		ANA	ALYSIS I						
1	Course Title:	ANALYS	SIS I						
2	Course Code:	MAT1001							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
5	Year of Study:	1							
6	Semester:	1							
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:	http://homepage.uludag.edu.tr/~cangul/derslerim.html							
18	Objective of the Course:	To give the notions such as function, sequence, limit, continuity and derivative in detail							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Knows the fundamental notions of Analysis						
		2	Can apply the fundamental notions of Analysis						
		3	Can comment on the fundamental notions of Analysis geometrically, physically, etc.						
		4	Can transfer between cartesian, polar and parametric coordinate systems and can differentiate the differences						
		5	Knows the origins and history of the main notions						
		6	Knows the corresponding English meanings of the main notions						
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	Sets		Examples of sets and set operations						
2	Numbers		Examples of number sets						

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3	Relations and Functions		Examples of relations and functions, operations of functions						
4	Sequences		Examples of sequences, subsequences, calculation of the terms of the sequence, limit of a sequence, arithmetic and geometric sequences						
5	Limit		Calculation of limit in real numbers and extended real numbers						
6	Indefinite cases		Examples of indefinite cases						
7	Differential and approximation		Use of differential in approximations						
8	Definition of derivative		Examples of basic derivation rules						
9	Midterm exam and general review		General review						
10	Geometric and physical meaning of derivative, higher order derivatives		Slope, tangent and normal line, examples of relations between speed, acceleration and length of motion						
11	Derivatives of implicit and inverse fur extremum problems	nctions,	Examples of extremum problems						
12	Increasing-decreasing functions, infle points	ection	Examples of increasing-decreasing functions and inflection points						
13	Other applications of derivative		Examples of applications of derivative in other areas						
14	Drawing graphs of rational functions		Examples of drawing graphs of rational functions and briefly other functions						
22	Textbooks, References and/or Other Materials:		Calculus, İsmail Naci CANGÜL (Editör), Nobel Yayınları, 2012 Genel Matematik I, Osman BİZİM, Betül GEZER, Ahmet TEKCAN, Dora Yayınları, 2011						
23	Assesment								
TERM	LEARNING ACTIVITIES	NUMBE R	WEIGHT						
Midter	m Exam	1	40.00						
Quiz		0	0.00						
Home	work-project	0	0.00						
Final E	xam	1	60.00						
Total		2	100.00						
	oution of Term (Year) Learning Activitions SS Grade	es to	40.00						
Contrib	oution of Final Exam to Success Grade	9	60.00						
Total			100.00						
Measu Course	rement 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	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	3	0	0	5	0	2	4	0	3	0	0	0	0	0	0
ÖK4	2	4	0	0	5	0	2	5	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	5	0	0	2	0	3	0	0	0	0	0	0
ÖK6	0	0	0	0	0	5	0	0	0	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low		3 Medium			4 High			5 Very High				