ANALYSIS II										
1	Course Title:	ANALYSIS 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. 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:	http://ismailnacicangul.com								
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			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	nometric		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	gral	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		M	Mixed examples							
10	Area and volume of revolutionary sur		Examples of calculating area and volume of revolutionary surfaces								
11	Sequences, properties of sequences, subsequences, limit of a sequence	,		xamples of sequences alculating limits	, finding subsequer	nces,					
12	Series, special series		C	alculations with series	examples of arithn	netic and					
Activi			<u>ı</u>	Calculations with series, examples of arithmetic an Number Duration (hour) Total							
Activi	ics			Number	Duration (nour)	Load (hour)					
Theore	ical Power series, expansion of a function	into o	_	14 xamples of power serie	4.00	56.00					
Practic	cals/Labs	i into a	IE	14	2.00	28.00					
	dy and preperation		а	pproxiamation 14	7.00	98.00					
				0		0.00					
Home	Textbooks, References and/or Other		TC		0.00 SANGUL (Editor), Nobel Yayınları 0.00						
	IIViateriais.		2	012							
Field S			т -	0 gneriviatematik i, ivius	0.00	0.00					
Midteri	n exams			The materiality is was	20.00 Baici	20.00 2008					
Others				0	0.00	0.00					
FERME	LYBARNING ACTIVITIES	NUMBE	W	ÉIGHT	34.00	34.00					
	Vork Load					236.00					
Total v	vork load/ 30 hr	1	41	7.00		7.87					
	Credit of the Course					8.00					
	work-project	U	V.	00							
Final E	xam	60.00									
Total		2	10	100.00							
Contribution of Term (Year) Learning Activities to Success Grade				40.00							
Contrib	oution of Final Exam to Success Grade)	60.00								
Total			10	100.00							
Measu Course	rement and Evaluation Techniques Us	ed 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
		l	O: L	.earr	ning (bjec	tive	s P	Q: P	rogra	m Qu	alifica	tions	<u> </u>	1	
Contrib 1 very low ution Level:			2	2 low			3 Medium		4 High			5 Very High				