

Course Name	Course Code	semester	T + P	Credit	ECTS
Data Mining			3+0	3	6

Prerequisite Courses	None
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Language of Course	Turkish
Course class	Compulsory
Coordinator of Course	Yrd.Doç.Dr. İbrahim Berkan AYDİLEK
Instructor	Yrd.Doç.Dr. İbrahim Berkan AYDİLEK
Course Assistant	
Objective of Course	This course is aimed at general purpose students; how to make the data stacks increasing in parallel with the development of backup environments, how to perform the necessary operations to provide useful information for decision support systems. It is aimed to determine how confidential information, patterns and rules contained in the data can be determined and how the data can be understood and the evaluation methods of the obtained findings.
Course Learning Output	Students who have successfully completed this course: <ul style="list-style-type: none"> • Describe the concept of data mining, • Design data mining programs, • Describe various applications of data mining.
Course Contents	Classification, clustering and association rules and data analysis, text and web mining

Weeks	Topics
1	Introduction to data mining
2	Data
3	Data Preprocessing
4	Classification with Decision Trees
5	Classification and Evaluation
6	K-means algorithm
7	Memory-Based Classification
8	MIDTERM
9	Statistical Classification Models
10	condensation
11	Rules of Association
12	Text and Web Mining
13	Advanced data mining algorithms
14	Data mining algorithms application programs
15	FINAL EXAM

General Sufficiency
It is important for students to be able to design algorithms by means of data mining and to develop software with this in-language programming language.
References
<ul style="list-style-type: none">• Jiawei Han, Micheline Kamber, Data Mining: Concept and Techniques, 2001• Mitchell Tom M., Machine Learning 1997• Veri Madenciliği Yöntemleri, Dr. Yalçın Özkan, Papatya Yayıncılık, 2008.
Assessment
Midterm exam: 40%, Final exam: 60%; Project or homework evaluations may be made at the beginning of the semester.