

MARIS STELLA COLLEGE (AUTONOMOUS), VIJAYAWADA -8
(Affiliated to Krishna University, Machilipatnam)
SYLLABUS

Subject: Computer Science	Semester: I	
Course Title: Programming with C++ - Practical	Course Code: 20CSP1PC12	
No of Hours: 30	LTP: 002	Credits: 2

Objectives

- To practice the C++ syntax and write programs.
- To identify and program the OOPs concepts and techniques.

Course Outcomes

- CO1:** Apply the programming concepts and write simple programs in C++.
- CO2:** Develop simple code to solve a problem.
- CO3:** Implement the programming with real time concepts.

List of practicals:

1. Write a program to learn elementary techniques involving arithmetic operators (using switch).
2. Write a program to find greatest among 3 numbers from a list of given integers (using if -else).
3. Write a program to check whether a given number is Prime or not.
4. Write a program to print the sum of digits of a number using for loop.
5. Write a program to check whether a number is Palindrome or not.
6. Write a program to print the sum of digits of a number using for loop.
7. Write a program to print the following pattern using Nested Loop.
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8. Write a program to demonstrate call by value and call by reference in Functions.
9. Write a Program to calculate area of a Circle, Square and Rectangle using Functions
10. Write a program to find the factorial of a given number using Recursion.
11. Write a program to generate Fibonacci series using Recursion.
12. Write a program to check whether a number is Armstrong or not.

13. Write a program to demonstrate Classes.
14. Write a program to demonstrate one dimensional Array and Two dimensional arrays.
15. Write a program to perform matrix addition and subtraction.
16. Write a Program to demonstrate String Functions.
17. Write a program demonstrate Structures
18. Write a program to demonstrate Union.

Reference Books

1. Programing with C by Reema Thareja
2. Data Structures using C++ by Semour Lipchutz

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Practical-Scheme of Valuation

Time: 3 Hrs.

Max. Marks: 50

Practical	Marks
Program Writing	15 M
Program Execution	15 M
Viva	10 M
Practical Record	10 M
Total	50 M