

<b>Course Code/Title:</b>	CS-110: Fundamentals of Computer Programming
<b>Credit Hours</b>	3-1
<b>Pre-requisite(s):</b>	
<b>Course Description:</b>	This is an introductory course on Programming Fundamentals for various computing and engineering disciplines where basic principles and techniques of problem solving are introduced through the use of a programming language. It includes introduction to basic concepts of computer programming in C++ language. Topics include Basic data types, Decision structures, Repetition structures, Arrays and strings, Procedures and functions, files and structures
<b>Outcomes:</b>	<p>After completing this course a student will be able to:</p> <ul style="list-style-type: none"> <li>• Become familiar with basic concepts involved in programming languages such as decision structures, loops, functions and file handling</li> <li>• Understand how to develop a structural program</li> <li>• Develop algorithms and write programs for real life problems</li> <li>• Become familiar with C++ Language</li> <li>• Understand a typical C++ program development environment</li> </ul>
<b>Course Contents:</b>	Introduction to C++ Programming and Data Types, Declarations, Initialization and Operators, Conditional Statements, Control Flow, Functions, Basic I/O, Arrays, Strings, Pointers, Bitwise Operators, Union, File I/Os and structures.
<b>Books:</b>	<p><b>Text books:</b>  <i>Object Oriented Programming in C++</i> by Robert Lafore</p> <p><b>Reference books:</b>  <i>C++ How to Program</i> by Dietel and Dietel</p>