	ROBOTIC CODING	G IN M	ATHEMATICS EDUCATION					
1	Course Title:	ROBOTI	C CODING IN MATHEMATICS EDUCATION					
2	Course Code:	İMÖ0026						
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	cle					
5	Year of Study:	2						
6	Semester:	3						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	2.00						
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:	Prof. Dr.	ADEM UZUN					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	auzun@	uludag.edu.tr					
17	Website:							
18	Objective of the Course:	The aim of the course is to enable teacher candidates studying in the department of primary school mathematics education to gain basic knowledge and skills related to robotics and coding in their field teaching.						
19	Contribution of the Course to Professional Development:	In today's world, where the importance of 21st century skills is constantly increasing, robotics and coding applications have become widespread to include the discipline of mathematics. For this reason, it is important that teacher candidates have these knowledge and skills before starting the teaching profession.						
20	Learning Outcomes:							
		1	Explains the basic understanding of robotics and coding					
		2	Recognize robotics and coding tools used in mathematics education					
		3	Can use robotics and coding tools used in mathematics education					
		4	Designs learning activities involving robotics and coding for mathematics education					
		5						
		6						
		7						
		8						
		9						
	I	10						
21	Course Content:	•						
		Co	ourse Content:					
	Theoretical		Practice					
1	General introduction of the course a presentation of the syllabus							
2	Definition and history of robotics and	d coding						

3		21. For mathematics education. Century skills and the importance of computer thinking skills																
4	Introduction to Robotics and Coding and basic concepts																	
5	Introduction to Robotics and Coding and basic concepts																	
6	Soft	Software tools used in the context of robotics and coding						S										
7	Software tools used in the context of robotics and coding							S										
8	Hard		e tools	used	in the	e conte	ext of r	obotio	cs									
9	Hard		e tools	used	in the	e conte	ext of r	obotio	cs									
10		dware codir		used	in the	e conte	ext of r	obotio	cs									
11						ties sp	ecific	to										
12	mathematics education Robotics and coding activities specific to mathematics education																	
13	Robotics and coding activities specific to mathematics education																	
14	Gen	eral ı	review	and s	summ	ary												
22	Text	book	s, Re	ferenc	es an	d/or O	ther									Projesi)		
Activit	Activites							STEM Eğitimi Uygulamaları 1 -, Pusula Yayıncılık Number Duration (hour) Total Wo Load (ho										
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Practic	als/La	abs								0			0.00				0.00	
Selfzstudy and preperation 0								o			3.00				42.00			
Homeworks								4			5.00	0.00			0.00			
	ield Studies 1								60 ² .00 0				0.00			0.00		
													10.00			10.00		
Others	term exams itribution of Term (Year) Learning Activities to ers								0			0.00	0.00			0.00		
Eional rÆ	তিকাদি হিমানিক of Final Exam to Success Grade							60	60100 2			20.00	20.00			20.00		
Total V	Vork l	_oad														120.00		
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24					OAD	TAB	l F									4.00		
25		·						FIF	ΔRN	IING	OUT	OMF	S TO I	PROC	SR A M	MF		
	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	4	0	0	0	0	0	0	0	0	0	0	
ÖK2		0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	
ÖK3		0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	
ÖK4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	

LO: Learning Objectives PQ: Program Qualifications									
Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High				