

Subject Code: 2CM1010112	Subject Title: : Basic Statistics Course Type: Core Elective: Statistics
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Course Objective: To provide basic information to students about the theoretical aspects of statistics and its usefulness in the field of commerce.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)		
Lecture	Tutorial	Practical	Credit	University Assessment	Institutional Assessment	Total
4	-	-	4	70	30	100

Subject Contents			
Sr. No	Topic	Total Hours	Weight (%)
1	Business Forecasting: Meaning and importance, types of forecasting, different methods of forecasting (i) theoretical explanation of regression analysis, index numbers, economic models, opinion poll method, extrapolation, graphical method. (ii) Theoretical explanation with numerical examples of exponential smoothing method.	9	25%
2	Linear Correlation: Concept of bivariate data, definition and types of correlation, definition of correlation coefficient(r), its properties and interpretation of values of r, Methods of finding correlation coefficient by using Karl Pearson method for bi-variate data and for frequency distribution data, Spearman's method for finding rank correlation coefficient for repeated and non repeated ranks.	9	25%
3	Matrix Algebra: Definition of matrix, different types of matrices ,Algebra of matrices(Addition, Subtraction, multiplication),determinant of a square matrix, definition of adjoint of a matrix, inverse of a matrix and its uses to solve simultaneous linear equation (up to three variables only) use of matrix in simple business applications.	9	25%
4	Demographic statistics: Meaning, definition and uses of demographic statistics, methods of collecting demographic statistics- registration method census method, analytical method. Mortality rates pertaining to (i) CDR (ii) SDR (iii) IMR, Birth rates pertaining to (i) CBR (ii) SBR (iii) Age specific birth rate, fertility rates pertaining to (i) GFR (ii) SFR (iii) TFR .	9	25%

Reference Books:

1. J.K.Sharma, Business statistics, Pearson , New Delhi

2. Ken Black, Business statistics, Jhon Wiley and sons (Asia) Pte. Ltd .Singapore
3. Sancheti and Kapoor , Business statistics , Sultan Chand And Sons , New Delhi
4. Srivatava O.S; A text book of demography, Vikas publishing.
5. Trivedi & Trivedi: Business mathematics, Pearson India ltd. New Delhi.