

Lecture Zero Course Information

© **Dr. Mohammad Mahfuzul Islam, PEng** Professor, Dept. of CSE, BUET



Course Teacher & Class Time

Course Teacher

Part A
(C++ and Java)
(7 Weeks)

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Part B (Java) (7 Weeks)

Dr. Rifat Shahriyar

Professor, CSE, BUET

Class Time Table

Section A		
Day	Time	Room#
Sat	9am~10 am	
Sun	11am~12 am	107
Wed	10am~11 am	

Section B		
Day	Time	Room#
Sat	11am~12pm	
Sun	10am~11am	108
Wed	9am~10am	

	Section C	
Day	Time	Room#
Sat	10am~11am	
Sun	9am~10am	109
Wed	11am~12pm	

Nohammad Mahfuzul Islam, Dept of CSE, BUET



Start Up

Course Materials:

Visit regularly for course materials https://cse.buet.ac.bd/moodle/course/view.php?id=108

Prescribed Textbook for C++:

- ➤ Herbert Schildt, Teach Yourself C++, McGraw Hill, 3rd Edition.
- ➤ Robert Lafore and Waite Group, Object Oriented Programming in C++, Sams Publishing, 4th Edition.
- ➤ Herbert Schildt, The Complete Reference C++, McGraw Hill, 4th Edition.

Prescribed Textbook for Java:

- ➤ Herbert Schildt, Java The Complete Reference, McGraw Hill, 12th Edition.
- > Paul Deitel and Harvey Deitel, Java How to Program, Prentice Hall, 11th Edition.



Learning Schedule for Part A

Week	Lecture#	Topic to Learn	Programming Language
Week 1	1~3	Basic Features of OOP	
Week 2	4 ~ 6	Encapsulation – Data Hiding	
Week 3	7~9	Polymorphism	Both
Week 4	10 ~ 12	Inheritance	C++ &
Week 5	13 ~ 15	Exception Handling	Java
Week 6	16 ~ 18	Input - Output	Java
Week 7	19 ~ 21	Generic Class – STL & Collections	

Tight Schedule!

Vacation means Extra-Class!!



Marks Distribution

Distribution of Overall Marks:

Scope	Marks	Percentage
Attendance	30	10%
Class Test	90	30%
Final	210	70%
	Total	100%

Be sincere about attendance!!

Don't miss classes intentionally assuming that you will continue the remaining classes or your application will be granted.

Distribution of Attendance Marks:

Range of Attendance	Percentage	Marks
90% or Above	10%	30
85% to <90%	9%	27
80% to <85%	8%	24
75% to <80%	7%	21
70% to <75%	6%	18
65% to <70%	5%	15
60% to <65%	4%	12



Plagiarism

Plagiarism means using someone else's words or ideas without properly crediting the original author. International rules against plagiasms:

	Level of Plagiarism	Examples	Legal Actions
	Mild	 ✓ Source cited in text but left out of reference list. ✓ Quotation marks omitted around a quote. 	Grade penalty or automatic zero.
ſ	Moderate	 ✓ Text copied from a source with minor changes. ✓ Source text or ideas rephrased without citation. 	Failing grade on course
	Severe	 ✓ Patchwork of different texts or ideas submitted as original. ✓ Paper or documents written by someone else. 	Academic probation or expulsion



Mode of Learning OOP

Learn

Unlearn Relearn



OOP Programming Tools

Installation of VS Code:

- Visual Studio (VS) Code is free. Visit https://code.visualstudio.com/download to download VS code.
- Add extensions using extension button (three connected and one isolated rectangle). Write "C/C++" on search button and add extensions like C/C++ Compile Run, C/C++ intellisence, C/C++ Runner, C/C++ Extension Pack, etc.
- Don't forget to install Copilot. Open and use GitHub account.

Installation of Intellij:

- Download and install latest LTS version of JDK, say JDK 21 (although the latest version is 24, but non-LTS). Visit https://www.oracle.com/java/technologies/downloads/#jdk21-windows
- Download and install Intellij IDEA Community Edition (This is the only free version). Visit https://www.jetbrains.com/idea/download/?section=windows

Note: All C/C++ programs in the lecture notes are written using VS Code and Java Programs are written using Intellij IDEA Community Version.



Work hard! Be smart!!

Work Hard

- Don't miss classes. Huge syllabus.
 Don't assume that that you can learn later. More than 3k+ pages to read.
- Write each program of lecture notes at least once by your own.
 You will feel easy, but face difficulty when try to do.

Be Smart

- Understand the difference between smartness and cheating.
- ➤ Use smart tools for learning programming.
 You can use VS Code for C++/Java and Intellij
 for Java. Use of Intellisense and copilot in VS
 code raises your interest in coding.
- Get help from ChatGPT, copilot, Claude, etc.
 Roo Code May mind to solve easy problem