ES112.01/02 : Algorithms & Computer Programming

COURSE CONTENT

Introduction to basic programming using computers and the C programming language. The algorithmic approach. Declarations, input/output, control structures, functions.

SCHEDULE

Section 01:
- Lectures Monday 11:00-12:00, Tuesday 11:00-13:00
- Laboratory: Thursday 10:00-12:00

Section 02:
- Lectures Monday 12:00-13:00, Tuesday 14:00-16:00
- Laboratory: Friday 12:00-14:00

INSTRUCTOR

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ASSISTANT

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TEXTBOOK

"C: HOW TO PROGRAM", by H. M. Deitel & P. J. Deitel.

GRADING

Laboratory Work	10%
Assignments	10%
Term Project	15%
First Midterm	15%
Second Midterm	20%
Final	30%

OUTLINE

- Basic Computing Concepts
- Introdcution to C Programming
- Structured Program Development
- Program Control
- Functions
- Arrays
- Pointers
- Characters and Strings
- Formatted Input/Output
- Structures, Unions, Enumerations, Bit Operations
- File Processing

IMPORTANT POINTS

- The grades for the laboratory work and assignment for each week are connected. The overall grade will be computed by taking the geometric average of the assignment and laboratory grades of the same week. Thus, the combined grade C_i (for week i) is given by $C_i = \sqrt{L_i \cdot A_i}$, where L_i is the lab grade for week i, and A_i is the assignment grade for the same week.
- If you do not attend a laboratory session, your lab grade for that week is 0. Your homework is thus automatically disqualified.
- If you are more than 10 minutes late to the laboratory session, you will not be admitted, and you will receive a grade of 0, with effects as above.
- If you attend a laboratory session, the minimum grade you can get is 1 point out of 100.
- If you fail to attend **at least 80%** of the laboratory sessions, you will **fail the course** and automatically **receive a grade of F**. Attendance **will** be taken in laboratory hours.
- The book is an important resource for this course, but it will not be followed chapter by chapter. We will cover the usual material, but in an unusual way and order. So, each exam will cover material presented in class. There will be no well-defined chapter range from the book. So it is strongly reccomended that you attend all lectures.
- Keep in mind that algorithmic thinking and programming is brand new for most of you, and you probably need to allocate more time to this course than others. Specifically, studying on the last night is not the way to go if you intend to pass this course with a reasonable grade.
- Check out the web page at “http://cse.yeditepe.edu.tr/˜ysafkan/es112/”. This is the page prepared by in the instructor.