MATHEMATICS II										
1	Course Title:	MATHEN	MATICS II							
2	Course Code:	MAT108	4							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	le							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	Dr. Ögr.	Üyesi AYSUN YURTTAŞ GÜNEŞ							
15	Course Lecturers:	Matemat	ik Bölümü Öğretim Üyeleri ve Öğretim Elemanları							
16	Contact information of the Course Coordinator:	E-posta: ayurttas@uludag.edu.tr Telefon: +90 224 2941769 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE								
17	Website:									
18	Objective of the Course:	To teach indefinite integral, methods of indefinite integral, Properties of the integral, Theorems related with the Riemann integral, Applications of the Riemann integral (Calculation of Area, length of arc, volume and surface area), Generalized integrals and their properties, convergence of real number sequences and series.								
19	Contribution of the Course to Professional Development:	It supplies the mathematical knowledge necessary for the students. Students are able to interpret and regulate data systematically.								
20	Learning Outcomes:									
		1	He/ she recognizes the concept of the indefinite integral;							
		2	He/ she applies the integral methods;							
		3	He/ she calculates the definite integral of partial functions;							
		4	He/ she calculates derivative of an integral;							
		5	He/ she recognizes the definite integral;							
		6	He/ she calculates area, length of arc, volume and surface area;							
		7	He/ she recognizes the generalized integrals;							
		8	He/ she interprets the properties of the generalized integrals;							
		9	He/ she determines convergences of real number sequences;							
		10	He/ she determines convergences of real number series;							
21	Course Content:									
	Course Content:									
Week	Theoretical		Practice							
1	Indefinite integrals, methods of integ changing variables	rals,								

	Some special changing variables																	
3	Partial integration																	
4	Seperati trigonom	nple fr ns	actions	s, inte	gral of	:												
5	Integral of integrals	algebr	ic func	tions,	Binon	٦												
6	Definite i																	
7	Calculati	on of a	area, (Calcul	lation o	f volu	me											
8	Calculati surface a	of arc	c, Com	putatio	on of													
9	Mid-term	uation																
10	The conv integrals	terion	s of ge	nerali	zed													
11	Real nur	nber s	equer	nces														
12	Converg	ence o	of real	numb	oer seq	uence	es											
13	Converg	ence o	of real	numb	oer seri	es												
14	Converg	ence t	ests fo	or pos	itive se	eries.												
22	Textbooks, References and/or Other Materials:								Calculus, İsmail Naci CANGÜL (Editör), Nobel Yayınları, 2012 Genel Matematik 1, Mustafa BALCI, Balcı Yayınları, 2008									
23	Assesme	ent																
TERM L	EARNING	S ACTI	VITIES	;		N	IUMBE	W	EIGHT			-						
Activites									Numb	er		Dura	ition (Total Work Load (hour)				
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ÖK6	0	1	0	2	4	2	0	4	0	4	0	0	0	0	0	0
ÖK7	0	1	0	2	4	2	0	4	0	4	0	0	0	0	0	0
ÖK8	0	1	0	2	4	2	0	4	0	4	0	0	0	0	0	0
ÖK9	0	1	0	2	4	2	0	4	0	4	0	0	0	0	0	0
ÖK10	0	1	0	2	4	2	0	4	0	4	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				