

Advanced Programming

- **Course number and name:**
CC 319 – Advanced Programming
- **Credits and contact hours**
Credits Hours: 3Hrs
Contact Hours: In Lecture 2Hrs, In Tutorial 2Hrs
- **Instructor’s or course coordinator’s name**
Coordinator Name: Prof. Dr. Ahmed Fahmy
- **Text book, title, author, and year**
 - Deitel et al, “C# how to program”, Prentice Hall, 2002.
- **Specific course information**
 - a. Catalog description**
C# language constructs: data types – input/ output & control statements – modularity – arrays – strings – classes and inheritance- polymorphism.
 - b. prerequisites or co-requisites**
Prerequisites: CC215
 - c. Type of the 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	Develop engineering skills in the design and analysis programming of C# language.	J
2	Highlight the main features of the C# programming language.	D
3	Design and write a computer programming for complex system.	D

Topics to be covered

- An introduction to C# programming language
- Arrays, Iterations and Methods
- Input / output statement & conditional statements
- Windows application design
- Strings object and string methods
- Classes
- Inheritance
- Polymorphism
- Abstract classes