

Certificate

This is to certify that Mr. / Ms. _____

studying in semester_____, class_____, of _____ having enrollment no. _____

has satisfactorily completed his / her term work in the subject **01AI0103 Object Oriented Design and Programming**, for the term ending in the month of _____ year _____.

Date: _____

Faculty In-Charge

Name: _____

Signature: _____

Head of Department: _____

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TW Assessment (Rubric)

Object Oriented Design and Programming - 01AI0103

Semester 2 – 2025-2026

Name:

Enrolment No.:

Rubric Measurable parameters - **RBP- 1 Document Formatting (2), RBP-2 On-time submission (2), RBP-3 Student Active Participation (2), RBP-4 Student Attendance (2), RBP-5 Viva-voce(2)**

Understanding of Rubric for TW

RBP	Parameter	Description & Marking Criteria (Out of 2)
RBP -1	Document Formatting	2: Includes objective, Algorithm, Program, Output and Conclusion with proper formatting 1: Includes objective, Algorithm, Program, Output and Conclusion with Partially wrong formatting 0: No clear formatting/incomplete submission
RBP -2	On-time submission	2: Completed on time independently 1: Minor delay or needed help 0: Not completed or major delay
RBP -3	Student Active Participation	2: Regular, active, punctual participation 1: Limited participation or irregular 0: Absent or inactive
RBP -4	Student attendance	2: Very Regular and Punctual in lab 1: Frequently Irregular in lab 0: Very irregular in lab
RBP -5	Viva-voce	2: Logical interpretation + relates to theory 1: Basic discussion, lacks depth 0: Misinterprets or no discussion

Lab Faculty Signature and Name

Practical – 1

Practical – 1

- 1) Write a C++ Program to find the Odd or even number.**

Output:

2) Write a C++ Program to find out positive or negative number.

Output:

3) Write a C++ Program to find the greatest of 3 numbers.

Output:

4) Write a C++ Program swapping of 2 numbers.

Output:

5) Write a C++ Program to find the Sum of natural numbers.

Output:

6) Write a C++ program to check whether leap year or not.

Output:

7) Write a C++ Program to check whether prime number or not.

Output:

8) Write a C++ Program to check whether palindrome or not.

Output:

9) Write a C++ Program to find out the sum of digits.

Output:

10) Write a C++ Program to find the factorial of numbers.

Output:

11) Write a C++ Program to reverse the given numbers.

Output:

Practical – 2

Practical – 2

12) Write a C++ Program for doing arithmetic operations using function that program includes the following functions – Addition, Subtraction, Multiplication, Division and Modulus.

Output:

13) Write a C++ Program to find the cube of number using function.

Output:

14) Write a C++ Program to find the area of circle, triangle and rectangle.

Output:

15) Write a C++ Program to Convert Fahrenheit to centigrade and centigrade to Fahrenheit using function.

Output:

16) Write a C++ Program to find GCD of two numbers using function.

Output:

Practical – 3

Practical – 3

17) Write a C++ program to find the multiplication values and the cubic values using the inline function.

Output:

18) Write a C++ program to find Square of a number using inline function.

Output:

19) Write a C++ program to find volume of cube, cylinder, sphere by function overloading.

Output:

20) Write a C++ program to calculate the area of circle, rectangle and triangle using function overloading.

Output:

Practical – 4

Practical – 4

21) Write a C++ program to create class methods inside the class definition.

Output:

22) Write a C++ program to define a class method outside the class definition.

Output:

23) Write a C++ program to add two integers using class.

Output:	

24) Write a C++ code for read and print student information using class.

Output:

25) Write a C++ code to check whether a no is Prime or not using class.

Output:

26) Write C++ program to add complex numbers using friend function

Output:

Practical – 5

Practical – 5

27) Write a C++ Program To calculate Volume of Box using Constructor.

Output:

28) Write a C++ Program to demonstrate the Concept of Destructor.

Output:

Practical – 6

Practical – 6

29) Write a C++ Program for Enter Patient details using Inheritance.

Output:

30) Write a C++ Program to show access to Private Public and Protected using Inheritance.

Output:

Practical – 7

Practical – 7

31) Write a C++ Program to demonstrate Run time Polymorphism.

Output:

32) Write a C++ Program to illustrate the use of pure virtual function in Polymorphism.

Output:

Practical – 8

Practical – 8

33) Write a C++ Program to Read and Write File Opera on in File Handling.

Output:

34) Write a C++ Menu Driven Program to perform Add, Modify, Append and Display.

Output:

Practical – 9

Practical – 9

35) Write a C++ Program to find Largest among two numbers using function template

Output:

36) Write a C++ Program to Swap data using function template

Output:

37) Write a C++ Program to Swap data using function template

Output:

Practical – 10

Practical – 10

38) Write a C++ Program to Demonstrate try, catch block using exception handling.

Output: