		SIMU	JLATION							
1	Course Title:	SIMULA	TION							
2	Course Code:	EKO430	1							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	7.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Doç. Dr.	ARZU EREN ŞENARAS							
15	Course Lecturers:	Doç.Dr.∖	/.Sinem Arıkan Kargı							
16	Contact information of the Course Coordinator:	arzueren@uludag.edu.tr Uludağ University Faculty of Economics and Administrative Sciences A Block 16059 Nilüfer/Bursa								
17	Website:									
18	Objective of the Course:	To explain various simulation solution models and to enable them to apply simulation models.								
19	Contribution of the Course to Professional Development:		simulation programs, it becomes easier to solve, analyze gn the system problem.							
20	Learning Outcomes:									
		1	To be able to apply the basic principles of simulation studies.							
		2	To be able to establish and interpret simulation models for different systems							
		3	To be able to apply Monte Carlo Simulation in MS Excel							
		4	To be able to develop a simulation model with Micro Saint Sharp							
		5	To be able to create activity cycle diagrams							
		6	To be able to apply simulations by hand							
		7								
		8								
		9								
		10								
21	Course Content:									
1.07		Co	ourse Content:							
	Theoretical	1 - !"	Practice							
1	Basic Concepts of Simulation and Machine Definition, Advantages and Disadvantages of Simulation, Applica Areas, System and System Environm System Elements, Discrete and Consystems	nd ation nent,								

2	Concept of Model , Classification of Classification of Simulation Models, Continuous and Batch Simulation C Steps of Simulation Study	·			
3	Fundamentals of Simulation in MS E Monte Carlo Simulation: Fundament Simulation in MS Excel, Structure of Simulation Sheet in MS Excel, Mont Simulation	tals of			
4	Discrete Event Simulation				
5	Time Slicing, Next Event Technique				
6	Simulation model development with Saint Sharp Program	Micro			
7	Example in MSS Program				
8	Activity Cycle Charts				
9	Three-Phase Approach				
10	Basics of Manual Simulation, Example manual simulation	ple of			
11	Random sampling in discrete event simulation				
12	Random Number Generators				
13	Reversion, Rejection, Composition, Transformation, Warm-up period				
14 Activit	Model Validation and Validity, Black Validity. White Box Validity. Analysis tes		Number	Duration (hour)	
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	2	3	3	3	3	3	4	1	2	3	3	0	0	0	0
ÖK2	2	3	4	3	2	3	4	2	3	3	3	3	0	0	0	0
ÖK3	3	4	4	3	3	3	2	3	3	3	4	3	0	0	0	0

ÖK4	4	2	3	3	3	4	2	4	3	3	2	3	0	0	0	0
ÖK5	3	3	2	4	3	3	3	3	3	3	3	4	0	0	0	0
ÖK6	2	2	3	3	2	2	3	2	3	3	2	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					