Veer Narmad South Gujarat University
First Year B.Com.
Semester - 1
Course Code - CE 120 A
Statistics for Business Paper - I
(Syllabus effective from Academic Year 2011-12 and onward)

Sr. No.	Course Inputs (As per UGC Model Curriculum)	Weightage
Unit 1	**CALCULUS:** (a) Rules for taking limit of a function (b) Definition and rules (without proof) of differentiation, derivatives of a composite and implicit functions, second order derivative, Maxima and Minima of a function and it's application to problems relating to business, commerce and economics.	20 %
Unit 2	**ANALYSIS OF CATEGORICAL DATA** Meaning of categorical data, consistency of categorical data, independent and association of attribute, various measures of association for classified data. (2x2 and 2xn)	20 %
Unit 3	**PROBABILITY:** Revision of probability. Conditional probabilities. Concepts of a prior and posterior probability Bays theorem and its application.	30 %
Unit 4	**STATISTICAL QUALITY CONTROL** Control Charts: Importance of statistical methods on industrial research and practice. Concept of statistical quality control (S.Q.C.) for variables and advantages. General theory control charts. Specification limits tolerance limits modified control limits and their inter relationship. Control charts for variable : $\overline{X}$ and R charts.	30 %

Books :

Pavate D.C. Bhagwat	:	The Element Calculus : Popular Prakshan, Bombay
Gupta S.P.	:	Statistical Method : S.chand & Co., New Delhi.
Rohtgi V.K.	:	An introduction to probability theory and mathematical statistics : Wiley Estem Ltd.
Sancheti D.C. Kapoor V.K	:	Statistics : Sultan chand & sons, New Delhi.
Grant E.L.	:	Statistical Quality Control : Me Graw Hill Books Co.