

SYLLABUS

Sl. No.	CONTENTS	Mapped CO
1	Implement programs on predefined streams.	CO1-CO5
2	Implement programs using functions (passing arguments, overloading).	CO1-CO5
3	Implement programs using class/object concepts. (Access specifiers, class members, static members)	CO1-CO5
4	Implement programs using friend functions.	CO1-CO5
5	Implement programs using constructor(s) and destructor.	CO1-CO5
6	Implement programs using operator overloading.	CO1-CO5
7	Implement various types of inheritance techniques.	CO1-CO5
8	Implement programs using virtual functions to achieve polymorphism.	CO1-CO5
9	Implement programs using File Streams	CO1-CO5
10	Implement programs on exception handling concepts.	CO1-CO5
11	Implement programs on generic programming concept with templates.	CO1-CO5
12	Implement containers in C++ (Sequence Containers and Associative Containers).	CO1-CO5

Learning Resources

Text Books

1. *Programming in C++*, Ashok N. Kamthane, 2nd Edition, 2013, Pearson.

References

1. *The C++ Programming Language*, Bjarne Stroustrup, 4th Edition, 2013, Addison-Wesley.
2. *Object-Oriented Programming Using C++ Paperback*, Joyce Farrell, 4th Edition, 2013, Cengage.

e-Resources and other Digital Material

1. <https://www.learncpp.com/>
2. https://onlinecourses.nptel.ac.in/noc21_cs02/preview
3. <https://www.educative.io/courses/learn-object-oriented-programming-in-cpp>
4. <https://www.youtube.com/watch?v=wN0x9eZLix4> (Learn Object Oriented Programming in C++, Beau Carnes, February 2021)
5. <https://www.geeksforgeeks.org/the-c-standard-template-library-stl/>