ANALYSIS II										
1	Course Title:	ANALYS	SIS II							
2	Course Code:	MAT1002								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	8.00								
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:	Prof. Dr. Metin ÖZTÜRK, Prof. Dr. Sibel YALÇIN TOKGÖZ, Prof. Dr. Osman BİZİM, Doç. Dr. Ahmet TEKCAN, Yrd. Doç. Dr. Musa DEMİRCİ, Yrd. Doç. Dr. Hacer ÖZDEN								
16	Contact information of the Course Coordinator:	cangul@uludag.edu.tr, 0224 2941756, Fen-Edebiyat Fakültesi, Matematik Bölümü, 16059, Görükle / Bursa								
17	Website:									
18	Objective of the Course:	To give the notion of integral, applications of integral together with sequences and series including power series								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Knows the notion of integral							
		2	Knows integral applications							
		3	Can obtain power series expansion of a given function							
		4	Knows the notions of sequence and series and makes their applications							
		5	Can transfer between cartesian, polar and parametric coordinate systems and can differentiate the differences							
		6	Knows the origins and history of the main notions							
		7	Knows the corresponding English meanings of the main notions							
		8								
		9								
		10								
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Definition of indefinite integral, basic	notions	Applications of the definition							
2	Basic integration rules		Applications of basic integration rules							

3	Change of variables, partial integration	on	Examples of change of variables and partial integration								
4	Seperating into simple fractions, trigo variable changes	onometric	Examples of seperating into simple fractions and trigonometric variable changes								
5	Binomial integrals, fundamental theor integral	rems of	Examples of Binomial integrals, applications of the fundamental theorems of integral								
6	Definition of definite integral, basic no	otions	Applications of basic notions								
7	Upper and lower sums, Riemann inte	egral	Calculation of upper and lower sums for several functions, finding Riemann integral								
8	Arc length and area		Examples of arc length and area calculations								
9	Midterm exam and general review		Mixed examples								
10	Area and volume of revolutionary sur	faces	Examples of calculating area and volume of revolutionary surfaces								
11	Sequences, properties of sequences subsequences, limit of a sequence	,	Examples of sequences, finding subsequences, calculating limits								
12	Series, special series		С	Calculations with series, examples of arithmetic and							
Activit	es			Number	Duration (hour) Total Wor Load (hou						
Theore	ical Power series, expansion of a function	n into a	F	14 vamples of power serie	4.00	56.00					
Practica	als/Labs	<u>nino u</u>		14	2.00	28.00					
Self stu	dy and preperation		a	proxiamation 14	7.00	98.00					
Homew	vorks		-	0	0.00	0.00					
Project	Natorials:			aiculus, Ismail Naci CA	NGUL (Eallor), NO	oer vayınıarı, 0.00					
Field S	tudies		121	0	0.00	0.00					
Midtern	n exams		Т	TCAN, Dora Yayiniar 1	26.00'	20.00					
Others				0	0.00	0.00					
FERRINE	A ARNING ACTIVITIES	NUMBE	W	ÉIGHT	34.00	34.00					
Total W	/ork Load					236.00					
Total w	ork load/ 30 hr		4	0.00		7.87					
ECTS (Credit of the Course					8.00					
Home	work-project	0	0.	0.00							
Final E	xam	1	60								
Total		2	10	100.00							
Succes	sution of Term (Year) Learning Activities S Grade	es to	4(40.00							
Contrib	ution of Final Exam to Success Grade	e	60.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	sed in the									
24	ECTS / WORK LOAD TABLE										

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	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	5	0	0	5	4	0	0	0	0	0	0	0	0
ÖK3	5	0	0	5	0	0	5	4	0	0	0	0	0	0	0	0
ÖK4	2	4	0	0	5	0	2	5	0	0	0	0	0	0	0	0
ÖK5	5	3	0	0	5	0	2	4	0	3	0	0	0	0	0	0
ÖK6	0	0	0	0	5	0	0	2	0	3	0	0	0	0	0	0
ÖK7	0	0	0	0	0	5	0	0	0	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	Contrib 1 very low ution Level:				2 low	/ 3 Me			um	m 4 High		5 Very High				