SYSTEM ANALYSIS AND DESIGN

1	Course Title:	SYSTEM ANALYSIS AND DESIGN
2	Course Code:	İSOS216
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. MEHMET ŞEN
15	Course Lecturers:	Öğr. Gör. Oğuzhan Çankaya
16	Contact information of the Course Coordinator:	Öğr.Gör.Uğur Saklangıç Uludağ üniversitesi Teknik Bilimler Meslek Yüksekokulu 0 224 294 23 16 ugursaklangic@gmail.com
17	Website:	
18	Objective of the Course:	The objective of this course is to introduce the fundamentals of systems analysis and design and provide the ability of usage of its tools.
19	Contribution of the Course to Professional Development:	
20	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.
		9	
		10	

21	Course Content:	
	Course Content:	

Week	Theoretical	Practice

1	Systems, roles and development methodologies	
2	Understanding and modeling organizational systems	
3	Project management	
4	Information gathering, Agile modeling and prototyping	
5	Using data flow diagrams	
6	Analyzing systems using data dictionaries, Describing process specifications and structured decisions	
7	Designing effective output and input , Human-computer interaction	
8	Designing databases	
9	Object-oriented systems analysis and design using UML	
10	Successfully implementing the information system	
11	Successfully implementing the information system	
12	Group Projects	
13	Group Projects	
14	Group Projects	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	4	10.00	40.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			88.00
Total work load / 30 hr			2.93
ECTS Credit of the Course			3.00

The overlapping assessment table shows:

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	0	0
Middle exam	1	100
Contributions of Term (Year) Learning Activities to Success Grade		40, 100
Contribution of Final Exam to Success Grade		60.00

Measurement and Evaluation Techniques Used in the Course	

24	ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**