	N	IATHE	EMATICS II						
1	Course Title:	MATHEMATICS II							
2	Course Code:	İMT1006							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	7.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi BAHTİYAR BAYRAKTAR							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	E-mail: bbayraktar@uludag.edu.tr, İş Tel: +90(224) 294 22 98. Adres: UÜ, Eğitim Fakültesi, İlköğretim Bölümü, Matematik Eğitimi Anabilim Dalı, 16059 Görükle / BURSA							
17	Website:								
18	Objective of the Course:	The purpose of the course is to comprehend the importance of mathematics and the basic notions of the mathematical concepts, plus to gain practice skills in this specialty.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Maximum-minimum problems can be solved.						
		2	Exponential uncertainties are known.						
		3	Graphic drawings are made.						
		4	The indefinite integral can be defined.						
	5 6 7 8		Techniques of integration are learnt.						
			Different types of the integral function can be taken with the help of methods of integration.						
			Properties of definite integrals are known.						
			Area and volume calculations using the definite integral can be made.						
		9	Concept of matrix is known. Operations related with matrices can be made.						
		10	Systems of linear equations can be solved.						
21	Course Content:								
	Course Content:								
	Theoretical		Practice						
1	Absolute maximum and absolute mi values of a function. Problem solving		Absolute maximum and absolute minimum values of a function. Problem solving.						

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2	Indefinite integrals. Integration techni	ques.	In	Indefinite integrals. Integration techniques.							
3	3 Indefinite integrals. Change of vari Indefinite integrals. Change of variab		3 Indefinite integrals. Change of variables. Indefinite integrals. Change of variables.								
4	Indefinite integrals. Techniques of int Partial integration. Usage of trigonom equations. Integration of rational func	netric	Indefinite integrals. Techniques of integration. Partial integration. Usage of trigonometric equations. Integration of rational functions.								
5	Indefinite integrals. Techniques of int Usage of trigonometric equations. Int of rational functions		Indefinite integrals. Techniques of integration. Usage of trigonometric equations. Integration of rational functions								
6	Indefinite integrals. Techniques of int Integration of rational functions	egration.	Τe	echniques of integratio	n. Integration of rat	ional functions					
7	The concept of definite integral. Lowe and Riemann sums. Leibnitz- Newtor Formula. Its Specifications. Average theorem.	י. ו	Calculation of definite integral								
8	Techniques of integral calculus. Char variables. Partial integration.	nge of	Τe	echniques of integral c	alculus.						
9	Area volume and curve lengths calco with the definite integral	ulations		Area, volume and curve lengths calculations with the definite integral							
10	Area, volume and curve lengths calc with the definite integral	ulations	Area, volume and curve lengths calculations with the definite integral								
11	Improper integrals.		Improper integrals.								
Activi	tes			Number	Duration (hour)	Total Work Load (hour)					
	Systems of linear equations and mati	rices	_	stems of linear equati		28.00					
				14	2.00	28.00					
	University of the second s			ASIC and General Math							
Home											
Project			ht	http://www.mat.itu.edu.tt/ergezen/lineer.aspx ⁰⁰ 0 0.00							
Field S			1110	0 ip.//www.maiemasuk.i · bnc	0.00 erceoir_mamsr 8.00						
	n exams		e.								
Others	Assesment			0	0.00 20.00	0.00 20.00					
	Work Load		+	1	20.00	210.00					
	κρικλίgad/ 30 hr					7.00					
	Credit of the Course	1	40).00		7.00					
Home work-project 0				0.00							
Final E	xam	60.00									
Total		2	10	100.00							
	oution of Term (Year) Learning Activitie ss Grade	es to	40	40.00							
Contrik	oution of Final Exam to Success Grade)	60.00								
Total			10	100.00							
Measu Course	irement and Evaluation Techniques Us e	ed in the									

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	5	0	0	5	0	0	0	0	4	0	0	3	0	3	4
ÖK2	1	2	0	0	1	0	0	0	0	1	0	0	2	0	1	1
ÖK3	3	5	0	0	4	0	0	0	0	4	0	0	4	0	3	4
ÖK4	1	3	0	0	1	0	0	0	0	3	0	0	3	0	2	2
ÖK5	1	2	0	0	3	0	0	0	0	3	0	0	3	0	2	2
ÖK6	1	2	0	0	3	0	0	0	0	2	0	0	3	0	2	2
ÖK7	1	2	0	0	3	0	0	0	0	4	0	0	3	0	1	3
ÖK8	1	5	0	0	4	0	0	0	0	4	0	0	3	0	3	4
ÖK9	1	5	0	0	4	0	0	0	0	3	0	0	4	0	2	4
ÖK10	1	5	0	0	4	0	0	0	0	4	0	0	3	0	3	4
		I	_O: L	earr	ning C	bjec	tive	s P	Q: P	rogra	im Qu	alifica	ations	5		
Contrib ution Level:					3 Medium			4 High			5 Very High					