**Kumaraguru College of Technology, Coimbatore**

**Department of Computer Science and Engineering**

**U18ITI5201-Data Mining Techniques**

**Academic Year: 2024 – 2025(Odd Sem)**

**Data Retrieval and Exploration: Descriptive Statistics Using Python [CO1, K3]**

1.Explore and Import Python – statistics libraries

2. Understanding Descriptive Statistics

* Types of Measures
* Population and Samples
* Outliers

Choosing Python Statistics Libraries

Getting Started With Python Statistics Libraries

Calculating Descriptive Statistics

* Measures of Central Tendency
* Measures of Variability
* Summary of Descriptive Statistics
* Measures of Correlation Between Pairs of Data

Visualizing Data

* Box Plots
* Histograms
* Pie Charts
* Bar Charts
* X-Y Plots
* Heatmaps. Reference : <https://realpython.com/python-statistics/>

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| **Experiment Split-up** | **Marks** |
| Problem Analysis (5) |  |
| Program and Output (15) |  |
| Viva (10) |  |
| Total Marks (30) |  |
| Signature |  |