

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

SYLLABUS

Subject: Computer Science	Semester: IV
Course Title: Object oriented programming through Java - Practical	Course Code: 20CSP4PJ42
No of hours: 30	LTP: 002
	Credits: 2

Objectives

- To learn basic Java language syntax and semantics to write Java programs.
- To design and implement object oriented programming concepts in Java.

Course Outcomes

CO1: Write Java application programs using OOP principles

CO2: Develop Java programs to solve real world problems

CO3: Develop skills in internet programming using applets

List of practicals

1. Write a program to read ***Student Name, Reg. No, Marks[5]*** and calculate ***Total , Percentage, Result*** . Display all the details of students
2. Write a program to perform the following String Operations
 - a. Read a string
 - b. Find out whether there is a given substring or not
 - c. Compare existing string by another string and display status
 - d. Replace existing string character with another character
 - e. Count number of words in a string
3. Java program to implements Addition and Multiplication of two N X N matrices.
4. Java program to demonstrate the use of Constructor.
5. Calculate area of the following shapes using method overloading.
 - a. Triangle
 - b. Rectangle
 - c. Circle
 - d. Square
6. Implement inheritance between ***Person (Aadhar, Surname, Name, DOB, and Age)*** and ***Student (Admission Number, College, Course, Year)*** classes where ReadData(), DisplayData() are overriding methods.

7. Java program for implementing Interfaces
8. Java program on Multiple Inheritance.
9. Java program for to display ***Serial Number from 1 to N*** by creating two Threads
10. Java program to demonstrate the following exception handlings
 - a. Divided by Zero
 - b. Array Index Out of Bound
 - c. File Not Found
 - d. Arithmetic Exception
 - e. User Defined Exception
11. Create an Applet to display different shapes such as Circle, Oval, Rectangle, Square and Triangle.
12. Write a program for counting number of characters in a file

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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