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	0	0.00	4	10.00	40.00
Field Studies			0	0.00	0.00
Midterm Exams	1	60.00	1	10.00	10.00
Others			0	0.00	0.00
Final Exams		40.00	1	10.00	10.00
Total Work Load					88.00
Total work load/ 30 hr					2.93
ECTS Credit of the Course					3.00

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**