		ANA								
1	Course Title:	ANALYS	SIS III							
2	Course Code:	MAT2001								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cy	cle							
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	10.00								
8	Theoretical (hour/week):	4.00								
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:	Prof. Dr.	. METIN ÖZTÜRK							
15	Course Lecturers:	Analiz v	e Fonksiyonlar Teorisi bilim dalı öğretim üyeleri							
16	Contact information of the Course Coordinator:ometin@uludag.edu.tr, 0 (224) 2941760 U.Ü. Fen-Ed. Fak. Matematik Bölümü, Görükle/BURSA									
17	Website:									
18	Dbjective of the Course: Aim of the lecture is to make the students gain the basic of complex functions theories at graduate level. The targets are to give the algebra									
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Knows pointwise and uniform convergence of function sequences							
		2	Learns the topology of R^n.							
		3	Knows limit, continuity and partial derivative of vector- valued and multi-variable functions.							
		4	Knows the geometric meaning of partial derivatives.							
		5	Knows the total differential and directional derivative.							
		6	Learns the application of implicit function and inverse function theorems							
		7	Learns differentiability.							
		8	Knows to solve the problems of extremum.							
		9								
		10								
21	Course Content:									
Made	Theoretical	Co	Durse Content:							
	Theoretical	of	Practice							
1	Pointwise and uniform convergence function sequences, uniform conver and integration, uniform convergence differentiation.	rgence	The solution of problems related							
2	Uniform convergence of function series. The solution of problems related									

3	The a	The algebraic and topology structure of R^n									The solution of problems related									
4		Connectedness, compactness, sequences and series in R^n.									The solution of problems related									
5		limits and continuity of vector-valued functions.									The solution of problems related									
6		Derivative and integral of vector valued functions, space curves and lengths.									The solution of problems related									
7		Regions of definition of functions of several variables, examples, limit and continuity.									The solution of problems related									
8											The solution of problems related									
9	Repe	atin	g cou	rses a	nd mi	dterm	exam													
10	the ch	hain	rule,	differe	ential,	full diff	erenti	al	Th	The solution of problems related										
11				ivative n theo		icit fun	ction a	and	Th	e solu	tion of	problen	ns relate	əd						
12			c mea pansio		of par	tial der	ivative	es,	Th	e solut	tion of	problen	ns relate	ed						
13	Repe	atin	g cou	rses a	nd mi	dterm	exam		Th	e solu	tion of	problen	ns relate	ed						
14	Eksre multip			blems	and t	he Lag	Irange)	Th	The solution of problems related										
22										B. MUSAYEV, K. KOCA, N. MUSTAFAYEV, Analiz IV, Seçkin Yayınevi 2006. M. BALCI, Matematik Analiz II, Balcı Yayınları, 2005; J.E.MARSDEN, A.J.TROMBA, Vector Calculus, Freeman										
Activites									Numb	er		Dura	Duration (hour)			Total Work Load (hour)				
Theore	tical	m	ACT	VIIIE3	,		R			14				4.00 56			56.00			
Practicals/Labs										14				2.00			28.00			
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Others									ŀ	12				2.00			24.00			
Finatrie										59,00					ŀ	14.00				
Total W	Vork Lo	oad												:	300.00					
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ECTS (UAD	ТАВ	LE			10.00										
25				CON	TRIB			FLE	ARN	ING	ουτα		s то і	PROG	RAM	ME				
	5 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	Ρ	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	1		3	1	3	4	2	1	4	4	1	0	0	0	0	0	0			
ÖK2	1		4	1	3	4	2	2	4	4	1	0	0	0	0	0	0			
ÖK3	1		4	1	2	4	2	4	4	4	2	0	0	0	0	0	0			
ÖK4	2		3	2	3	3	2	4	4	4	1	0	0	0	0	0	0			

ÖK5	2	3	2	3	3	2	4	4	4	1	0	0	0	0	0	0
ÖK6	2	4	1	2	4	2	4	4	4	2	0	0	0	0	0	0
ÖK7	1	4	1	2	4	2	4	4	4	1	0	0	0	0	0	0
ÖK8	1	4	1	2	4	2	5	4	4	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				2 Iow		3	3 Medium		4 High			5 Very High			