DATA MINING

1	Course Title:	DATA MINING	
2	Course Code:	BLPS2313	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	3	
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 face	
14	Course Coordinator:	Öğr. Gör. AYŞE BAŞTUĞ KOÇ	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	aysebastugkoc@uludag.edu.tr, +902242942677, Bursa Uludağ Üniversitesi Gemlik Asım Kocabıyık MYO Bilgisayar Programcılığı-Gemlik/Bursa	
17	Website:		
18	Objective of the Course:	It is to introduce various data mining techniques to our students and to give information about their applications in real life problems.	
19	Contribution of the Course to Professional Development:	Thanks to this course, data belonging to real-life problems will be interpreted with data mining methods and will help process improvements.	
20	Learning Outcomes:		
		1	Gain knowledge and skills to learn and apply the basic concepts, techniques, and tools of Data Mining.
		2	Learns data preprocessing-(Data cleaning, merging) methods.
		3	Learns data reduction methods.
		4	It can make important unknown inferences from the dataset.
		5	Learns classification and clustering methods with supervised and unsupervised methods.
		6	Gains knowledge of association rules.
		7	Gains knowledge about Data Mining applications and can develop applications.
		8	
		9	
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction to Data Mining	
2	Data Mining Concepts and Data Preprocessing Techniques	

3	Data Reduction	
4	Data Warehouses and Olap	
5	Data Mining Process	
6	Classification Methods	
7	Classification Methods	
8	An overview and Midterm	
9	Regression Models	
10	Clustering Methods	
11	Association Rules	
12	Current Technology and Tools Used in Data Mining	
13	Text Mining and Web Mining	
14	Data Mining Application Areas and Examples	

22	Textbooks, References and/or Other Materials:	Data Mining – Concepts, Models, Methods and Algorithms, Mehmed Kantardzic, 2019. Silahtaroğlu,G., Veri Madenciliği, Papatya Yayınevi,2008. Lecture Notes.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Home work-project	0	0.00
Total	2	100.00
Success Grade		
Total		100.00
Course		students' learning in the course.

24 ECTS / WORK LOAD TABLE

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self-study and preperation	14	2.00	28.00
Homeworks	14	2.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	3.00	3.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	4	2	3	5	5	5	1	1	1	1	0	0	0	0	0
ÖK2	4	5	2	4	5	5	5	1	1	1	1	0	0	0	0	0
ÖK3	3	4	2	5	3	3	3	1	1	1	1	0	0	0	0	0
ÖK4	4	5	2	4	5	4	2	1	1	1	1	0	0	0	0	0

ÖK5	3	4	2	5	5	3	3	1	1	1	1	0	0	0	0	0
ÖK6	3	3	2	4	4	3	3	1	1	1	1	0	0	0	0	0
ÖK7	4	5	3	4	5	3	3	1	1	1	1	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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