



St. Clare College

Affiliated to Bangalore University | A Claretian Missionary Institution

NURTURING VALUES AND EXCELLENCE

BACHELOR OF SCIENCES – B. Sc

I SEMESTER

BASIC STATISTICS – I

OUTCOMES: Students will be able to

CO1 Explains Organization and presentation of data

CO2 Computational Univariate data analysis

CO3 Computational Bivariate data analysis

CO4 Describes Multivariate data analysis

CO5 Computational Elements of probability

B.SC. MATHEMATICS – IV

OUTCOMES: Students will be able to

CO1 Explains Groups

CO2 Computational Fourier Series

CO3 Computational Differential Calculus

CO4 Computational Continuity and differentiability

CO5 Explains DIFFERENTIAL EQUATIONS –II



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MATHEMATICS – I

OUTCOMES: Students will be able to

- C01** Explains Matrix and its Application
- C02** Computational Group Theory
- C03** Computational Differential Equation
- C04** Computational Calculus
- C05** Explains Differential Calculus

BUSINESS ECONOMICS

OUTCOMES: Students will be able to

- C01** Describe the concepts of Basic Business and the tools used
- C02** Explain the different demand concepts and its dynamics
- C03** Explain the method of demand forecasting in markets
- C04** Explain the various concepts of costs and supply
- C05** Explain the concepts of Production



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SEMESTER - II

MATHEMATICS – II

OUTCOMES: Students will be able to

C01 Explains Group Theory

C02 Computational Differential Calculus

C03 Computational Integral Calculus

C04 Computational Linear equations, Bernoulli's equation.

C05 Explains Exact equations

BASIC STATISTICS – II

OUTCOMES: Students will be able to

C01 Explains Random variables and expectation (Univariate)

C02 Computational Discrete probability distributions

C03 Computational Continuous probability distributions

C04 Computational Random variables and expectation (Bivariate)

C05 Explains Limit theorems



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MANAGERIAL ECONOMICS

OUTCOMES: Students will be able to

CO1 Describe the concepts of decision making and practice different tools used for managerial decision

CO2 Explain the different methods of price determination in different markets

CO3 Explain the method of pricing

CO4 Explain Dynamics of business cycle

SEMESTER III

MATHEMATICS – III

OUTCOMES: Students will be able to

CO1 Explains Matrix and its Application

CO2 Computational Group Theory

CO3 Computational Differential Equation

CO4 Computational Calculus

CO5 Explains Differential Calculus



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STATISTICAL INFERENCE -I

OUTCOMES: Students will be able to

- CO1** Explains Sampling distributions
- CO2** Describes Point estimation
- CO3** Computational Methods of point estimation
- CO4** Computational Interval estimation
- CO5** Explains Simulation

MONETARY ECONOMICS

OUTCOMES: Students will be able to

- CO1** Describe money its uses functions and role
- CO2** Explain the factors determining supply and demand of money
- CO3** Explain the banking terms technology, and practices
- CO4** Explain about Central bank its policies and its effectiveness



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SEMESTER IV

STATISTICAL INFERENCE – II

OUTCOMES: Students will be able to

CO1 Explains Introduction to tests of hypotheses

CO2 Computational: Tests of significance I

CO3 Computational: Tests of significance II

CO4 Computational: Nonparametric tests

CO5 Explains: Sequential tests

PUBLIC ECONOMICS

OUTCOMES: Students will be able to

CO1 Explain importance of public economics and principles governing maximum social advantage

CO2 Explain the different sources of public revenue, and methods to collect; tax and types

CO3 Explain Public expenditure and principles followed in public expenditure and contain public expenditure

CO4 Explain Public debt and causes of increase in public debt, and methods to repay public debt



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SEMESTER V

STATISTICS FOR ECONOMISTS (Elective Paper) – Economics VI

OUTCOMES: Students will be able to

CO1 Explains Concept of statistics, collection, classification, tabulation and presentation of data

CO2 Computational Measures of central tendency

CO3 Computational Measures of dispersion

CO4 Computational Time Series analysis and Index Numbers

CO5 Computational Statistical Inference

SAMPLING THEORY AND STATISTICAL QUALITY CONTROL

OUTCOMES: Students will be able to

CO1 Explains Introduction to sampling theory

CO2 Computational Simple random sampling (SRS)

CO3 Computational Stratified and systematic sampling

CO4 Describes Process control

CO5 Computational Product control



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DESIGN AND ANALYSIS OF EXPERIMENTS

OUTCOMES: Students will be able to

C01 Explains Analysis of variance

C02 Computational Experimental designs

C03 Computational Efficiency of a design and missing plot technique

C04 Describes Factorial experiment

C05 Computational Confounding

MATHEMATICS – V

OUTCOMES: Students will be able to

C01 Explains Rings, Integral Domains, Fields

C02 Computational Calculus of Variation

C03 Computational Differential Equation

C04 Computational nth differences

C05 Explains Numerical Integration



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CORPORATE ECONOMICS

OUTCOMES: Students will be able to

CO1 Explain corporate economics its need and importance of corporate house

CO2 Explain need and importance of corporate planning

CO3 Explain HRM and its functions in industry

CO4 Explain Globalisation MNC, and WTO. Future of corporate sector

CO5 Explain CSR Ethics, law and regulations

SEMESTER VI

MATHEMATICS – VI

OUTCOMES: Students will be able to

CO1 Explains Differential Calculus of Scalar

CO2 Computational Differential Calculus of Vector Fields

CO3 Computational Line and Multiple Integrals

CO4 Computational Integral Theorems

CO5 Explains Green's theorem



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STATISTICS FOR ECONOMISTS (Elective Paper) – Economics VIII

OUTCOMES: Students will be able to

CO1 Explains Concept of statistics, collection, classification, tabulation and presentation of data

CO2 Computational Measures of central tendency

CO3 Computational Measures of dispersion

CO4 Computational Time Series analysis and Index Numbers

CO5 Computational Statistical Inference

APPLIED STATISTICS

OUTCOMES: Students will be able to

CO1 Explains Analysis of variance

CO2 Computational Experimental designs

CO3 Computational Efficiency of a design and missing plot technique

CO4 Describes Factorial experiment

CO5 Computational Confounding



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OPERATIONS RESEARCH

OUTCOMES: Students will be able to

- CO1** Explains Introduction to OR and LPP
- CO2** Computational Transportation and assignment problems
- CO3** Computational Game Theory
- CO4** Describes Inventory and replacement theory
- CO5** Computational Queuing theory

MATHEMATICS – VII

OUTCOMES: Students will be able to

- CO1** Explains Linear Algebra
- CO2** Computational Orthogonal Curvilinear Coordinates
- CO3** Computational Differential Equation
- CO4** Computational Partial Differential Equations



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MATHEMATICS – VIII

OUTCOMES: Students will be able to

- CO1** Explains Complex Analysis
- CO2** Computational Complex integration
- CO3** Computational Transformations
- CO4** Computational NUMERICAL METHODS
- CO5** Explains Euler's and Euler's methods

ECONOMICS OF HRM

OUTCOMES: Students will be able to

- CO1** Explain Scope and Importance of HRM TQM and Qualities of Good manager corporate house
- CO2** Explain Human resource planning and Job design and evaluation
- CO3** Explain importance of HRM from Recruitment to performance appraisal
- CO4** Explain methods of training and wage determination and grievance redressal
- CO5** Explain Human rights and its importance