

FACULTY OF BUSINESS ADMINISTRATION OFFICE OF THE DEAN

COURSE / MODULE / BLOCK DETAILS

ACADEMIC YEAR / SEMESTER

<b>Offered by:</b> BUSINESS ADMINISTRATION			
<b>Course Title:</b> SYSTEMS ANALYSIS AND DESIGN		<b>Course Org. Title:</b> SYSTEMS ANALYSIS AND DESIGN	
<b>Course Level:</b> Bachelor's Degree		<b>Course Code:</b> QMT 4111	
<b>Language of Instruction:</b> English		<b>Form Submitting/Renewal Date</b> 23/09/2020	
<b>Weekly Course Hours:</b> 3		<b>Course Coordinator:</b> PROF.DR. SABRİ ERDEM	
<b>Theory</b>	<b>Application</b>	<b>Laboratory</b>	<b>National Credit:</b> 3
3	0	0	<b>ECTS Credit:</b> 5



DOKUZ EYLUL UNIVERSITY



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Offered to:	Course Status: Compulsory/Elective
Name of the Department:	
BUSINESS ADMINISTRATION	Elective Course

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Instructor/s:

PROF.DR. SABRİ

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**Course Objective:**

The objective of this course is to introduce the fundamentals of systems analysis and design and provide the ability of usage of its tools.

**Learning Outcomes:**

- 1 Understand types of computer-based systems that a systems analyst needs to address and realize what the main roles of the systems analyst are.
- 2 Plan a project by identifying activities and scheduling them.
- 3 Design and administer effective questionnaires.
- 4 Learn the importance of values critical to agile modeling.
- 5 Create, use, and explode DFDs and ERDs to capture and analyze the current system through parent and child levels.
- 6 Create data dictionary entries for data processes, stores, flows, structures, and logical and physical elements of the systems being studied, based on DFDs.
- 7 Construct a database for an information system.
- 8 Design tabular and graphic output and input displays for users of information systems.

**Learning and Teaching Strategies:****1. Lecture**

Lectures are supported by related concepts and class discussions.

**2. Project**

Projects covering all topics are prepared during the semester.

**3. Presentation**

Projects are presented and discussed at the end of the semester.

**Assessment Methods:**

Name	Code	Calculation formula
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**Further Notes about Assessment Methods:****1. Project**

Projects covering all topics are prepared during the semester and presented at the end of the semester by students



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2. Assignments

Weekly assignments are delivered to the students.

Assessment Criteria:

1. Projects, assignments, homeworks and reports should be complete and submitted on time.
2. Students should demonstrate their individual knowledge and ability during presentations and discussions.
3. Reports and homework papers should be prepared according to specific academic format, i.e., APA.

Textbook(s)/References/Materials:

1. Systems Analysis and Design, Kenneth E. Kendall, Julia E. Kendall, 8th Edition, 2011, Prentice Hall.
2. Essentials of Systems Analysis and Design, Joseph S. Valacich Joey F. George Jeffrey A. Hoffer, 4th Edition, 2009, Prentice Hall.

Course Policies and Rules:

1. Regular participation is expected.
2. Plagiarism of any type will result in disciplinary action.

Contact Details for the Instructor:

Office Hours:



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## ACADEMIC YEAR / SEMESTER

Course Outline:		
Week	Topics:	Notes:
1	Systems, roles and development methodologies	Lecture notes, Kendall (Systems Analysis and Design)
2	Understanding and modeling organizational systems	Lecture notes, Kendall (Systems Analysis and Design)
3	Project management	Lecture notes, Kendall (Systems Analysis and Design)
4	Information gathering, Agile modeling and prototyping	Lecture notes, Kendall (Systems Analysis and Design)
5	Using data flow diagrams	Lecture notes, Kendall (Systems Analysis and Design)
6	Analyzing systems using data dictionaries, Describing process specifications and structured decisions	Lecture notes, Kendall (Systems Analysis and Design)
7	Designing effective output and input , Human-computer interaction	Lecture notes, Kendall (Systems Analysis and Design)
8	Designing databases	Lecture notes, Kendall (Systems Analysis and Design)
9	Object-oriented systems analysis and design using UML	Lecture notes, Kendall (Systems Analysis and Design)
10	Successfully implementing the information system	Lecture notes, Kendall (Systems Analysis and Design)
11	Group Projects	Student presentations
12	Group Projects	Student presentations



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## ECTS Table

Course Activities	Number	Duration (hour)	Total Work Load (hour)
In Class Activities			
Lectures	12	3	36

## Exams

Project Assignment	1	1,5	2
Project Assignment	1	1,5	2

## Out of Class activities

Preparations before/after weekly lectures	12	2	24
Reading	1	15	15
Design Project	1	15	15
Preparing assignments	1	30	30
Preparing presentations	1	6	6
Total Work Load (hour)			130
ECTS Credits of the Course= Total Work Load (hour) / 25			5