



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Social Sciences, Humanities and Arts
Choice Based Credit System (CBCS) in Light of NEP-2020
Humanities (Common Course)
Semester II (Batch 2021-24)

COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
HU201	AECC	Foundation English II	60	20	20	-	50	3	0	2	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs): The students will

- CEO1 Understand the role and types of workplace communication
- CEO2 Read their texts for understanding for pleasure and business purpose.
- CEO3 Understand language, word relationships and nuances in word meanings.
- CEO4 Recall key elements of structure and style in drafting technical reports
- CEO5 Develop competency in professional communication.

Course Outcomes (COs): The students will be able to

- CO1 Discuss the role and types of workplace communication
- CO2 Practice reading based on comprehension of a text.
- CO3 Use resources to increase vocabulary and gain deeper understanding by using context of words and sentences.
- CO4 Write according to standard principles of structure, style, and English-language mechanics.
- CO5 Demonstrate different strategies for using professional communication skills.

Paper I
HU201
Foundation English II

COURSE CONTENTS

UNIT I

Communication: Objectives of Communication, Formal and Informal Channels of Communication, Advantages and Disadvantages, Extra personal communication, Interpersonal communication, Intrapersonal communication, Principles of communication.



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UNIT II

Developing Reading Skills: Reading Comprehension, Process, Active & Passive reading, Reading speed Strategies, Benefits of effective reading, SQ3R Reading technique.

UNIT III

Vocabulary Building: Using Dictionaries and Thesaurus, Synonyms, Antonyms, Homophones, One Word Substitution, Affixation: Prefixes & Suffixes, Derivation from root words, Jargon, Scientific Jargon, Word Formation.

UNIT IV

Developing Writing Skills: Planning, Drafting and Editing, Developing Logical Paragraphs, Report Writing: Importance of Report, Characteristics of Good Report, Types of Report, Various Structures of a Report.

UNIT V

Professional Skills: Negotiation Skills, Telephonic Skills, Interview Skills: Team building Skills and Time management

Practical:

- Listening
- Linguistics and Phonetics
- Telephonic Conversation
- Mock Interviews
- Group discussions
- Extempore
- Debate
- Role Plays



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Suggested Readings

- Allen, R. (2005). *Effective Technical Communication*. New Delhi: McGraw Hill.
- Price, L. M. (2001) *How to Prepare for Group Discussion and Interview*. New Delhi: Thomson McGraw-Hill.
- Penne, A. (1978). *Body Language*. Delhi: Sadha Publications.
- Morgan, Dana (1998) *10 Minute Guide to Job Interviews*. New York: Macmillan.

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Choice Based Credit System (CBCS) in Light of NEP-2020
B.A. Honors Economics
Semester II (2021-2024)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BAHNECO201	CC	Micro Economics II	60	20	20	0	0	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives:

CEO1: To develop in- depth understanding of firms, market, pricing strategies, factor pricing and market failures.

CEO2: To develop understanding of firms with respect to revenue.

CEO3: To make the students understand the concept of market failure.

CEO4: To demonstrate the sources of revenue for the govt.

CEO5: To make the students understand how government policy may improve outcomes for society.

Course Outcomes:

Students shall be able to:

CO1: Predict the major characteristics of different market structures

CO2: Illustrate the implications for behavior of the firm with respect to revenue.

CO3: Explain various causes and factors related to Market Failure.

CO4: Summarize the nature of income earned by various factors of production.

CO5: Critically examine the welfare motive of the government towards the society.

Contents

UNIT I: Market Structures

Price Determination and Equilibrium of Firm under Perfect Competition, Monopoly, Monopolistic Competition and Oligopoly; Price Discrimination: Degrees of Price Discrimination; Kinked Demand Curve Theory of Oligopoly.

UNIT II: Concepts of Revenue

Concept of Revenue: Total Revenue, Average Revenue, Marginal Revenue, Relationship between AR and MR Curves, Structure of AR and MR in Different Markets.


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Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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UNIT III:Market Failure

Sources of Market Failure: Imperfect Competition, Monopoly and Market Failure; Externalities and Market Failure, Public Goods and Market Failure, Imperfect Information, Distribution of Goods, Economic Efficiency.

UNIT IV:Income Distribution

Wages: Meaning and Types of Wages. Real and Nominal Wage; Concept of Rent. Ricardian Theory of Rent; Loan Able Fund Theory and Keynes Liquidity Preference.

UNIT V:General Equilibrium and Welfare Theory

Introduction to General Equilibrium Analysis; Walras' Solution, Welfare Economics; Pareto Criterion of Social Welfare, Kaldor-Hicks Welfare Criterion.

Suggested Readings:

1. Ahuja, H.L. (2016). *Principles of Microeconomics*. New Delhi: S.Chand & Company Limited
2. Case, Karl, E.; Ray, C. (2007). *Principles of Economics*, 8th edition. New Delhi: Pearson Education Inc
3. Dominick Salvatore (2012). *Microeconomic Theory Schaum's Outline series*. New Delhi: Tata McGraw Hill
4. Samuelson, Paul & Nordhaus, William (2010). *Economics*. New Delhi: McGraw Hill

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Name of the Program: B. Sc. (Plain)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSMA204	DC	Vector Algebra	60	20	20	-	-	4	0	-	4

Course Objective

To introduce the students with the Fundamentals of the Vector Algebra

Course Outcomes

This course will enable the students to:

- 1. Understand and apply the basics of the various operations in the Vector Algebra.*
- 2. Demonstrate the basic concepts of the Vectors.*
- 3. Apply the techniques of vector and scalar triple product.*
- 4. Justify the concept of Line and Plane.*
- 5. Elaborate the problems of the Volume of tetrahedron, work done, momentum.*

Course Content

UNIT – I

Addition of vector, Multiplication of vectors, Vectors and scalars, Algebra of vectors, Laws of addition, Relation between two compositions, Vector Equation, Linear combinations, Expression of linear combination, Linearly independent and dependent vectors.

