

Department of Computer Science

CL118– Programming Fundamentals Lab FALL 2021

Instructor Name: Muhammad Naveed/Mr.Faraz

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Office Location: M-109

Office Hours: Mon/Tues 8:30-11:00am

Course Information

Program: BS Computer Science Credit Hours: 1 Type: Core

Class Meeting Time: Section BCS-1A 10:00-1:00pm Friday

Class Venue: CS-Lab04

Course Description/Objectives/Goals?

The intent of this lab is to equip students with the concepts that build strong familiarization related to basic concepts of programming in C++, including basic data types, expressions, iterations, functions, arrays and pointers.

(Tentative) Grading Criteria

- 1. Lab Work (25%)
- 2. Ouizzes (15%)
- 3. Midterm Exam (20%)
- 4. Final Exam (40%)

Course Policies

- 1. Minimum of 50 is required to clear the lab
- 2. No makeup for missed quiz or Lab session
- 3. 80% attendance
- 4. F grade for every Plagiarism case!

Tentative Weekly Schedule

Week	Topics to be covered	Readings	Quiz?
2	Introduction, problem solving		
(Lab1)	and writing algorithms in		
	simple english		
3	Computational Problems,		
(Lab 2)	Algorithms and Problem		
	Solving using pseudo-code		
4	Starting up with Visual Studio		
(Lab 3)	IDE and Basic C++		
	programming and expression		
	evaluation		
5	If-Else, Type Casting and		
(Lab 4)	Basic arithmetic operations		
6	Switch statement, nested if		Quiz1
(Lab 5)	else		
7	Loops (while) with nested if-		
(Lab 6)	else		
8	Loops (for-loop, do-while)		
(Lab 7)	with nested if-else		
9	Lab Mid Term Exam		
(Lab 8)			
10	Parameter Passing (Pass by		
(Lab 9)	ref, pass by value), Function		
	Overloading		
11	Function Overloading &Intro		Quiz2
(Lab 10)	to File Handling		
12	1D Array, Operations on 1D		
(Lab 11)	array and File Handling		
13	Character Arrays, Operations		Quiz3
(Lab 12)	on char arrays,		
	multidimensional array and		
	array sorting		
14	2D matrix operations and		
(Lab 13)	Functions with 2D array		
1.7	parameters		
15	Lab Final Term Exam		
(Lab 14)			
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