CSC112 INTRODUCTION TO PROGRAMMING

Learning Outcomes

- To understand the basics of writing computer programs.
- To understand basic programming concepts and constructs.
- To apply programming concepts in writing simple programs.

Content

Introduction to computer programming: High-level and Low-level Programming Languages;
Program writing tools: Editors; Language translators: Assemblers, Compilers, Interpreters,
Source code, Object code, Executable and extensions of the different files; Running a Program;
Programming concepts: Data types, Operators, arithmetic and logical expressions; Input/Output:
unformatted and formatted input/output and program interfaces; Control structures: Sequencing,
Selection and Repetition structures; Procedural abstractions: Functions and program structure,
Parameter passing by value, command line arguments, scope rules, external definitions;
Recursion; Practical Programming: Develop simple programs which utilize appropriately the
programming constructs learned: variables, expressions,
control statements, functions and recursion to solve simple problems.

Pre-requisites

None

Delivery

Lectures, tutorials and Labs