

Syllabus

Code/Name	EEE 107 - C PROGRAMMING
Type	Required
Credit/ECTS	5/5
Hour per Week	5 (3+0+2)
Level/Year	Undergraduate/1
Semester	Fall
Classroom	A403 - A406
Content	Problem modeling, algorithms. Selection and repetition structures. Derived data structures, arrays. Abstraction, top-down design. Basic numerical methods.
Prerequisites	None
Textbooks	Primary C HOW TO PROGRAM, (FIFTH EDITION), HARVEY M. DEITEL, PAUL J.DEITEL, PRENTICE HALL, 2007 Lecture Notes
Objectives	<ul style="list-style-type: none">• To start computer programming using the block-structured programming method• To teach fundamental programming techniques and numerical methods commonly required in engineering applications. <p>This course is designed for first year computer engineering undergraduate students. Basic concepts of computer programming with Java will be taught. This course covers basic programming concepts such as variables, data types, iteration, methods, arrays, etc. Students who successfully complete this course;</p> <ul style="list-style-type: none">- Write, execute and debug code- Explain the differences between various types of data- Understand the concepts of condition and loop- To be able to reduce large problems into smaller sub-problems and to realize sub-problems by writing methods- Create and modify arrays- Understand the basics of object-oriented programming <p>will have the skills.</p>
Course Outcomes	In this course you will be able to: C01 Properly modeling a problem and developing an algorithm to solve it with a computer program C02 Designing, implementing and testing medium-sized computer programs. C03 Gaining familiarity with C programming language development environments C04 Mastering frequently used programming techniques C05 Becoming familiar with frequently used numerical method problems and solutions

1 Be able to assign values to variables using user-entered data, information from a file, or expressions
2 Be able to display information on an output that is visible to a user or data file
3 Design a program that selects a path or repeats a sequence of instructions based on true and false conditions
4 Create a procedure for code reuse and call the procedure when needed
5 Use an array of values and obtain values from the array or process values in the array

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Weekly Schedule of Topics

W	Topic
1	C Program writing and compilation, Program development phases, Algorithms (Flow Diagram and Pseudocode)
2	Introduction to C Language
3	Structured program development in C
4	C Program Control
5	C Functions
6	C Functions (continued), C arrays
7	C arrays (continued)
8	C pointers
9	C pointers (continued), C characters and strings
10	C Formatted Input/Output
11	C Structures, Compositions, Bit Manipulations and Enumerations
12	C File Processing
13	C Data Structures
14	C Preprocessor, Other C topics

Professional Contribution

Contribution to Program Outcomes*

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1											
CO2											
CO3											
CO4											
CO5											

* Contribution Level | 0: None | 1: Very Low | 2: Low | 3: Medium | 4: High | 5: Very High

Special Conditions • The consequence of violation of the attendance rule is to receive a grade of DZ.

Requirements

Course Policy

- You must attend at least 70% of the sessions including add-drop period.
- Be in the class on time.
- English should always be used to communicate with one another.
- Mobile phones should be switched off and put away during the class.
- You cannot talk to your friends during class no matter what the subject is.

Cheating & Plagiarism

- Copying or letting someone copy your work on exams, assignments, or reports is cheating.
- Cutting and pasting text, figures and tables from web sources or any other electronic source is plagiarism.
- The consequence of academic dishonesty is to receive a grade of FF for the course.

Evaluation

Midterm Exam	20%
Quizzes	30%
Assignment	10%

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<u>Final Exam</u>	40%
Total	100%

Rubric

Instructor

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Room		Office Hours	

Prepared by İbrahim Rıza Hallaç on june 10th, 2024