

**DEPARTMENT OF COMMERCE
SHYAM LAL COLLEGE
UNIVERSITY OF DELHI**

Paper- Ch 2.3

B.COM FIRST YEAR(2nd SEM)

SUBJECT

BUSINESS MATHEMATICS AND STATISTICS

S.N.	From	To	Topics
Week 1	2-Jan-17	7-Jan-17	UNIT-1: AM,GM,HM-properties and application
Week 2	9-Jan-17	14-Jan-17	Mode and Median including partition values-properties and application
Week 3	16-Jan-17	21-Jan-17	Measures of variation both absolute and relative values Range, Quartile deviation and mean deviation
Week 4	23-Jan-17	28-Jan-17	Standard deviation and variance calculation and properties
Week 5	30-Jan-17	4-Feb-17	UNIT-2: Simple linear correlation analysis-meaning and measurement.Karl pearson's correlation
Week 6	6-Feb-17	11-Feb-17	spearman's rank correlation and simple linear regression analysis
Week 7	13-Feb-17	18-Feb-17	Regression equation and estimation. Relationship between regression and Correlation coefficients.
Week 8	20-Feb-17	25-Feb-17	UNIT-3 Meaning and uses of index numbers,construction of index numbers,Aggregative average of price- Relatives simple and and weighted
Week 9	27-Feb-17	4-Mar-17	Test of adequacy of index numbers and construction of consumer price indices.components of time series additive and multiplicative
Week 10	6-Mar-17	11-Mar-17	Trend analysis-Moving average method and least square method
	13-Mar-17	18-Mar-17	MID SEMESTER BREAK
Week 11	20-Mar-17	25-Mar-17	UNIT-1 :Definition of Matrices,types and algebra of matrices.Application of matrices for solution to simple business and economics problem
Week 12	27-Mar-17	1-Apr-17	Calculation of values of determinants up to third order.finding inverse of a matrix through determinant- method. Solution of system of linear equation upto three variables
Week 13	3-Apr-17	8-Apr-17	UNIT-2: Differential calculus-: mathematical functions and their types- linear,quadratic,polynomial;concept of limit and continuity of a function.
Week 14	10-Apr-17	15-Apr-17	Concept of differentiation,rules of differentiation-simple and standard forms.Application of differentiation- demand and supply.Maxima and Minima of functions relating to cost,revenue and profit.
Week 15	17-Apr-17	22-Apr-17	UNIT-3 :Mathematics of Finance-simple and compound interest,rate of interest-nominal,effective and continuous and their interrelationship
Week 16	24-Apr-17	27-Apr-17	Compounding and discounting of a sum