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

V SEMESTER **COMPUTER SCIENCE**  Time: 3Hrs/Week

CS-E3-5653(2) **DATA SCIENCE LAB** Max.Marks:50

w.e.f. 20AH Batch **PRACTICALSYLLABUS**

**COURSE OBJECTIVES:**

* Understand the basics of Data Science
* To learn how to solve real-world problems using python
* Gain knowledge about the installation of python software

**COURSE OUTCOMES:** On successful completion of this practical course, student shall be able to:

* Apply data science solutions to real world problems.
* Implement the programs to get the required data and present the outputs using Python language.
* Execute statistical analysis with open python software.

**PRACTICAL (LABORATORY) SYLLABUS:**

1. Write a Python program to create a line chart for values of year and GDP as given below



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2.Write a Python program to create a bar chart to display number of students secured different grading as given below



1. Write a Python program to create a time series chart by taking one year month wise stock data in a CSV file.
2. Write a Python program to plot distribution curve.
3. Import a CSV file and perform various Statistical and Comparison operations on rows/columns. Write a python program to plot a graph of people with pulse rate p vs. height h. The values of P and H are to be entered by the user.
4. Import rainfall data of some location with the help of packages available in R Studio and plot a chart of your choice.

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