ITM(SLS) Baroda University School of Computer Science, Engineering, and Technology B. Tech Computer Science and Information Technology Semester-VII

Course Name: Probability and Statistical Modelling for Computer Science

Course Type: C2710D4

Unit	Syllabus
1	Introduction to Statistics- Origin, Meaning, and Purpose of Statistics,
	Scope, and Limitations of Statistics. Collection and Presentation of
	Data, Frequency Distributions Continuous Frequency Distribution,
	Graphical representation of data. Measures of Central Tendency-
	Mean, Median, Mode, Merits, and Demerits. Average of positions,
	Measures of Dispersion- Range, Quartile, Mean Deviation, Standard
	Deviation, Coefficient of Variations, Standard Deviation. Skewness,
	Kurtosis.
3	Correlation - Introduction of Correlation, Correlation Analysis-
	Significance and Types of Correlation- Positive, Negative, No
	Correlation, Linear & Non-Linear Correlation, Measure of
	Correlation- Scatter Diagram, Karl Pearson's Correlation,
	Spearman's Co-efficient Correlations.
	Regression Analysis- Introduction of Regressions, Lines of
	Regressions, Properties of Regression Lines, Regression Co-efficient
	and their properties.

% Syllabus completion: 50%