	MACHINE LEARNING											
1	Course Title:	MACHIN	IE LEARNING									
2	Course Code:	BLPS24	14									
3	Type of Course:	Optional										
4	Level of Course:	Short Cy	cle									
5	Year of Study:	2										
6	Semester:	4										
7	ECTS Credits Allocated:	3.00										
8	Theoretical (hour/week):	2.00										
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:	Öğr. Gör	. AHMET DARTAR									
15	Course Lecturers:											
16	Contact information of the Course Coordinator:	ahmetda Bursa Ul	rtar@uludag.edu.tr, (0 224) 294 26 62, udağ Üniversitesi Karacabey MYO Bilgisayar Programcılığı									
17	Website:											
18	Objective of the Course:	The aim basis of i them on	of this course is to provide students with the theoretical machine learning algorithms and practical application of real-world data sets.									
19	Contribution of the Course to Professional Development:	For a pro the adva methods	bblem whose parameters are given, the student can reveal ntages and disadvantages of different machine learning .									
20	Learning Outcomes:											
		1	Describe basic machine learning concepts									
		2	Solve a particular problem that includes one of the learning types									
		3	Apply machine learning techniques on given dataset									
		4	Develop a project with use of a machine learning approach									
		5	Evaluate a leaning model									
		6										
		7										
		8										
		9										
		10										
21	Course Content:											
		Co	urse Content:									
Week	Theoretical		Practice									
1	Introduction to Machine Learning											
2	Applications of Machine Learning											
3												
4												
5	Regression Algorithms											

6	Class Mach	sifica nine)	ation A	Algorit	hms (Suppoi	rt Vec	tor													
7	Classification Algorithms (Artificial Neural Network)																				
8	Mid-t	Mid-term exam																			
9	Class Algo	sifica rithm	ation A	Algorit	hms (K-near	est N	eighbo	or												
10	Clas: Algo	sifica rithm	ation A	Algorit	hms (Naive I	Bayes	;													
11	Class	sifica	ation A	Algorit	hms (Decisio	on Tre	e)													
12	Clust	terin	g Algo	orithm	s (K-N	leans /	Algori	thm)													
13	Clustering Algorithms (Single Linkage Clustering Algorithm-SLINK/Complete Linkage Clustering Algorithm-CLINK)																				
14	Ense Perfo	Ensemble Learning Algorithms and Classifier Performance																			
22	Textbooks, References and/or Other Materials:								1- Le 2- 00 3-/ Als	1-Ethem ALPAYDIN (2010). Introduction to Machine Learning, The MIT Press, second edition. 2-Tom Mitchell,McGraw-Hill. Machine Learning. ISBN 0070428077. 3-Atınç Yılmaz, Makine Öğrenmesi: Teorisi ve Algoritmaları, Papatya Bilim Yayınevi, 2018											
23	Asse	esme	ent																		
TERM L	I LEARNING ACTIVITIES NUMBE									WEIGHT											
Activit	Activites									Numb	ber		Dura	ition (hour)	Total Work Load (hour)					
Theore	Jone work-project o									14			2.00	2.00			28.00				
Practic	acticals/Labs									0			0.00		0.00						
Self stu	elf study and preperation									14			2.00	2.00			28.00				
Homew	Iomeworks									14			2.00	2.00			28.00				
Broject	Tojects									0			0.00	0.00			0.00				
Field S	eld Studies									0			0.00	0.00			0.00				
Midtern	dterm exams									1			3.00		3.00						
Others	hers									0			0.00		0.00						
Final E	al Exams									ndergra	aduate	Educat	io B .00		3.00						
Total W	otal Work Load														93.00						
Total w	otal work load/ 30 hr															3.00					
ECTS	IS Credit of the Course															3.00					
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16				
ÖK1	2	2	4	2	5	3	3	3	2	2	3	2	0	0	0	0	0				
ÖK2	2	2	4	2	5	3	3	3	2	2	2	2	0	0	0	0	0				
ÖK3	2	2	4	2	5	3	3	2	2	2	2	2	0	0	0	0	0				
ÖK4	4	ļ	5	2	4	3	4	2	3	3	3	3	0	0	0	0	0				

ÖK5	2	4	2	5	3	3	3	2	2	3	2	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow	3 Medium			4 High			5 Very High					