PYTHON PROGRAMMING AND APPLICATIONS									
1	Course Title:	PYTHON	PROGRAMMING AND APPLICATIONS						
2	Course Code:	EEM412	1						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
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:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr.	GIYASETTİN ÖZCAN						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Bilgisaya Tel.:+90 email: go	ır Müh. Bölüm Binası, 1. kat, oda 107 (224) 294 2792 ozcan at uludag.edu.tr						
17	Website:								
18	Objective of the Course:	To learn python. To do machine learning implementations with Python. To develop deep learning implementations.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
	•	1	Student will be able write codes with Python.						
		2	Students will learn algorithm desing for a specific problem and coding.						
		3	Students will understand fundamental concepts of machine learning and its coding						
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		5							
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		7							
		8							
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Introduction to Python Programming								
2	Basic data types, lists, tuples, diction operators	ary, logic							
3	Member operators, identity operator,	if loop							
4	for and while loops								

5 f	function call, taking argument																
6	Modules, packages																
7 E	Exception handling																
8	Class concept																
9 5	Summation of studies concepts																
10 I	nheritan	ce, en	capsu	lation													
11 (GUI																
12	Web framework																
13 N	Machine Learning, installation and first applications																
14 N	Machine Learning II, applications and deep learning																
22	Textbooks, References and/or Other					Le	Lecture notes										
23	Assesme	ent															
TERM LE	EARNING	ACTI	VITIES			N	UMBE	WE	EIGHT								
Midtorm	Exom					R		25	25.00								
						0		20	25.00								
Home w	ork-proje					2		15	.00								
Final Ex	Home work-project 2						60										
Activites					ľ	Number D			Dura	Duration (hour) I otal Wo			Vork				
															2000 (.	lour)	
Cheoristical of Final Exam to Success Grade					60	6 016 0 3.00 42.00											
Practicals/Labs						. (0			0.00	0.00			0.00			
Relatively and an are reliantion Techniques Used in the						e (0.00			0.00							
Homeworks							2			9.00	9.00		18.00				
Prefect ECTS / WORK LOAD TABLE						(0			0.00			0.00				
Field Stu	ield Studies						(0			0.00			0.00			
Midterm	lidterm exams							1			30.00	30.00			30.00		
Others	thers						(0			0.00			0.00			
Final Exa	nal Exams						·	1			30.00			30.00			
Total Wo	Total Work Load												120.00				
Total wo	Fotal work load/ 30 hr												4.00				
ECTS Credit of the Course										4	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	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	0	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	
																-	
ÖK3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					