

Maharashtra State Board of Technical Education

Tutorial Planning

K2-B (TUT)

Institute Code and Name: 0078- K. K. Wagh Polytechnic, Nashik

Semester: Third

Academic Year: 2026-2027

Programme and Code: Information Technology (IF)

Course Index: 304

Course and Code: Object Oriented Programming using C++(OOP)

Course Code: 313304

Name of Faculty: Mrs. C.P.Borade

Scheme: K

CLASS: SYIF (Cray)

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Write C++ programs using classes and objects.
- CO2 - Develop C++ programs using constructors
- CO3 - Implement Inheritance in C++.
- CO4 - Implement Polymorphism in C++.
- CO5 - Develop C++ programs to perform file operations.

TUTORIAL PLANNING

Sr. No	LLO	Tutorial Title	Planned Date	Performance Date	Remark	Related selflearning (if any)
1	TLO 1.4	Special Operators in C++: Scope resolution operator	3/07/2026	3/07/2026		
2	TLO 1.4	Memory management operators, Manipulators	3/07/2026	3/07/2026		
3	TLO 1.5	Basic Input /Output operators and functions in C++	10/07/2026	10/07/2026		
4	TLO 1.5	Simple C++ Program	10/07/2026	10/07/2026		
5	TLO 1.5	Solve msbte questions related to Simple C++ Programs	17/07/2026	17/07/2026		
6	TLO 2.1	Inline function	17/07/2026	17/07/2026		
7	TLO 2.1	Static data members, Static member function	24/07/2026	24/07/2026		
8	TLO 2.2	Array of Objects	24/07/2026	24/07/2026		
9	TLO 2.2	Object as function arguments	31/07/2026	31/07/2026		
10	TLO 2.3	Solve msbte questions related to Array of Objects	31/07/2026	31/07/2026		
11	TLO 3.2	Types of Inheritance : Single Inheritance	7/08/2026	7/08/2026		
12	TLO 3.2	Multilevel Inheritance	7/08/2026	7/08/2026		
13	TLO 3.3	Abstract class	14/08/2026	14/08/2026		
14	TLO 3.3	Solve msbte questions related to Inheritance	14/08/2026	14/08/2026		
15	TLO 4.1	Concept of Pointer	21/08/2026	21/08/2026		
16	TLO 4.1	Pointer declaration	21/08/2026	21/08/2026		

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17	TLO 4.1	Solve msbte questions related to Pointer Programs	28/08/2026	28/08/2026		
18	TLO 4.1	Advantages of Pointers	28/08/2026	28/08/2026		
19	TLO 4.3	Introduction To Polymorphism	4/09/2026	4/09/2026		
20	TLO 4.3	Types of Polymorphism	4/09/2026	4/09/2026		
21	TLO 4.4	Overloading of unary operators	11/09/2026	11/09/2026		
22	TLO 4.4	Overloading of binary operators	11/09/2026	11/09/2026		
23	TLO 4.4	Solve msbte questions related to Operator Overloading	18/09/2026	18/09/2026		
24	TLO 5.2	Detection of end of file	18/09/2026	18/09/2026		
25	TLO 5.2	File modes	25/09/2026	25/09/2026		
26	TLO 5.4	Types of file: Random access	25/09/2026	25/09/2026		
27	TLO 5.4	Sequential access file	9/10/2026	9/10/2026		
28	TLO 5.4	Solve msbte questions related to File Handling Programs	9/10/2026	9/10/2026		
29	TLO 3.2	Solve programming problems using inheritance.	16/10/2026	16/10/2026		
30		Revision and doubt-solving session based on OOP topics.	16/10/2026	16/10/2026		

Mrs. C.P.Borade
(Name & Signature of Staff)

Ms. M. S. Karande
(Name & Signature of HOD)