Chhattisgarh Swami Vivekananda Technical University, Bhilai (C.G.)

Branch: B Tech Honours (Artificial Intelligence)   **Semester: IV**

Subject: Data Visualization Lab   **Subject Code: B127492(022)**

Maximum Marks in ESE: 40

Prerequisite: Python or R

List of Experiments:-

1. Download the House Pricing dataset from Kaggle and map the values to Aesthetics

2. Use different Color scales on the Rainfall Prediction dataset

3. Create different Bar plots for variables in any dataset

4. Show an example of Skewed data and removal of skewedness

5. For a sales dataset do a Time Series Visualization?

6. Build a Scatterplot and suggest dimension reduction

7. Use Geospatial Data-Projections on datasets in http://www.gisinindia.com/directory/gis-data-for-india

8. Create the a trend line with a confidence band in any suitable dataset

9. Illustrate Partial Transparency and Jittering

10. Illustrate usage of different color codes

Reference Books:

1. Claus Wilke, "Fundamentals of Data Visualization: A Primer on Making Informative and Compelling Figures", 1st edition, O'Reilly Media Inc, 2019.