

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

**SYLLABUS**

**Subject: Computer Science**

**Semester: III**

**Course Title: Programming with  
C & C++ - Practical**

**Course Code: 20CSP3PC31**

**No. of Hours: 30      LTP: 002**

**Credits: 1**

**Objectives**

- To develop programming skills
- To plan structure and content, writing, updating and modifying computer programs for user solutions

**Course Outcomes**

**CO1:** Develop programming skills using the fundamentals and basics of C & C++ Languages.

**CO2:** Solve computing problems.

**CO3:** Apply various forms of inheritance.

**List of practicals**

1. Write C programs for
  - a. Fibonacci Series
  - b. Prime number
  - c. Palindrome number
  - d. Armstrong number.
2. 'C' program for multiplication of two matrices
3. 'C' program to implement string functions
4. 'C' program to swap numbers
5. 'C' program to calculate factorial using recursion
6. 'C++' program to perform addition of two complex numbers using constructor
7. Write a program to find the largest of two given numbers in two different classes using friend function
8. Program to add two matrices using dynamic constructor
9. Implement a class string containing the following functions:
  - a. Overload + operator to carry out the concatenation of strings.
  - b. Overload == operator to carry out the comparison of strings.
10. Program to implement inheritance.

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**Practical-Scheme of Valuation**

**Time: 3 Hrs.**

**Max. Marks: 50**

<b>Practical</b>	<b>Marks</b>
Program Writing	15 M
Program Execution	15 M
Viva	10 M
Practical Record	10 M
<b>Total</b>	<b>50 M</b>