

Structured Programming

- **Course number and name:**
CC 112 – Structured Programming
- **Credits and contact hours**
Credits Hours: 3Hrs
Contact Hours: In Lecture 2Hrs, and In Tutorial 2Hrs
- **Instructor’s or course coordinator’s name**
Coordinator Name: Prof. Dr. Ahmed Fahmy
- **Text book, title, author, and year**
 - J.Hanly and E. Koffman, ”C Program Design for Engineers”, Addison Wesley, 2001.
- **Specific course information**
 - a. **Catalog description**
An introduction to C-language Programming is provided in this course, Variable/Constant definitions, Basic Programs, Sequential Programming, Conditional Programming, Looping and repetitions, Functions, Arrays as well as searching and sorting techniques.
 - b. **prerequisites or co-requisites**
Prerequisites: CC111
 - c. **Types of Course (required, elective, or selected elective course) in the program**
Required Course
- **Specific goals for the course**
 - a. **Specific outcomes of instruction**

After the completion of this course the students will be able to:

	Course Learning Outcomes	SO
1	Understand the structured programming techniques associated with the C-Language.	J
2	Understand the different techniques of C-language programming	A,B

Topics to be covered

- Overview of Programming and Problem Solving
- C Syntax and Semantics
- I/O Formatting and Arithmetic
- Conditions and Logical Expressions
- Selection Control Structures
- Repetitions
- Functions
- Arrays
- Programming applications – problem solving Techniques