Designing system components - Event Tables - Using workflow diagrams - Application Components, Encoding components - Test methods, Management and implementation of documentation activities.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Will be able to list the stages of SGYD.			16, 9	A, F	
1.1. Lists the tasks to be done in planning					
1.2. Lists the work to be done in the analysis					
1.3. Lists the work to be done in the design phase					
1.4. Lists the parts of the Support Phase.					
2. Will be able to make Feasibility Reports.			16, 9	A, F	
2.1. Explains the concept of ROI					
2.2 Defines the break-even point.					
3. Will be able to examine the processes of the analysis phase.			2, 9	A, F	
3.1. Explains the Importance of Customer Needs.					
3.2. Lists system requirements					
4. Will be able to examine the processes of the design phase.			2	A, F	
4.1. Designs simple interface.					
4.2. Creates Database Schemas					
4.3. List the user interface types.					
5. Will be able to examine the stages of the application process and shape the application.			14	A, F	
5.1. List the stages of coding.					
5.2. List the types of go-live					
Teaching Methods	14: Self Study Method, 16: Question - Answer Technique, 2: Project Based Learning Model, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, F: Project Task				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Information Systems Analysis and Design - System Concept - Tasks and Features of System analyst				
2	System Development Life Cycle Phases - General Characteristics of System Development Life Cycle Phases	To prepare and be ready to present the relevant part of the project.			
3	Planning Stage - Financial Feasibility - Cultural Feasibility	To prepare and be ready to present the relevant part of the project.			
4	Legal feasibility Corporate feasibility Time Planning	To prepare and be ready to present the relevant part of the project.			
5	Personnel planning in information projects - Initiation of information systems projects - Basic concepts of analysis	To prepare and be ready to present the relevant part of the project.			
6	System requirements - Analysis of technical, physical, user, system interfaces, data and security requirements	To prepare and be ready to present the relevant part of the project.			
7	Methods of collecting information - Survey - Face-to-face interview				
8	Obtaining information through observation - Examination of printed document	To prepare and be ready to present the relevant part of the project.			
9	Creation of analysis reports - Basic components of the design house	To prepare and be ready to present the relevant part of the project.			
10	Network design - Database design	To prepare and be ready to present the relevant part of the project.			
11	User Interface Design	To prepare and be ready to present the relevant part of the project.			
12	Designing system components - Event Tables - Using workflow diagrams - Application Components	To prepare and be ready to present the relevant part of the project.			
13	Encoding components - Test methods	To prepare and be ready to present the relevant part of the project.			
14	Management and implementation of documentation activities	To prepare and be ready to present the relevant part of the project.			
Evaluation Methods		Weight(%)			
(Midterm Exam) Project for Midterm		100 % of Midterm. (i.e. all 40%)			
Midterm Exam		40			

General Exam

60

Resources

1. Systems Analysis and Design --- Kindle Edition

by Kenneth E. Kendall (Author), Julie E Kendall (Author)

2. Systems Analysis and Design 9th Edition

by Kenneth Kendall (Author), Julie Kendall (Author)Bilgisayar ve Yazılım Mühendisliğinde SİSTEM ANALİZİ ve TASARIMI, GÖKHAN SİLAHTAROĞLU, PAPATYA YAYINCILIK.

Systems Analysis & Design by ALAN DENNIS

Indiana University

BARBARA HALEY WIXOM

University of Virginia

ROBERTA M. ROTH

University of Northern Iowa