OPERATIONS RESEARCH I											
1	Course Title:	OPERATIONS RESEARCH I									
2	Course Code:	EKO3301 BH									
3	Type of Course:	Compuls	sory								
4	Level of Course:	Second	Cycle								
5	Year of Study:	0									
6	Semester:	0	0								
7	ECTS Credits Allocated:	5.00									
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	No									
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Doç. Dr. ARZU EREN ŞENARAS									
15	Course Lecturers:	Doç.Dr.Arzu EREN ŞENARAS									
16	Contact information of the Course Coordinator:	arzu eren@uludag.edu.tr 02242940729 Uludağ Üniversitesi İktisadi ve İdari Bilimler Fakültesi A Blok 16059 Nilüfer/Bursa									
17	Website:										
18	Objective of the Course:	The aim of this course is to provide the students focusing on the management problems, the application of system approach and the scientific methods on the management decision.									
19	Contribution of the Course to Professional Development:	Be able to analyze the problems faced in their professional lives in different directions and produce solutions by using the knowledge of operations research.									
20	Learning Outcomes:										
		1	The students are able to optimal decision making depending on the data								
		2	The students are be able to model construction of the large scale business problems								
		3	The students are be able to model solving of the large scale business								
		4	The students are be able to comment of the model solutions								
		5	The students are be able to design manufacturing systems and processes for the purpose of the company's management								
		6	The students are be able to determine the optimal Inventory policies in business.								
		7	The students are able to determine what the optimal decision problems would be in business								
	8 The students are able to analyze LP Applications in MS Excel										
	9										
		10									
21	Course Content:										
		Co	ourse Content:								

Week	The	Theoretical								Practice								
1	System Thinking																	
2	Cau	ausal Feedback loop, Feedbacks																
3	Line Con	ar Pr cepts	ogran S	nming	Mode	el and E	Basic											
4	Crea	ating	LP M	odel														
5	Grap	ohic N	Netho	d														
6	Graphic method solution via Pom program																	
7	Simplex Method																	
8	Sim	plex I	Metho	d App	licatic	ons												
9	Sim prog	plex I Iram	Metho	d App	licatio	ons via	Pom											
10	Туре	es of	Simpl	ex Me	ethod .	Applica	ations											
11	LP A	P Application Examples																
12	Excel Solution of Linear Programming Problems																	
13	Dua	l Sim	nlev N	letho	4													
14	14 Sensitivity Analysis																	
Activites								Number				Duration (hour)			Total Work Load (hour)			
Theoretical								Г Кі́т	Zizinnet Oztark, Toneyi Kitabevi, 2011.				aştırma	42.00				
Practicals/Labs								(0				0.00			0.00		
Self study and preperation								an	ant4Algorithms, Thomsof				A Brooks/Cole, Austral 202004.					
Homeworks									<u> </u>	,		7.00	7.00			7.00		
Protects										0			0.00			0.00		
Field St	Field Studies									0			0.00	0.00				
Midtern	n exa	nns					0		0.0	0.00			20.00	20.00			0.00	
Others	Others									0			0.00	0.00			0.00	
FionaleEv	xons	proje	ect				0		0.0	000			25.00			25.00		
Total Work Load															130.00			
Tetal w	Tetal work load/ 30 hr 1									100.00						5.00		
ECTS Credit of the Course Success Grade															5.00			
Contribution of Final Exam to Success Grade							10	100.00										
Total								10	100.00									
Measurement and Evaluation Techniques Used in the Homework, midterm and final exam Course																		
24 ECTS / WORK LOAD TABLE																		
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 P							PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5 4 5 4 5 4 5						5	4	4	4	4	0	0	0	0			

ÖK2	5	5	5	5	4	5	5	5	5	4	4	4	0	0	0	0
ÖK3	5	4	5	5	5	4	4	4	5	5	5	5	0	0	0	0
ÖK4	5	5	5	4	4	4	4	4	4	4	5	4	0	0	0	0
ÖK5	5	4	5	5	5	4	4	5	4	5	4	5	0	0	0	0
ÖK6	5	5	5	5	4	4	4	4	5	4	4	4	0	0	0	0
ÖK7	5	4	5	4	4	4	4	4	4	4	4	4	0	0	0	0
ÖK8	5	4	5	4	4	4	4	4	4	4	4	4	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				