

**Indian Business Law, by Mandar Wadwani**

**Business Law, Third Edition by M. C. Kuchal, Vikas Publication**

**Mercantile Law, M. C. Kuchal, Vikas Publication**

**Mercantile Law, M. C. Shukla, S. Chand publication**

**Business Law, by Prof. Satya Vrata R. Patel – C. Jamandas Co. Ltd.**

**B.COM  
SEMESTER IV  
STATISTICAL TECHNIQUES II  
(Marks 100)**

**I. CORRELATION AND REGRESSION ANALYSIS : (30 MARKS-18  
LECTURES)**

- Meaning and types of correlation
- methods of studying correlation.
- Scatter diagrams,
- Karl Person's coefficient of correlation
- Spearman's rank coefficient of correlation,
- Properties of Karl Person's coefficient of correlation.
- Linear regression – meaning
- Regression lines and regression confidents.

**i. II . ELEMENTS OF PROBABILITY : (18 MARKS-16  
LECTURES)**

- Random experiments and events
- definition of probability
- Conditional probability.
- Addition and multiplication theorems (with proof).

- Mathematical expectation.

**III. THEORITICAL DISTRIBUTION : (18 MARKS-12 LECTURES)**

- Random Variable.
- Binomial ,Poisson and Normal distribution (with properties)

**IV .METHODS OF SAMPLING : (4 MARKS- 4 LECTURES)**

- Census enumeration and sample enumeration.
- Methods of sampling-
- Simple random sampling, Systematic sampling, Stratified sampling, Cluster sampling, Purposive sampling, Quota sampling and Multi – stage sampling.

**V .TESTS OF HYPOTHESIS AND ESTIMATION : (12 MARKS-15 LECTURES)**

- Sampling distribution.
- Standard error,
- Procedure of testing a hypothesis.
- Null and Alternative hypothesis.
- Type I & Type II errors.
- Critical region and level of significance.
- Test of significance for large samples.
- Sample mean and sample proportion- confidence limits
- population mean and population proportion

**VI. STATISTICAL QUALITY CONTROL: (18 MARKS-10 LECTURES-)**

- Meaning and Utility,
- Control charts for X,R,P&C

**Books for Study and Reference:**

7. Gupta S.P  
Statistical Methods, Sultan Chand and Sons
8. Sancheti D.C. and Kapoor V.K  
Statistics (Theory, methods and Application) Sultan Chand and Sons
9. Levin Richard I and Rubin David S.

- Statistics for Management, Prentice Hall of India
10. Gupta C.B  
Fundamental of Statistics, Himalaya Publishing House
  11. R.J.Shah  
Statistical Techniques.
  12. Neeta Mazumdar  
Statistical Techniques Rajhauns Vitaran,

**B.COM**  
**SEMESTER: IV**  
**Applied Component**  
**E-Commerce and E – Accounting**  
**(Marks: 100)**

**Unit I : E-commerce :**

- a) Introduction to E-Commerce : ( 10  
Lectures)  
E-Commerce and E-Business, Categories of E-commerce, Development and  
growth of  
e-commerce, Business modules, revenue models and business process,  
Economic forces &