Course Name	Course Code	Semester	T + P	credit	ECTS
Data Structures		4	3 + 0	3	5

Prerequisite Courses	None

Language of Course	Turkish
Course class	Compulsory
Coordinator of Course	
Instructor	
Course Assistant	
Objective of Course	Teaching of different types of data structures used in computer science
Course Learning Output	The data structure of a given problem can be adapted and the problem solved by processing the specified data structure
Course Contents	Stacks, queues, linked lists. Dynamic memory allocation. Wood structures. B-trees and applications. Graphs, shortest paths, topological sorting. Sorting and searching techniques and performance. Static and dynamic trimming (hash) techniques.

Weeks	Topics
1	S tacks
2	Q ueues
3	Q ueues
4	Linked lists
5	Linked lists
6	Dynamic memory allocation
7	Wood structures
8	MIDTERM
9	Graphs
10	Graphs
11	Sorting and searching techniques
12	Sorting and searching techniques
13	Static and dynamic trimming (hash) techniques
14	Static and dynamic trimming (hash) techniques
15	FINAL EXAM

General Sufficiency
Considering the concepts of data structures and their problems and determining the structure of a given situation
References
Robert L. Kruse, Bruce P. Leung, Clovis L. Tondo, Data structures and program design of C Prentice Hall, 1997. Ford, William Topp, Data structures with C ++, Prentice Hall, 2002. Mark Allen, Data structures, and problem solving using C ++; Addison-Wesley, 1999.
Assessment
Midterm exam: 40%, Final exam: 60%; Project or homework evaluations can be made at the beginning of the semester.