



Computer Programming (1)

Course Code	Course Num.	Course Name	Credit Hours	Lec	Lab	Tut	Prerequisites
CS	140	Computer Programming (1)	4	4	2	0	

Objectives:

- Introduce the student to the fundamentals of object-oriented programming, with emphasis on understanding functions, methods, variables, and control structures.
- Introduce the student to the basic concepts of classes and objects, and how to design object-oriented solutions for problems.
- Introduce the student to various tools used in programming, including editors, compilers, linkers, and loaders.

Syllabus:

- Fundamental concepts of object-oriented programming.
- Data types, control structures, functions, and arrays.
- Algorithms and problem-solving.
- An introduction to the concept of abstract data types and their implementation using classes.
- Analysis of problems using object-oriented concepts.
- Program correctness and verification.
- The mechanics of running, testing, and debugging.

References:

- C++ **HOW TO PROGRAM**, 5th edition, Deitel & Deitel, Prentice Hall.

