

Revised syllabus (2019 Pattern) B.Com. Degree course (CBCS) Syllabus for

First Year B.Com Semester – I

Subject Name: - Business Mathematics & Statistics- I

Subject Code: - 114(A) - I

Objective of the Program

1. To introduce the basic concepts in Finance and Business Mathematics and Statistics
2. To familiar the students with applications of Statistics and Mathematics in Business
3. To acquaint students with some basic concepts in Statistics.
4. To learn some elementary statistical methods for analysis of data.
5. The main outcome of this course is that the students are able to analyze the data by using some elementary statistical methods

Unit No.	Unit Title	Contents	Purpose/Skills to be developed
1	Interest and Annuity	Interest: Concept of Present value and Future value, Simple interest, Compound interest, Nominal and Effective rate of interest, Examples and Problems Annuity: Ordinary Annuity, Sinking Fund, Annuity due, Present Value and Future Value of Annuity, Equated Monthly Installments (EMI) by Interest of Reducing Balance and Flat Interest methods, Examples and Problems.	<ol style="list-style-type: none">1. To understand the concept of Simple interest, compound interest, effect of compounding.2. To understand the concept of Annuity and its applications for EMIs and Amortization Schedule.
2	Shares and Mutual Funds	Shares: Concept of share, face value, market value, dividend, brokerage, equity shares, preferential shares, bonus shares. Examples and Problems Mutual Funds: Concept of Mutual Funds, Problems on calculation of Net Income after considering entry load, Dividend, Change in Net Asset Value (NAV) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.). Examples and Problems	<ol style="list-style-type: none">1. To understand the concept of shares and mutual funds.2. To understand contribution of shares and mutual funds in systematic investment plans3. To solve problems related to shares and mutual funds

3	Population and Sample	Definition of Statistics, Scope of Statistics in Economics, Management Science and Industry. Concept of population and sample, methods of data collection: Census and sampling with illustration. Methods of random sampling – SRSWR, SRSWOR, Stratified, Systematic (Description of sampling procedures only).	<ol style="list-style-type: none"> 1. Collection of data 2. Analyzing and interpreting data. 3. Knowing different method of sampling
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