ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

III SEMESTER **COMPUTER SCIENCE**  TIME:3HRS/WEEK

COM 3351(2) **PROGRAMMING WITH C &C++ LAB** MAX MARKS:50

w.e.f.20-21 admitted batch-“20AH” **SYLLABUS**

**OBJECTIVES:** To enable the students to:

* Describe the basics of SQL and construct queries using SQL.
* Know query languages associated with relational models

**COURSE OUTCOMES:**

After Completion of this course the student would be able to:

* Able to Understand And Visualise The Inner Workings Of Computer Systems.
* Describe The Advantages Of A High Level Language Like C/C++, The Programming Process, And The Compilation Process.
* Describe and Use Software Tools In The Programming Process.
* Apply good programming principles to the design and implementation of c/c++ programs.

1. Write C programsfor
   1. FibonacciSeries
   2. Primenumber
   3. Palindromenumber
   4. Armstrongnumber.
2. ‘C’ program for multiplication of twomatrices
3. ‘C’ program to implement stringfunctions
4. ‘C’ program to swapnumbers
5. ‘C’ program to calculate factorial using recursion
6. ‘C++’ program to perform addition of two complex numbers usingconstructor
7. Write a program to find the largest of two given numbers in two different classes using friendfunction
8. Program to add two matrices using dynamiccontructor
9. Implement a class string containing the following functions:
   1. Overload + operator to carry out the concatenation ofstrings.
   2. Overload == operator to carry out the comparison ofstrings.
10. Program to implementinheritance.

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