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. 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							
		Can obtain power series expansion of a given fund								
	4		Knows the notions of sequence and series and makes their applications							
		Can transfer between cartesian, polar and parametric coordinate systems and can differentiate the difference								
	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:									
107	Course Content:									
		mat!	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 theorintegral	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		Ε	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	,	Examples of sequences, finding subsequences, calculating limits								
12	Series, special series		С	alculations with series,	examples of arithn	netic and					
Activi			<u></u>	Number	Duration (hour)						
ACIIVI	ies			Number	Duration (nour)	Load (hour)					
Theore	ical Power series, expansion of a function	into o	С	14 xamples of power serie	4.00	56.00					
Practic	cals/Labs	i iiito a	<u> </u>	14	2.00	28.00					
	dy and preperation		а	oproxiamation 14	7.00	98.00					
Home				0	0.00	0.00					
D.22	Trextbooks, References and/or Other Materials:		T	ajculus, ismail ivaci C <i>F</i>	ir Naci CANGUL (Editor), Nobel Yayınları 0.00						
Field S	IIViateriais.		2	<u>У</u> 2	0.00						
			П	7	26.00	20.00					
	n exams										
Others			_	0	0.00	0.00					
		NUMBE	W	ÉІGНТ	34.00	34.00					
	Vork Load	Т	141	J. UU		236.00					
Total v	vork load/ 30 hr	^	_	00		7.87					
	Credit of the Course work-project	U	TO.	00		8.00					
				60.00							
Total			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	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
			O: L	earr	ning (Objec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	S		
Contrib 1 very low ution Level:			2	2 low	low 3			Medium		4 High			5 Very High			