

CENG 162 – Computer Programming

Semester: Spring 2016-2017

Course webpage: <http://ceng162.cankaya.edu.tr>

Lecture and Lab Notes: <http://webonline.cankaya.edu.tr>

Schedule:

Section 1-2-3: Lecture: Monday 13:20-15:10 LB05 and Tuesday 11.20 M101,

Lab 1-2 Friday 13:20-15:10 H314 and Lab3 15.20-17.10 H313

Section 4-5-6: Lecture: Monday 15:20-17:10 HA01 and Tuesday 14.20 HA03,

Lab 4-5 Wednesday 15:20-17:10 H313 and Friday Lab6 15.20-17.10 H313

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Instructor: Asst. Prof. Sibel Tariyan Özyer

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Description:

Programming in C language, Structure problem solving, Algorithm design concept, Pointers and pointer arithmetic, Dynamic memory allocation, Sorting algorithms, Basic data structures.

Text Book: C How to Program, 7/E. Deitel & Deitel. 2012, Prentice Hall.

References: Problem Solving and Program Design in C, J.R. Hanly and E.B. Koffman, 6th Edition.

Grading: Lab Work (% 30), Midterm (%30), Final (%40)

Outline:

Course Outline	
<i>List the topics covered within each week.</i>	
Week	Topic(s)
1	Overview of the C programming basics
2	Pointers and pointer arithmetic, Parameter passing (call by value, call by reference) Chapter 7.1, 7.2, 7.3, 7.4
3	Const Qualifier with pointers ,Sorting algorithms (Bubble sort) Chapter 7.5, 7.6
4	Sizeof operator, Pointer arithmetics, Pointers and arrays Chapter 7.7 , 7.8, 7.9
5	C characters and strings Chapter 8.1, 8.2, 8.3
6	Formatted input/output Chapter 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8
7	Review and examples
8	Structures (Struct) Chapter 10.1, 10.2, 10.3
9	Array of struct, Struct within struct, Pointer to struct Chapter 10.4, 10.5, 10.6
10	File IO (Text files) Chapter 11.1, 11.2, 11.3
11	File IO (Text files) Chapter 11.4, 11.5, 11.6
12	C data structures, Dynamic memory allocation: malloc, Link List Dynamic memory allocation: calloc,realloc Chapter 12.1, 12.2, 12.3,12.4 Chapter 14.9
13	Review and examples
14	Review and examples