

Course Title	PROGRAMMING PRINCIPLES II
Course Code	CSC 121
Course Purpose and Objectives	The purpose of this course is to provide knowledge on the advanced programming applications. Students will learn how to design more advanced programmes using C++. They will be introduced to object oriented programming in order to encourage students transform the structured thinking to object oriented thinking by using objects.
Learning Outcomes	<ol style="list-style-type: none"> 1. Demonstrate skills in advanced structured programming. 2. Implement advanced programming applications. 3. Make use of functions, arrays and pointers. 4. Apply the main concepts of object-oriented programming and develop applications using C++. 5. Use of classes and objects.
Course Content	<ul style="list-style-type: none"> • Syntax • Functions and an introduction to recursion • File processing • Arrays and vectors • Pointers and pointer-based strings • Classes and objects