

Code	: CEN 133
Language	: English
Class	: A-203
Credit	: (3+2)5
Schedule	- Monday and Tuesday 10:30-12:20 Wednesday 13:30-15:20
Lecturer	: Asist. Prof. Dr. Orhan DAGDEVIREN
Office	: C-201
Office hours	: Monday and Tuesday 13:30-15:20
Phone	: 407
-	-
Lab hours	: Wednesday 13:30-15:20

- Syllabus

1. Prerequisites	: No prerequisite.
2. Contents	: Algorithm and program concepts, number systems, data types and program design, recursion, structures, compound data, list operations, input and output of data, formulating abstractions with higher-order procedures, structured recursion, generative recursion, modularity, iterative processes, search and tree algorithms
3. Purpose	: The purpose of this course is to teach the basic algorithm design and the programming concepts.
4. Book	: "How to Design Programs: An Introduction to Computing and Programming" by Matthias Felleisen, Robert Bruce Findler, Matthew Flatt, Shriram Krishnamurthi. MIT Press 2001.
5. Attendance	: A student must attend 70% of the courses and 80% of the lab. work. Unless, he/she will be graded as NA.
6. Grading	: Homeworks % 10, Laboratory work % 20, Midterm % 30, Final % 40.
7. Academic honesty rules	: Due to academic rules, cheating is strongly prohibited. The penalty for the cheating is determined by the Izmir University.

- Schedule

Week	Date	Subject	Reading	Notes	Homeworks
1	27-28 September	Introduction to basic concepts	-	-	-
2	4-5	Algorithm and	-	-	-

	October	Program concepts			
3	11-12 October	Number systems	-	-	
4	18-19 October	Data types, Program Design Recipe	-	-	Homework 1
5	25-26 October	Recursion	-	-	-
6	1-2 November	Structures, data definitions and scope	-	-	-
7	8-10 November	Compound data	-	-	Homework 2
8	15-16 November	<b>Kurban Bayramı</b>	-	-	-
9	22-23 November	List operations	-	-	-
10	29-30 November	<b>Midterms</b>	-	-	-
11	6-7 December	Input and output of data	-	-	Homework 3
12	13-14 December	Formulating abstractions with higher order procedures	-	-	-
13	20-21 December	Structured recursion, Generative recursion, modularity and states	-	-	-
14	27-28 December	Iterative processes	-	-	Homework 4
15	3-4 January	Search and Tree Algorithms	-	-	-
16	10-11 January	<b>Final exams</b>			