	BUSIN	ESS N	IATHEMATICS II						
1	Course Title:	BUSINESS MATHEMATICS II							
2	Course Code:	ISL1402							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	2							
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi Burcu AVCI ÖZTÜRK							
15	Course Lecturers:	Doç. Dr. Gül EMEL							
16	Contact information of the Course Coordinator:	bavci@uludag.edu.tr Tel: 0224 29 41157							
17	Website:								
18	Objective of the Course:	To develop analytical thinking, solution producing to more complex problems and result evaluating skills of the students. And to provide a strong quantitative basis for the rest of the program courses.							
19	Contribution of the Course to Professional Development:	With the mathematical solutions of different types of business problems, business mathematics contributes to the decision making activities of all kinds of business related professions.							
20	Learning Outcomes:								
		1	To be able to state business problems with multi-variable functions.						
		2	To be able to optimize the mathematical model of the problem.						
			<b>3</b> To be able to apply integral rules to business problems						
		4	To be able to do basic calculations with matrices						
		5	To be able to solve linear equation systems and their applications to business problems.						
		6	To be able to optimize the matrix models with different techniques						
		7	To be able to make economic evaluations with the results of the model						
		8							
		9							
		10							
21	Course Content: Course Content:								
Week	Theoretical		Practice						
1	Use of Marginal Cost and Marginal F	Revenue							
	functions in businesses.								

2	Use of the derivative in optimizati (Maximum profit, maximum reven minimum cost)									
3	Multi-variable functions, Derivativ variable functions and partial deri									
4	Multivariable marginal functions									
5	Optimization of multi-variable reve and cost functions	enue, profit	:							
6	Constrained optimization and lag multipliers in production, utility an business functions									
7	Description and rules of integral a integral	and indefini	te							
8	Definite integral, producer and co surplus	nsumer								
9	Business applications of integral	calculations	3							
10	Definition of determinants, calcula inverse matrix with Co-factors and determinants	b								
11	Definition of determinants, calcula inverse matrix with Co-factors and determinants									
12	Gauss elimination method, Solvin equations with Gauss elimination inverse matrix		d							
13	Solving linear equations with Cra	mer Metho	b		-					
Activi	ites			Number	Duration (hour)	Total Work Load (hour)				
Theore	e Materials:		8	beyal Bilimlerde Mate Mustafa Sevüktekin	natilo Ezgi Kitabevi Zebra Baskava Matu	Bourga, 2010.				
Practio	cals/Labs			0	0.00	0.00				
Self st	udy and preperation		E *	Burşa, 2010. Bülent Kobu⊥İsletme⊥	4.00 Astomatiči Rota Va	56.00				
Home	works			0	0.00	0.00				
Projec	its		F	Ahmet Ozturk, Matem Bursa, 1993	atikşel Analize Giriş	U.00 Kitabevi,				
Field S	Studies			0	0.00	0.00				
M <b>238</b> er	n Assessment			1	25.00	25.00				
Others	3			0	0.00	0.00				
Final E	zams m Fxam	4		0.00	30.00	30.00				
	Work Load		14			153.00				
Total v	work load/ 30 hr					5.10				
	Credit of the Course	10				5.00				
		-	~	.6.00						
Total		2	_	00.00						
Contribution of Term (Year) Learning Activities to Success Grade				0.00						
Contril	bution of Final Exam to Success G	rade	6	60.00						
Total			1	100.00						
Measu Course	urement and Evaluation Techniques	s Used in th	ne N	Multiple choice/Written exam						
24	ECTS / WORK LOAD TAB	LE								

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	2	4	3	2	1	3	3	3	5	5	1	1	0	0	0	0
ÖK2	2	4	3	2	1	3	3	3	5	5	1	1	0	0	0	0
ÖK3	2	3	3	2	1	2	3	3	5	4	1	1	0	0	0	0
ÖK4	2	4	3	2	1	3	3	3	5	5	1	1	0	0	0	0
ÖK5	2	4	3	2	1	3	3	2	5	4	1	1	0	0	0	0
ÖK6	2	4	3	2	1	3	3	2	5	4	1	1	0	0	0	0
ÖK7	3	4	3	2	1	4	4	4	5	5	1	1	0	0	0	0
		I	_O: L	earr	ning (	Dbjed	tive	s P	Q: P	rogra	ım Qu	alifica	tions	5		
Contrib ution Level:				2 low		3 Medium			4 High			5 Very High				