

# Kantipur Engineering College

Dhapakhel, Lalitpur

Subject: Object-Oriented Programming

## Lab-1

Title:

**Basic introduction to C++**

Objective:

- To be familiar with basic syntax of C++ programming
- To learn problem-solving techniques using C++

Theory:

- Introduction to C++
- Header file(<iostream>)
- Preprocessor directives
- Namespace
- Main() function
- cin and cout
- manipulator (endl)
- const keyword
- data types
- variable and rules for declaring variables

## Lab exercises

1. Write a program to display the following in C++.  
Welcome to KEC.  
This is my first C++ program.
2. Write a program to input the length and breadth of a rectangle and find its area and perimeter.
3. Write a program to input five numbers and print percentages of each number on their sum.
4. WAP to input marks of 5 subjects and find percentage and division obtained by a student considering full marks of each subject is 100.
5. Write a program to calculate a simple interest amount for a deposit amount (P) kept in the bank for (n) years at the rate of (r) simple interest per annum by implementing the following categories of function.
  - i. Function with arguments and with return value
  - ii. Function with no arguments and no return value
  - iii. Function with arguments but no return value
  - iv. Function with no arguments but with return value