

**GOPALAN PRE UNIVERSITY COLLEGE (AS752)**  
**SUBJEC&code :Statistics(31)**

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<b>I PUC Statistics Syllabus (120 Hours)</b>	
<b>Pre – requisites</b> A Student must have the knowledge of the following mathematical concepts. a) Laws of indices. b) Common logarithms and its applications. c) Solving simultaneous equations. d) Set theory. e) Permutations and combinations.	(8Hours)
I. Introduction to Statistics and some basic concepts.	(7 Hours)
II. Organization of data.	(7 Hours)
III. Classification and Tabulation of data.	(10 Hours)
IV. Diagrammatic and Graphical representation of data	(10 Hours)
V. Analysis of univariate data. a) Measures of central tendency. b) Measures of position. c) Measures of dispersion. d) Moments, Skewness and Kurtosis.	(25 Hours)
VI. Analysis of bivariate data. Correlation and Regression.	(15 Hours)
VII. Association of attributes. Yule’s coefficient of association	(5 Hours)
VIII. Interpolation and Extrapolation (Only binomial method with one missing value)	(5 Hours)
IX. Theory of Probability.	(14 Hours)
X. Random Variable and Mathematical expectation of a discrete random variable	(14 Hours)

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**List of Practicals (40 Hours)**

1.	Formation of Univariate and Bivariate frequency distributions	(4 Hours)
2.	Preparation of blank tables and tables with information.	(4 Hours)
3.	Diagrammatic representation of data.	(4 Hours)
4.	Graphical representation of frequency distribution.	(4 Hours)
5.	Measures of central tendency and positions.	(4 Hours)
6.	Measures of dispersion,	(4 Hours)
7.	Measures of Skewness.	(2 Hours)
8.	Correlation.	(4 Hours)
9.	Regression.	(2 Hours)
10.	Association of attributes, Interpolation and Extrapolation.	(2 Hours)
11.	Probability applications	(2 Hours)
12.	Mathematical Expectation.	(2 Hours)
13.	Covariance and Correlation of Random Variables.	(2 Hours)