

COURSE DESCRIPTION

Course No.: CC114	Course Title: Introduction to Programming Number of Hours: 2:2:3
Catalog Data: This course will present problem solving heuristics and structured programming techniques, present language independent data types, operations, programming constructs and statements, introduce arrays, and implement fundamental programs using an appropriate programming language.	
Text Book: Simply Visual Basic 2008, DEITEL, PAUL, Prentice Hall; 3 rd Edition 2008	
Reference: <ul style="list-style-type: none">• Walter J. Savitch, <i>Problem Solving with C++: The Object of Programming</i>, Addison Wesley.• Jeri R. Hanly, Elliot B. Koffman, <i>Problem Solving and Program Design in C</i>, Addison Wesley.• Dale, Weems, Headington, <i>Programming and Problem Solving with C++</i>, Jones and Bartlett Publishers International.	
Objectives: Upon completion of this course, students should be able to: <ol style="list-style-type: none">1. Apply problem solving techniques.2. Discuss data types, file types, constants and variables.3. Use the various mathematical, logical and relational operators.4. Construct statements (assignments, expressions and functions).5. Perform program design techniques (flowcharts and pseudo-code).6. Use programming constructs (repetition, selection and sequencing).7. Discuss data structures (arrays and linked lists).8. Design, write, run and debug introductory programs using the currently adopted programming language.	
Prerequisites: CC112 (Structured Programming)	