		ANA	LYSIS III							
1	Course Title:	ANALYS	SIS III							
2	Course Code:	MAT200	1							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	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.	İSMAİL NACİ CANGÜL							
15	Course Lecturers:	Analiz ve	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	Objective 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:									
\\/	Theoretical	Co	ourse Content:							
	Theoretical	of	Practice The solution of problems related							
1	Pointwise and uniform convergence function sequences, uniform convergence and integration, uniform convergence differentiation.	gence	The solution of problems related							
2	Uniform convergence of function series. The solution of problems related									

25	CONTRIBU	JTION OF LE	ARNING OUT	COMES TO PROG	RAMME							
ECTS (Credit of the Course	IABLE			10.00							
_	werk enach and the Course	niques Used in th	ne		10.00							
	Work Load				300.00							
	oution of Final Exam to Succe	ess Grade	50 ₁ 00	14.00	14.00							
Others			12	2.00	24.00							
Chicotterito	noutecoma nonfsTerm (Year) Learnin	g Activities to	50200	11.00	22.00							
Field S	Studies		0	0.00	0.00							
Pinople &		1	50000	0.00	0.00							
Homew	· · · ·		12	6.00	72.00							
	udy and preperation	0	0 92	7.00	84.00							
	cals/Labs	K	14	2.00	28.00							
Theore	ELAKNING ACTIVITIES etical	INOMBE R	14	4.00	56.00							
Activit	tes		Number	Duration (h	nour) Total Work Load (hour)							
22	Textbooks, References and Materials:	or Other	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									
14	Eksremum problems and th multiplier.	e Lagrange	The solution of	The solution of problems related								
13	Repeating courses and mid	term exam	The solution of	of problems related								
12	Geometric meaning of partial series expansion	al derivatives,	The solution of	The solution of problems related								
11	Directional derivative, implication inverse function theorems.	cit function and	The solution of	of problems related								
10	the chain rule, differential, fu	ull differential	The solution of	of problems related								
9	Repeating courses and mid	term exam										
8	The partial derivative of fundariables, higher order derivative		The solution of	The solution of problems related								
7	Regions of definition of function variables, examples, limit are		The solution of	The solution of problems related								
6	Derivative and integral of verture functions, space curves and		The solution of	The solution of problems related								
5	limits and continuity of vector functions.	or-valued	The solution of	The solution of problems related								
4	Connectedness, compactne and series in R^n.	ess, sequences	The solution of	The solution of problems related								
3	The algebraic and topology	structure of R^n	The solution of	of problems related								

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	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

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