

Syllabus of Mathematics & Statistics

Mathematics

- 1) Ratio, Percentage, Proportion and Partnership
- 2) Commission, Brokerage and Discount
- 3) Shares, Mutual Funds
- 4) Linear Programming
- 5) Functions & Derivatives
- 6) Applications of Derivatives
- 7) Interest and Annuities

Statistical Techniques

- 1) Introduction to Statistics
- 2) Collection, Classification and Tabulation of Data
- 3) Diagrams and Graphs
- 4) Measures of Central Tendency
- 5) Measures of Dispersion
- 6) Probability
- 7) Probability Distribution
- 8) Correlation Analysis
- 9) Regression Analysis
- 10) Time Series Analysis
- 11) Index Numbers
- 12) Decision Theory

Computer Systems & Applications

- 1) Data Communication, Networking and Internet
 - ✓ Network basics and Infrastructure

- ✓ Protocols – TCP/IP, OSI models
- ✓ Network media – Wired and wireless
- ✓ Network hardware – Hubs, Bridges, switches and routers

2) E- Commerce

- ✓ Definition of e-Commerce
- ✓ Features and types of e-Commerce
- ✓ E-Commerce security
- ✓ Encryption, digital signatures, SSL, etc

3) Database and SQL

- ✓ Introduction to databases
- ✓ SQL basics
- ✓ Simple queries
- ✓ Multi-table queries
- ✓ Nested queries

4) Introduction to C programming or Visual Basic

- ✓ Simple Programming concepts
- ✓ Control statements
- ✓ Arrays
- ✓ Writing programs

5) Spread Sheet

- ✓ Basics of MS-Excel, Creating and Navigating worksheets
- ✓ Multiple Spreadsheets
- ✓ Excel Functions
- ✓ Data Analysis