PROGRAMMING I										
1	Course Title:	PROGRAMMING I								
2	Course Code:	MAT4115								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	4								
6	Semester:	7								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Dr. Ögr.	Üyesi BAHTİYAR BAYRAKTAR							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	E-mail: bbayraktar@uludag.edu.tr, İş Tel: +90(224) 294 22 98. Adres: UÜ, Eğitim Fakültesi, İlköğretim Bölümü, Matematik Eğitimi Anabilim Dalı, 16059 Görükle / BURSA								
17	Website:									
18	Objective of the Course:	The purpose of the course is to understand the basics of mathematical modeling in comprehensive manner. Also the goal is to learn the basics of algorithm and to be able to use them on computer. To gain skills in producing of practice tasks in Maths lessons. To understand the basics of software languages.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Terms of building mathematical models to analyze the problem							
		2	Creation mathematical models and solution methods implementation of some of the problems from our daily lives,							
		3	Creation a simple linear mathematical model.							
		4	Definition of algorithm and concept of the algorithm. Learning of the must-have features of algorithms.							
		5	Drawing flow diagram and testing algorithm.							
		6	Software development of algorithms for arrays and matrices.							
		7	Development of numerical methods and software algorithms that were seen in mathematics course.							
		8								
		9								
		10								
21	Course Content:									

2 Pro Moo dail	eoretical  Indeling concept. What is a mathematicaling? Establishment of the mathematical Solution of mathematical moderamples of mathematical moderamples of mathematical models.  Indeling solution of mathematical model and solutions of some problem ly life.  Indeling solution of some problem ly life.  Indeplication of numerical test methods opplication of approximate calculation thematics lessons).  Independent solution of solution of solution of solution. Features that should be in	ematical el. odeling. s in our	Practice				
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Mod dail 3 App (ap)	del and solutions of some problem ly life. plication of numerical test methods plication of approximate calculation thematics lessons).	s in our					
(ap	pplication of approximate calculation thematics lessons).  porithm concept and introduction of						
mat							
algo	orithm. Algorithm design.						
algo algo	wchart diagrams and basic structu orithms (linear, branching and loop orithms). Complex algorithms and octions. Algorithm applications.						
con	ftware is language. The structure omputer language (alphabet, specia pressions, rules, appearance).						
	plication of linear algorithms. Softw plications	are					
	plementation of branching algorithr ftware Applications	ns.					
	plementation of branching algorithr ftware Applications	ns.					
	plementation of looped algorithms. ftware Applications						
	plementation of looped algorithms. ftware Applications						
	olementation of looped orithms.Software Applications						
	orithms and software on arrays an trices. Software Applications	d					
	orithms and software on arrays an trices. Software Applications	d					
	xtbooks, References and/or Other terials:		1.http://web.firat.edu.tr/kimmuh/eskiweb/kimya/model.htm 2.http://www.hakankör.com.tr/Algoritma.pdf 3.Ders notları.				
<b>23</b> Ass	sesment						
TERM LEAF		NUMBE R	WEIGHT				
Midterm Ex	xam	0	0.00				
Quiz		0	0.00				
Home work	k-project	10	50.00				
Final Exam	1	1	50.00				
Total		11	100.00				
Contribution Success Gr	on of Term (Year) Learning Activitie rade	s to	50.00				
Contribution	on of Final Exam to Success Grade		50.00				
Total			100.00				
Measureme Course	ent and Evaluation Techniques Us	ed in the					
24 EC	CTS / WORK LOAD TABLE	1					

Number	Duration (hour)	Total Work Load (hour)		
14	2.00	28.00		
0	0.00	0.00		
12	5.00	60.00		
8	4.00	32.00		
0	0.00	0.00		
0	0.00	0.00		
0	0.00	0.00		
0	0.00	0.00		
1	1.00	1.00		
		121.00		
		4.03		
		4.00		
	14 0 12 8 0 0	14 2.00 0 0.00 12 5.00 8 4.00 0 0.00 0 0.00 0 0.00 0 0.00		

															1100	
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	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		l	LO: L	earr	ning (	bjec	tive	s P	Q: P	rogra	m Qu	alifica	tions	; ;		
Contrib ution Level:				2 low 3 N			Medi	dium 4 High			h	5 Very High				