BUSINESS MATHEMATICS II									
1	Course Title:	BUSINESS MATHEMATICS II							
2	Course Code:	ISL1402							
3	Type of Course:	Compuls	ory						
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:	Doç. Dr. GÜL EMEL							
15	Course Lecturers:	Doç. Dr. Gül EMEL Yar.Doç.Dr. Burcu AVCI ÖZTÜRK							
16	Contact information of the Course Coordinator:	ggokay@uludag.edu.tr Tel: 0224 29 41055							
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:								
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.						
		3	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:								
		Co	urse Content:						
	Theoretical		Practice						
1	Multi-variable functions	•							
2	Derivatives of multi-variable functions partial derivative rules								
3	Optimization of multi-variable functio	ns							

4		estrained optimization and Lagran	ige							
5	_	tipliers applications iness applications of multi-variable	le							
		ctions								
6	Des inte	cription and rules of integral and gral	indefinite							
7		inite integral and area calculation gral (Midterm Exam)	with							
8	Bus	iness applications of integral								
9	Intro	oduction to matrix algebra								
10	inve	nition of determinants, calculation erse matrix with Co-factors and erminants	n of							
11		culation of inverse matrix with Ga ination method, linear equations	uss							
12		ving linear equations with Gauss iination method and inverse matri	ix							
13	Solv	ring linear equations with Cramer	Method							
14	Bus	iness applications of matrices								
22	Mat	tbooks, References and/or Other erials:		* Mustafa Aytaç, Mustafa Sevüktekin, Erkan Işığıçok, Sosyal Bilimlerde Matematik, Ezgi Kitabevi, Bursa, 2010. * Mustafa Sevüktekin, Zehra Başkaya, Matematiksel Analiz: İşletme ve Ekonomi Uygulamaları, Dora Yayıncılık, Bursa, 2010. * Bülent Kobu. İsletme Matematiği. Beta Yayınevi.						
Activites				Number		Duration (hour)	Total Work Load (hour)			
Theore	elical	esment		14		3.00	42.00			
Practic				0		0.00	0.00			
Self stu	udy a	nd preperation	R	14		4.00	56.00			
Homev	works	3	<u> </u>	0		0.00	0.00			
Project	ts		U	000		0.00	0.00			
Field S	Studie	9S		0		0.00	0.00			
Modeli	xam m ex	ams	1	60 ₁ 00		25.00	25.00			
Others				0		0.00	0.00			
Contribution of Term (Year) Learning Activities to Success Grade				4 0 100		30.00	30.00			
Total V							178.00			
Total work load/ 30 hr				00.00			5.10			
ECTS	Cred	it of the Course		1000			5.00			
1		ent and Evaluation Techniques Us	sed in the							
Course	1	TO //MODI/ 045 T45' T								
24	EC	TS / WORK LOAD TABLE								
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS									

QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

Contrib 1 very low ution Level:		:	2 low		3 Medium			4 High			5 Very High					
LO: Learning Objectives PQ: Program Qualifications																
ÖK7	3	4	3	2	0	4	4	4	5	5	0	0	0	0	0	0
ÖK6	2	4	3	2	0	3	3	2	5	4	1	0	0	0	0	0
ÖK5	2	4	3	2	0	3	3	2	5	4	1	0	0	0	0	0
ÖK4	2	4	3	2	0	3	3	3	5	5	1	0	0	0	0	0