	MAF	PLE AI	PPLICATIONS						
1	Course Title:	MAPLE	APPLICATIONS						
2	Course Code:	MAT532	1						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	6.00							
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	face						
14	Course Coordinator:	Prof. Dr.	BASRİ ÇELİK						
15	Course Lecturers:	Doç. Dr. Atilla AKPINAR Dr. Öğr. Üyesi Fatma ÖZEN ERDOĞAN							
16	Contact information of the Course Coordinator:	Prof.Dr.Basri ÇELİK E-posta: basri@uludag.edu.tr Telefon: +90 224 2941762 Adres: Uludağ Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü 16059 Görükle-Bursa-TÜRKİYE							
17	Website:								
18	Objective of the Course:	Using the Maple computer program to find the solution of problems faced in Math which taken excessively long time when done manually.							
19	Contribution of the Course to Professional Development:	To be able to practice the professional applications of mathematical and geometric concepts with using computer.							
20	Learning Outcomes:								
		1	Learns the calculations on trigonometry with Maple.						
		2	Solves the application problems of sequences and serials.						
		3	Calculates limits and finds continuality.						
		4	Makes and applications of derivation wit Maple.						
		5	Learns to calculating integrals with Maple and makes some applications of integral.						
		6	Makes vectoral operations with Maple.						
		7	Solves the linear equations systems with Maple.						
		8	Solves the ordinary differential equations with Maple.						
		9 Makes fundamental statistical calculations with N							
		10 Learns the essential Maple commands and knows to using these in problems.							
21	Course Content:	1							

		Course Content:																
Week	The	Theoretical																
1	Des	Description of course.																
2		Trigonometry and trigonometric functions with Maple.																
3	Seq	Sequences and series with Maple.																
4	Limi	it and	l conti	nuity v	vith N	laple.												
5	Deri	Derivation and its applications with Maple.																
6	Inte	Integral and its applications with Maple.																
7	Vec	Vectors and vectorial operations with Maple.																
8	Mat	Matrices and matrix operations with Maple.																
9		Calculating trace, eigenvalues and eigenvectors with Maple.																
10		Solutions of linear equations system with Maple.																
11		Solutions of ordinary differential equations with Maple.																
12	Fun	dame	entals	of sta	tistics	with N	laple.											
Activi	ites								Number				Duration (hour)			Total Work Load (hour)		
Theore	refical								T	14			3.00			42.00		
Practic	acticals/Labs									0			0.00			0.00		
Self stu									2	2 baskı, 2010, Bursa.			9.00			126.00		
Homew			-							0			0.00			0.00		
Perja ci	t∉AR	NING		VITIES	;		١	NUMBE	W	WÊIGHT			0.00			0.00		
Field S										0				0.00				
Midter	m exa	n exame											0.00			0.00		
Others										0			0.00			0.00		
Final E	xam	xams							- 1						12.00			
	Work Load													180.00				
Total w	vork l	/ork load/_30 hr								0.00						6.00		
ECTS	Cred	it of t	he Co	urse												6.00		
Contrik	butior	n of F	inal E	xam to	o Suc	cess G	rade		10	0.00								
Total								100.00										
Measu Course		ent an	nd Eva	luatio	n Tec	hnique	s Use	ed in th	e Ho	omewo	rks and	d online	exams	;				
24	EC	TS /	WO	RK L	OAD	ТАВ	LE		_									
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	
(1										

Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				
				Lea	rning	-	_			rogr		ualific	ation			
ÖK10	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0