

Programming Applications

- **Course number and name:**
CC 213 – Programming Applications
- **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 advanced C-language Programming is provided in this course: two dimensional arrays, strings, pointers, recursion, structures, bitwise-operators, input-output interfacing as well as text and binary files are covered in details. Projects are required from students to increase their skills in C programming.
 - b. **prerequisites or co-requisites**
Prerequisites: CC112
 - 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	Use the C-Language to implement applications to solve practical problems with special emphasis on some practical applications concerning different disciplines.	A,B
2	Understand files, pointers, and the Structure of the C-language programming	B
3	Design advanced applications and projects.	D,J

Topics to be covered

- Searching and sorting
- Two dimensional arrays
- Pointers
- Strings
- Structures
- Unions
- Recursion
- Text Files
- Binary Files
- Advanced Applications