Subject Code: 2CM1010222	Subject Title: Fundamentals of Business Statistics -2 Course Type: Subject Elective: Statistics

Course Objective: To provide basic information to students about the Operation Research application and its development in the field of commerce.						
Teaching Scheme (Hours per week)				**Evaluation Scheme (Marks)**		
Lecture	**Tutorial**	**Practical**	**Credit**	**University Assessment**	**Institutional Assessment**	**Total**
3	-	-	3	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 Regression**: Concept of regression- Two lines of regression- Properties of regression coefficients –Forecasting on the basis of regression equation- Regression equation pertaining to linear model in the form $Y = \alpha + \beta x + U$ and relevant properties.	9	25%
3	Linear Programming: Definition and Formulation of L.P.P. solution by graphical method upto two variable- applications and uses of L.P.P.	9	25%
4	**Arithmetic and Geometric Progression:** Introduction of arithmetic progression and geometric progression, sum of series of n terms in arithmetic progression, arithmetic mean geometric mean, sum of series of n terms in geometric progression.	9	25%

Reference Books:

1. J.K.Sharma, Business statistics, Pearson, New Delhi
2. Gupta S.C., Fundamentals of Statistics, Himalaya Publishing house, Mumbai.
3. Sancheti and Kapoor , Business statistics , Sultan Chand And Sons , New Delhi
4. Trivedi & Trivedi: Business mathematics, Pearson India ltd. New Delhi.
5. Srivastava O.S; A text book of demography, Vikas Publishing
6. Ken Black, Business statistics, Jhon Wiley and sons (Asia) Pte. Ltd. Singapore