MATHEMATICS WITH COMPUTER									
1	Course Title:	MATHEN	MATICS WITH COMPUTER						
2	Course Code:	BMM1008							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cycle							
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Öğr. Gör	. Dr. Filiz Yağcı						
15	Course Lecturers:	Nisa ÇEI	LİK						
16	Contact information of the Course Coordinator:	gfiliz@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	Through Maple commands to do mathematical operations on other courses they taught, and the Maple commands to learn on their own.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		The use and purpose of the command in Maple grip.							
		2	Maple is a mathematical process of fetching results in the encoding.						
		3	Bildiği Maple komutu yardımıyla bilmediği Maple komutlarını kodlayabilme.						
		4	Learning from other programming languages ??used by mathematicians, programming languages, with the help of Maple.						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	editor.		Maple editor's introduction, the use of the command.						
2	Elementary algebraic operations, and commands.	d	Enforcement of various examples of lectures are given to students in computer commands.						

	Some basic commands, assignments variables, find solutions to simple equivariables not leave you alone, mather expressions replacement.	ations,	Enforcement of various examples of lectures are given to students in computer commands.						
	Element representation of clusters of subset, finding the subset, the numbe subsets, set operations, cartesian consystem commands, basic drawing commands, types of numbers used in mathematics, and questioning,	r of ordinate	Enforcement of various examples of lectures are given to students in computer commands.						
	Calculation with the symbol of addition multiplication, absolute value, square fundamental numbers, polynomials, frexpressions, algebraic expressions, expansion, factorization and polynoming greatest common divisor and least commultiple for the calculation.	root and actional	Enforcement of various examples of lectures are given to students in computer commands.						
	Draw a polygon, planar graphs, the as shown on the chart and graphics, mul- fonts, writing off the graphics functions graphing polar coordinates, the three- dimensional graphics, animated graph	tiple s,	Enforcement of various examples of lectures are given to students in computer commands.						
7	Repeating courses and midterm exam	1	Repeating courses.						
	Representation of functions with mapl to one and bijective functions, the ope functions, inverse function to calculate graph plotting.	rations	Enforcement of various examples of lectures are given to students in computer commands.						
9	Limits and continuity.		Enforcement of various examples of lectures are given to students in computer commands.						
	Basic differentiation rules, implicit differentiation, derivative of inverse fur parametric functions, derivatives, derivor of logarithmic and exponential function g (x) in the form of derivatives of funct trigonometric functions, inverse trigon functions, derivatives, derivatives of intrigonometric fonksiyonşarın, Higher-Oderivatives.	vatives ns, f (x) cions, ometric overse	Enforcement of various examples of lectures are given to students in computer commands.						
	Applications of derivatives: Increasing decreasing functions, critical points, cand concave, the turning point, maxim minimum points.	onvex	Enforcement of various examples of lectures are given to students in computer commands.						
	Indefinite integral, definite integral, characteristics, the partial integral method, fractions.		Enforcement of various examples of lectures are given to students in computer commands.						
	Integral as the limit of Riemann sums, the integral of the function graph. Sim commands are used in the creation of maplet.	ple	Enforcement of various examples of lectures are given to students in computer commands.						
14	Maplette buttons, add titles and text w	vindow.	Enforcement of various examples of lectures are given to students in computer commands.						
	Textbooks, References and/or Other Materials:		• "Maple ve Maple ile Matematik ", Basri Çelik. • "The Maple Book", F.Garvan.						
23 Assesment									
TERM LEARNING ACTIVITIES NUMBER		NUMBE R	WEIGHT						
Midterm	Midterm Exam 1		40.00						
Quiz		0	0.00						
	' '	1	10.00						
Final Ex		1	50.00						
Total		3	100.00						

Contribution of Term (Year) Learning Activities to Success Grade	50.00
Contribution of Final Exam to Success Grade	50.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	
24 ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	0	0.00	0.00
Homeworks	1	22.00	22.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	21.00	21.00
Others	0	0.00	0.00
Final Exams	1	21.00	21.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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	0	0	0	5	0	0	4	0	4	4	0	0	0	0	0	0
ÖK2	0	0	0	5	0	0	4	0	4	4	0	0	0	0	0	0
ÖK3	0	0	0	5	0	0	4	0	4	4	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	4	0	4	4	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1			2 low 3 Me			Medi	ium 4 High				5 Very High				