CL118 – Programing Fundamental Lab
OUTLINE (Tentative)

Course Code	CL118
Course title	Fundamental Programming Lab
Credit hours	1
Prerequisite	-

Assessment With weights		
	Lab Task	40
	Assignment	5
	Quiz	5
	Final	40

Topics covered in the lab, with number of lab sessions on each topic	**Duration**	**Topics**
	1(3hrs)	Introduction ● Let's know each other ● How things work
	2 (3hrs)	Linux ● An introduction to linux ● Linux installation ● Linux Terminal and Commands
	3(3hrs)	Git & GitHub ● Introduction to Github ● Basics of git ● Clone, add, commit, push

	4(3hrs)	Problem Solving ● Brain Teasers
	5(3hrs)	Anaconda ● Python script ● Basic python function

	6(3hrs)	Variables & expressions
		Import library
		Scope of variable
		    ● Local
		    ● Global
		
		Function
		    ● Built in
		    ● User define
		    ● Types of Function Parameter

	7(3hrs)	Input
		Operators
		Control structure
		    ● Statements
		    ● Iterations
		    ● Break point in control structure

	8(3hrs)	Lab task on functions & control structure
	9(3hrs)	List
	10(3hrs)	Nested List List Comprehension Tuple Dictionary
	11(3hrs)	File Handling

	12(3hrs)	C++
		    ● Header files
		    ● Using namespace std
		    ● Basic syntax
		    ● Datatypes

		● Variables ● Input & output
	13(3hrs)	Control statements in C++ ● If-else ● Nested if-else ● switch
	14(3hrs)	Control structure in C++ ● for loop ● while & do-while loop
	15(3hrs)	LAB EXAM