



**PRACTICAL ON DESCRIPTIVE STATISTICS FOR UNIVARIATE DATA (Code: IS01CAST52 (01 Credit))**

**LABORATORY WORK**

**List of Practical**

Sr.	Task Using MS-EXCEL
1	Tabulation of scientific data: Discrete and Continuous frequency table, Cumulative frequency table for attributes and variables
2	Diagrammatical presentation of scientific data: Pie chart, Bar chart, Cluster bar chart
3	Graphical presentation of scientific data: frequency curve, histogram, frequency polygon
4	Measures of central tendency: mean by direct method, and with change of origin and scale, and for classified frequency tabulated scientific data
5	Measures of central tendency: quantiles (including median) by direct method, graphically and for classified frequency tabulated scientific data
6	Measures of central tendency: mode by direct method, graphically and for classified frequency tabulated scientific data
7	Measures of dispersion: quartile deviation by direct method, graphically and for classified frequency tabulated scientific data
8	Measures of dispersion: mean deviation, standard deviation, coefficient of variation by direct method, and with change of origin and scale and for classified frequency tabulated scientific data
9	Moments: raw, central, skewness and kurtosis based on moments
10	Box-Whisker plot of five data characteristics and outlier values

**REFERENCE MATERIAL**

1.	Fred, Pyrczak (2017). SUCCESS at STATISTICS, A worksheet with Humor, 6 <sup>th</sup> Ed., Routledge, NY.
2.	Pal, N. And Sarkar, S. (2005). STATISTICS, Concepts and Applications, Prentice Hall of India, New Delhi.
3.	K.V.S. Sarma (2001). STATISTICS made Simple DO It Yourself on PC, Prentice Hall of India, New Delhi.

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*Julia*

