Course Name: Programming-1

General Information							
Course Code	COMP112	Level/Year	2/1	Required (R) / Selected Elective (SE)			
Credit Hours	Theory	2	Lab	1	Total	3	
Prerequisites	Nil	Course Coordinator		Dr. Muhammad Ali Mozhary			
Corequisites	Nil						

Course Code: COMP112

Course Description

This course emphasizes skills and concepts for the beginners essential to programming practice independent of the underlying paradigm and programming language. It also provides an overview of basic Elements of Java, Branching Mechanism, Iteration and loops.

Course Objectives : On completion of the course, the student will be able to:

- Make the student understand the different Data types and variables used in Java programming.
- Explain the branching mechanism as well as looping concepts for programming.
- Provide an overview of programming language, methods and arrays

Course Contents

List of Topics

CH 1: Introduction to Programming Language

CH 2: Variables and types

CH 3: Branching Mechanism

CH 4: Iteration and loops

CH 5: Selected Topics: Methods & Arrays

Textbook

Allen B. Downey, "Think Java: How To Think Like a Computer Scientist"

Reference Materials

• Savitch, W. J., Absolute Java

Course Learning Outcomes

CLO#01	Describe the basic elements of computer programming languages.			
CLO#02	Define the variables, looping and branching mechanism of the specific			
	programming language.			

CLO#03	Analyze a computing problem and implement it into a program for solution.	
CLO#04	Develop a program using an efficient technique to solve particular problem.	
CLO#05	Show the ability to perform in a group to design and develop a mini software project.	