Curriculum plan (ODD Semester)

2025-26

Teacher Name: Neha Singh

Paper name: Programming using C++

Class type: BA (prog), Semester-I
Paper shared with: Dr. Reena Jain

S.No	Schedule	Topic
3.110	(Approximate)	Topic
1	August	Unit- 1 Introduction to C++: Overview of Procedural and Object-Oriented
		Programming, Using main() function, Header Files, Compiling and Executing Simple Programs in C++
		Unit-2 Programming Fundamentals: Data types, Variables, Operators,
		Expressions, Arrays, Keywords, Decision making constructs, Iteration, Type
		Casting, Input-output statements, Functions, Command Line Arguments/
		Parameters
		Assignment 1, Test and Quizzes
2	September	Unit-3 Object Oriented Programming: Concepts of Abstraction,
		Encapsulation. Creating Classes and objects, Modifiers and Access Control,
		Constructors, Destructors, Implementation of Inheritance and Polymorphism,
		Template functions and classes.
		Assignment 2, Test and Quizzes
3	October	Unit- 4 Pointers and References: Static and dynamic memory allocation,
		Pointer and Reference Variables, Implementing Runtime polymorphism using pointers and references
		Unit- 5 Exception and File Handling: Using try, catch, throw, throws and
		finally;
		Test and Quizzes
4	November	Unit- 5 Exception and File Handling: Nested try, creating user defined exceptions, File I/O Basics, File Operations
		Revision, Doubts Clearing, Viva

References

- 1. Stephen Prata C++ Primer Plus, 6th Edition, Pearson India, 2015
- 2. E Balaguruswamy Object Oriented Programming with C++, 8 th edition, McGraw-Hill Education, 2020
- 3. D.S. Malik, C++ Programming: From Problem Analysis to Program Design, 6 th edition, Cengage Learning, 2013