	ADVAN	NCED	MATHEMATICS						
1	Course Title:	ADVANO	CED MATHEMATICS						
2	Course Code:	BLPZ102	2						
3	Type of Course:	Compuls	sory						
4	Level of Course:	Short Cy	rcle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	1.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to t	face						
14	Course Coordinator:	Öğr. Gör	. Dr. ABDURRAHMAN DAYIOĞLU						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	dayioglu	@uludag.edu.tr						
17	Website:								
18	Objective of the Course:	To be able to gain programmer logic, one learns mathematical concepts.							
19	Contribution of the Course to Professional Development:		ogrammer, one learns the necessary mathematical concepts to develop algorithms.						
20	Learning Outcomes:								
		1	Gains detailed knowledge of polynomials and factorization.						
		2	Will be able to make applications related to Functions.						
		3	Will be able to make applications related to the coordinate plane.						
		4	Better understands the loop logic that it may encounter in algorithms.						
		5	Gains knowledge of matrices that can be encountered in Machine Learning.						
		6	Gain knowledge of subjects such as determinants and series that may be encountered while working on artificial intelligence and big data.						
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	Course introduction and Polynomials	•							
2	Factorization								
3	Coordinate Plane and Analytics of th	e Point							
4	Analytics of the Line								

5	Relation and Function									
6	Inverse and Composite Function									
7	Graphs of Functions									
8	Parabola									
9	Inequalities									
10	Matrices									
11	Determinants									
12	Logarithm									
13	Sequences and Series									
14	Trigonometric Functions									
22	Textbooks, References and/or Oth Materials:	er	Prof. Dr. Basri Çelik, Temel Matematik, Dora Yayınevi,2016 Prof. Dr. Basri Çelik, Mesleki Matematik, Dora Yayınevi,2017							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	40.00							
Quiz		0	0.00							
Activit	es		Numbe	Duration (hour) Total Wor Load (hou						
Theore	tiçal , _ O()		40.00		3.00	42.00				
	iution of Term (Year) Learning Activ als/Labs	ities to	140.00		1.00	14.00				
Selftsty	 Holyoanof Papapestian to Success Gra	ide	601 0 0		4.00	56.00				
Homew			14		2.00	28.00				
Projects	S rement and Evaluation Techniques	Llood in the	Polativo o	valuation	0.00	0.00				
Field St	tudies		0	valliallilli	0.00	0.00				
M i⊉l 4ern	E⊗∓S / WORK LOAD TABL	E	1		4.00	4.00				
Others			0		0.00	0.00				
Final Ex	xams		1		6.00	6.00				
Total W	/ork Load					150.00				
Total w	ork load/ 30 hr					5.00				
ECTS (Credit of the Course					5.00				
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16										

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	4	3	2	4	5	5	2	2	2	0	0	0	0	0	0
ÖK2	5	5	3	2	3	5	5	2	2	2	0	0	0	0	0	0
ÖK3	4	4	2	2	3	4	4	2	2	2	0	0	0	0	0	0
ÖK4	5	5	4	2	3	5	5	2	2	2	0	0	0	0	0	0

ÖK5	5	5	3	5	5	5	3	2	2	2	0	0	0	0	0	0
ÖK6	5	5 I		5 .earr					2 Q: P		0 m Qu	0 alifica			0	0
Contrib 1 very low 2 le ution Level:				2 low		3 Medium 4 High						5 Very High				