

Model Syllabus for 4-Year UG Honours in B.Com.(ComputerApplications) as Major in consonance with Curriculum framework w.e.f. AY **2026-27**

COURSE STRUCTURE

Year	Semester	Course	Title of the Course	No.of Hrs /Week	No. of Credits
II	III	5	Financial Accounting II	5	4
		6	Business Statistics	5	4
		7	Database Management System	3	3
			Database Management System-Practical	2	1

SEMESTER-III
COURSE 6: BUSINESS STATISTICS

Theory 5 hrs/week

Credits: 4

Course Objectives:

This course is designed to enable students to:

- Understand and be able to collect and present data in the most refined and relevant manner pertaining to the research
- Enable students to understand, different measures of central tendency.
- Develop the ability to compute and interpret various measures of dispersion.
- Establish the relationship between two variables by using measures of relations
- Construction of Index numbers

Course Outcomes (COs)

Upon successful completion of this course, students will be able to:

CO1: Understand the basic concepts and significance of statistics, and present data using classification, tabulation, and graphical methods.

CO2: Compute and interpret various measures of central tendency to analyze datasets effectively.

CO3: Apply measures of dispersion to evaluate variability and consistency in data.

CO4: Evaluate relationships between variables using correlation techniques like Pearson's and Spearman's methods.

CO5: Enabling to calculate, interpret and apply price and quantity indices to measure relative changes in economic data over time or space

SYLLABUS

Unit I: Introduction to Statistics

Definition, Importance, Characteristics, and Limitations of Statistics – Classification and Tabulation of Data – Construction of Frequency Distribution Tables – Diagrammatic and Graphical Representation of Data (Bar Diagrams, Pie Charts, Histogram, Frequency Polygon, Ogive curves) – (Including problems)

Unit II: Measures of Central Tendency

Types of Averages – Characteristics of an Ideal Average – Computation and Application of Mean, Median, Mode – Median-based Averages – Geometric Mean – Harmonic Mean – (Including problems)

Unit III: Measures of Dispersion

Concept and Properties of Dispersion – Absolute vs. Relative Measures – Types: Range, Quartile Deviation (Semi-Inter-quartile Range), Mean Deviation, Standard Deviation – Coefficient of Variation(Including problems)

Unit IV: Measures of Relation

Correlation: Concept, Need, and Uses – Types of Correlation – Karl Pearson's Correlation Coefficient – Interpretation using Probable Error – Spearman's Rank Correlation – (Including problems)

Unit V: Index Numbers

Un-weighted Index numbers- Simple aggregative method and simple average of relatives method – weighted index numbers – Laspeyre, Paache, Bowley and Fisher's Ideal index – Time reversal and Factor reversals tests – Cost of Living index (Including problems)

Activities:

- Organize student-led seminars and quizzes on statistical concepts.
- Collect and interpret demographic and economic statistics of local areas (village/town/district).
- Participate in government-led statistical experiments (e.g., crop-cutting surveys).
- Practice statistical functions and data visualization using MS Excel.
- Prepare questionnaires and conduct sample surveys.

References :

1. Reddy, C. R. (1994). *Business statistics*. Deep & Deep Publications.
2. Gupta, S. P. (1992). *Statistical methods*. Sultan Chand & Sons.
3. Kapoor, V. K. (2018.). *Statistics: Problems and solutions*. Sultan Chand & Sons.
4. Elhance, D. N. (2017). *Fundamentals of statistics*. [Sultan Chand & Sons].
5. Vittal, P. R. (2018). *Business statistics*. Margham Publications.

MODEL QUESTION PAPER
SEMESTER-III
COURSE 6: BUSINESS STATISTICS
(w.e.f. 2026-27)

Time :3Hrs

Max Marks 75

SECTION - A

Answer any Five of the following

5 X 3= 15 Marks

1. Short answer question from Unit-1
2. Short answer question from Unit-1
3. Short answer question from Unit-2
4. Short answer question from Unit-2
5. Short answer question from Unit-3
6. Short answer question from Unit-3
7. Short answer question from Unit-4
8. Short answer question from Unit-4
9. Short answer question from Unit-5
10. Short answer question from Unit-5

SECTION - B

Answer Five of the following

5 X 12= 60 Marks

11. Long answer question from Unit-1
- OR**
12. Long answer question from Unit-1
13. Long answer question from Unit-2
- OR**
14. Long answer question from Unit-2
15. Long answer question from Unit-3
- OR**
16. Long answer question from Unit-3
- OR**
17. Long answer question from Unit-4
- OR**
18. Long answer question from Unit-4
19. Long answer question from Unit-5
- OR**
20. Long answer question from Unit-5