CS115 – INTRODUCTION TO PROGRAMMING

Instructor	İlker KORKMAZ e-mail: ilker.korkmaz@ieu.edu.tr web: http://homes.ieu.edu.tr/~ikorkmaz	
References	Textbook: A Book on C, Al KELLEY and Ira POHL, ISBN: 0201183994 Reference tutorials: Available C tutorials on the Web (ex: http://www.iu.hio.no/~mark/CTutorial/CTutorial.html). Free software: GNU Compiler Collection (a.k.a GNU C Compiler), www.gnu.org .	
Description	The objective of this course is to understand the concepts of structural programming design. Firstly, basic program codes will be copied and examined as an introduction. Then, basic data structures will be introduced. The most important part of the course is to understand the structure of any given problem and design an algorithm to implement the solution. C programming language will be used to implement any code in structural design. Every week of the semester, the students have to make their own applications for a given laboratory assignment.	
Outline	Lecture 1: An overview of C and using a compiler.	
	Lecture 2: Lexical elements, operators, and the C system.	
	Lecture 3: The fundamental data types.	
	Lecture 4: Flow of control.	
	Lecture 5: Functions.	
	Lecture 6: Arrays, pointers and strings.	
	MIDTERM	
	Lecture 7: Recursion.	
	Lecture 8: Bitwise operators, enumeration types, and the preprocessor.	
	Lecture 9: Structures and unions.	
	Lecture 10: Structures and list processing.	
	Lecture 11: Input/Output.	
	FINAL	
GRADING	Lab Work	20 pts.
	Homework	10 pts.
	Quiz	10 pts.
	Attendance	5 pts.
	Midterm	20 Pts.
	Final	35 Pts.
Office Hours	Thursday 14:00-16:00	