	QUANT	ITATI	VE TECHNIQUES								
1	Course Title:	QUANTI	TATIVE TECHNIQUES								
2	Course Code:	IIS4401									
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
5	Year of Study:	4									
6	Semester:	7									
7	ECTS Credits Allocated:	6.00									
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	face								
14	Course Coordinator:	Dr. Ögr.	Üyesi ŞÜKRÜ DOKUR								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:		kur@uludag.edu.tr 4 29 41046								
17	Website:										
18	Objective of the Course:	Anayzing the business cases and mathematical modelling, solving the models, interpreting the solutions and presenting to the decision-makers in a useful format for the effective management of decision making activities.									
19	Contribution of the Course to Professional Development:	Building models for business problems, decision making based on quantitative data, using software ve developing analytical skills.									
20	Learning Outcomes:										
		1	To be able to analyze business problems successfully;								
		2	To be able to model the problems mathematically;								
		3	To be able to solve a linear programming model with graphical method.;								
		4	To be able to solve linear programming problems that include different constraint types with simplex method.;								
		5	To be able to define and solve complex business problems.;								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
		Co	ourse Content:								
Week	Theoretical		Practice								

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS										
24	ECTS / WORK LOAD TAE	BLE								
Measu	rement and Evaluation Technique	es Used in t	he C	Online multiple-o	choice/ online written exa	nm/ written exam				
ECTS (Credit of the Course					6.00				
Ferencia	թեթթեթերթեր to Success (Grade	6	0.00		5.90				
	Vork Load					237.00				
Eionatr IE	oxaions of Term (Year) Learning Ad	ctivities to	4	1000	75.00	75.00				
Others				0	0.00	0.00				
	inaemams	1	6	60100	60.00	60.00				
Field S				0	0.00	0.00				
Quoixect		0	C	000	0.00	0.00				
Homew	• • •	ĮK		0	0.00	0.00				
TEININ E	udy and preperation	R R	-	0	0.00	0.00				
22	Accomont als/Labs			0	0.00	0.00				
Theore	rical			14	3.00	42.00				
22 Activit	Textbooks, References and/or C	Jiner		Number	Sayısal Yöntemler, Ekin Duration (hou	r) Total Work Load (hour)				
			4	Zakai Vilia	Cowool Väntanden Eli	Vitabari Druz-				
14	Application of graphic and simplex									
13	economical interpretation Sensitivity analysis and simplex	method								
12	Simplex method solution of dual	problem ar	ıd							
11	Duality in linear programming									
10	Solutions with two stage method		-							
9	Invalid starting solution models a	and solution	s							
8	Special cases (degenerations as solutions)	nd unlimited								
7	Simplex method solution of mini	mum								
6	Simplex method solution of max problems	imum								
5	Simplex method algorithm		Т							
4	Graphic method solution of mini problems	mum								
3	Graphical method solution of ma	aximum								
2	Linear programming and establi linear programming models	shment of								
1	Definition of numerical methods building	and model								

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16														
ÖK1	2	2	2	3	4	4	2	3	3	3	3	4	0	0	0	0
ÖK2	3	1	2	3	2	0	3	2	4	1	0	0	0	0	0	0
ÖK3	3	4	3	0	3	0	4	1	4	5	0	4	0	0	0	0

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