Course Outcomes of courses offered by Department of Mathematics and Statistics

2026-27

B.Com. Semester I

Business Mathematics I (SEC) (Course Code: COM-142)

After completion of this course, the learners will be able to:

CO1: Solve problems in the areas of business calculus, simple and compound interest account, loan and consumer credit.

CO2: Undertake necessary computations for problems of interest, annuities, perpetuities, capitalized cost, depletion allowances, stocks and bonds.

CO3: Evaluate and select financial arrangements which are best for a consumer.

CO4: Demonstrate and use calculus in the areas of Commerce, Economics and Finance.

Mathematical Techniques in Competitive Exams (MC) (Course Code: MAT-131)

After completion of this course learners will be able to:

CO1: Apply mathematical techniques in solving problems.

CO2: Identify tricks in solving problems quickly.

CO3: Employ various strategies to solve problems arising in various competitive exams.

CO4: Manage time in answering several questions appearing in the exam.

B.Com. Semester II

Business Mathematics II (SEC) (Course Code: COM-147)

After completion of this course, the learners will be able to:

CO1: Analyze and relate acquired mathematical concepts to problems in Business and Economics.

CO2: Solve problems on general aptitude and logical reasoning in view of various competitive examinations.

CO3: Demonstrate ability to solve system of equations and its applications in Operations Research.

CO4: Apply mathematical logic in reasoning and constructing mathematical arguments to provide proofs.

Descriptive Statistics (MC) (Course Code: MAT-132)

After completion of this course, the learners will be able to:

CO1: Understand concepts of sample v/s. population and Identify different types of scales.

CO2: Distinguish between primary and secondary data and Organize the Statistical data.

CO3: Calculate measures of central tendencies and variations.

CO4: Interpret correlation and regression.

B.Com. Semester III:

Business Statistics I (Minor) (Course Code: COM-213)

After completion of this course, the learners will be able to:

CO1: Carry out a basic data analysis using descriptive statistics and appropriate statistical graphics.

CO2: Understand the concept of sampling distributions and identify appropriate way of collecting samples based on population.

CO3: Construct a reliable questionnaire based on objectives of a research study.

CO4: Measure and establish association between business variables using correlation analysis and regression analysis for business decision making and forecasting.

B.Com. Semester IV:

Business Statistics II (VET) (Minor) (Course Code COM-226)

After completion of this course, the learners will be able to:

CO1: Demonstrate use of probability and its applications in a business context.

CO2: Understand discrete and continuous random variables and be able to use their distributions to compute probabilities.

CO3: Understand the concept of a normal population and test the normality using appropriate statistical tool.

CO4: Estimate population parameters using point and interval estimates.

CO5: Estimate appropriate sample size for a research study based on the population.

CO6: Use hypothesis testing as a tool for statistical decision making in a business context.

CO7: Understand the difference between parametric and non-parametric tests and identify appropriate tool based on a statistical hypothesis.

CO8: Communicate concepts in probability and statistics using both technical and non-technical language.