R	PROGRAMMING AND	MAC	HINE LEARNING APPLICATIONS					
1	Course Title:	R PROG	RAMMING AND MACHINE LEARNING APPLICATIONS					
2	Course Code:	EEM412						
3	Type of Course:	Optional						
4	Level of Course:	First Cyc	le					
5	Year of Study:	4						
6	Semester:	8						
7	ECTS Credits Allocated:	5.00						
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 f	ace					
14	Course Coordinator:	Doç. Dr.	GIYASETTİN ÖZCAN					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	Tel.:+90	nr Müh. Bölüm Binası, 1. kat, oda 107 (224) 294 2792 ozcan at uludag.edu.tr					
17	Website:							
18	Objective of the Course:	To learn the logics of R programming. To learn fundamental concepts of R programming. To learn the concepts of CRAN and Bioconductor packages. To learn to implement machine learning applications						
19	Contribution of the Course to Professional Development:	Writing general purpose R program codes						
20	Learning Outcomes:							
		1	Students will learn to install R and R studio					
		2	Students will learn to exploit CRAN and Bioconductor packages.					
		3	Students will be able to write machine learning implementations with R.					
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21	Course Content:							
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	Theoretical		Practice					
1	R and R Studio Installation, basic implementation							
2	Fundamental artihmetic operators							
3	Variables							

4	For, if lo	oops															
	While, switch loops																
6	R functions																
7	Vector, matrice																
8	Data frame, factor																
9	CRAN packages, graphics																
10	Machine learning implementations																
11	Bioconductor packages							Т									
12	Bioinformatics implementations																
13	Deep learning packages																
14																	
	Textbooks, References and/or Other Materials:						Le	Lecture Notes									
	Assesm																
TERM LI						IUMBE R	WE	WEIGHT									
Midterm	Exam					1		35	35.00								
Quiz						0)	0.0	0.00								
Home w	ork-pro	ject				2	2	5.0									
Final Ex	am					1		60	60.00								
Activites						1	Number			Duration (hour)			Total Work Load (hour)				
Chectriletiticaln of Final Exam to Success Grade						60	60140			3.00			42.00				
Practica	Practicals/Labs							(0			0.00			0.00		
Melastrement ลหยายงสเฉลาion Techniques Used in the						е Ме	Measurement and evaluation is carried out according					g to					
Homeworks						(0			0.00			0.00				
Projects / WORK LOAD TABLE						19	0			0.00			0.00				
Field St	Field Studies							(0						0.00		
	lidterm exams							_	1			50.00			50.00		
Others	hers								0			0.00			0.00		
	Final Exams						ľ	1			58.00			58.00			
	Total Work Load												200.00				
	Total work load/ 30 hr												5.00				
ECTS Credit of the Course									5.00								
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	PQ	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	5	5	3	3	2	1	1	1	1	1	1	1	0	0	0	0	
ÖK2	5	2	2	3	2	1	1	1	1	1	1	1	0	0	0	0	
ÖK3	5	5	3	3	2	1	1	1	1	1	1	1	0	0	0	0	
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LO: Learning Objectives PQ: Program Qualifications																	

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