		ANA	LYSIS 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						
		Knows the notions of sequence and series and ma their applications							
		5 Can transfer between cartesian, polar and paramet coordinate systems and can differentiate the diffe							
		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:		2						
10/	Theoretical	Co	ourse Content:						
		notions	Practice						
1	Definition of indefinite integral, basic	HOUOUS	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 theolintegral	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		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		Calculations with series, examples of arithmetic and geometric series					
13	Convergency tests		Examples of convergency tests					
14	Power series, expansion of a function power series, approximation	n into a	Examples of power series, examples of expansion of a function into a power series, use of this expansion in approxiamation					
22	Textbooks, References and/or Other Materials:		Calculus, İsmail Naci CANGÜL (Editör), Nobel Yayınları, 2012 Genel Matematik II, Osman BİZİM, Betül GEZER, Ahmet TEKCAN, Dora Yayınları, 2011					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	vork-project	0	0.00					
Final Ex	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	ution of Final Exam to Success Grade	e	60.00					
Total			100.00					
Measur Course	ement and Evaluation Techniques Us	sed in the						
24	ECTS / WORK LOAD TABLE							

Activites	Number	Duration (hour	Total Work Load (hour)
Theoretical	14	4.00	56.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	7.00	98.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	20.00	20.00
Others	0	0.00	0.00
Final Exams	1	34.00	34.00
Total Work Load			236.00
Total work load/ 30 hr			7.87
ECTS Credit of the Course			8.00

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:	tion			2 low		3 Medium			4 High			5 Very High				