UNIT – II

Collinear and coplanar vectors: Origin of reference, position vectors, Section formula, Application to geometry, Condition for co linearity of three points, Parametric equation of plane, Condition for co planarity of four vectors, Proof of some well known Classical theorems.

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSMA204	DC	Vector Algebra	60	20	20	-	-	4	0	-	4

UNIT – III

Scalar and vector product of two or three vectors: Scalar product, Orthogonal bases, Application to Cartesian geometry, Distance between points whose rectangular Cartesian co-ordinates, Direction cosine of a line, Angle between two lines, Normal from of vector equation of a plain, Vector product or Cross product, Some properties of vector product, Interpretation of vector product as vector area, Scalar Triple product, Distribution law, Some properties of Scalar triple product, Vector triple product.

UNIT – IV

Simple Application problem to geometry: Equation of planes parallel to given vectors and passing through given points, Coplanerity of two lines, Shortest distance between two lines, Normal form of lines, Shortest distance, Change of Axes, Scalar Triple products, Two Useful Decompositions, Reciprocal System of Vectors, Solution of vector equations

UNIT – V

Tetrahedron & Application problem to Mechanics: Volume of Tetrahedron, Work done and Momentum.

Texts:

1. Vector Analysis – Louis Brand.
2. Vector Analysis – Barry Spain.
3. Vector & Tensor Analysis – Spiegel (Schaum).
4. Elementary Vector Analysis – C. E. Weatherburn (Vol. I & II).

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSMA205	DC	Differential Calculus	60	20	20	-	-	4	0	-	4

Course Objective

To introduce the students with the Fundamentals of the Differential Calculus.

Course Outcomes

This course will enable the students to:

1. Understand and apply the basics of the Rational Numbers & Sequences.
2. Classify the infinite series.
3. Adopt knowledge about the basic concepts of partial differentiations.
4. Decide the maxima and minima of a function.
5. Solve the problems on the functions of the several variables.

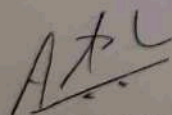
Course Content

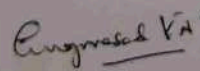
UNIT – I

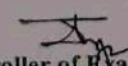
Rational Numbers & Sequence: Geometrical representation. Irrational number, Real number represented as point on a line Linear Continuum. Acquaintance with Basic properties of real number (No deduction or proof is included), Definition of bounds of a sequence and monotone sequence, Limit of a sequence. Statements of limit theorems, Concept of convergence and divergence of monotone sequences - applications of the theorems, definition of e . Statement of Cauchy's general principle of convergence and its application.

UNIT – II

Infinite series of constant terms & Real-valued functions defined on an interval: Convergence and Divergence (definitions), Cauchy's principle as applied to infinite series (application only). Series of positive terms: Statements of Comparison test, D'Alembert's Ratio test, Cauchy's n th root test and Raabe's test – Applications. Alternating series, Statement of Leibnitz test and its applications, Limit of a function (Cauchy's definition). Algebra of limits. Continuity of a function at a point and in an


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			END SEM	MST	Q/A	END SEM	Q/A				
BSMA205	DC	Differential Calculus	60	20	20	-	-	4	0	-	4

interval, Acquaintance (no proof) with the important properties of continuous functions on closed intervals, Statement of existence of inverse function of a strictly monotone function and its continuity.

UNIT – III

Derivative & Successive derivative: Derivative its geometrical and physical interpretation. Sign of derivative – Monotonic increasing and decreasing functions. Relation between continuity and derivability.

Differential – application in finding approximation, Leibnitz's Theorem and its application, Application of the principle of Maxima and Minima for a function of single variable in geometrical, physical and other problems.

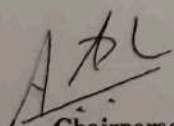
UNIT – IV

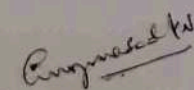
Applications of Differential Calculus: Tangents and Normal's, Pedal equation and Pedal of a curve, Rectilinear Asymptotes (Cartesian only), Definition and examples of singular points (viz. Node, Cusp, Isolated point), Statement of Rolle's Theorem and its geometrical interpretation. Mean Value, Theorems of Lagrange and Cauchy.

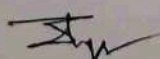
Statements of Taylors and Maclaurin's Theorems with Lagrange's and Cauchy's form of remainders. Taylor's and Maclaurin's Infinite series for functions like e^x , $\sin x$, $\cos x$. $(1+x)^n$, $\log(1+x)$ [with restrictions wherever necessary].

UNIT – V

Indeterminate Forms & Functions of two and three variables: L'Hospital's Rule: Statement and problems only, their geometrical representations, Limit and Continuity (definitions only) for functions of two variables, Partial Derivatives: Knowledge and use of Chain Rule, Exact differentials (emphasis on solving problems only). Functions of two variables, Successive partial derivatives: Statement of Schwarz's theorem on commutative property of mixed derivatives. Euler's theorem on homogeneous function of two and three variables. Maxima and minima of functions of not more than three


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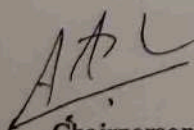
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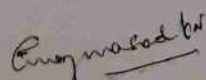
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BSMA205	DC	Differential Calculus	60	20	20	-	-	4	0	-	4

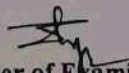
variables –Lagrange's Method of undetermined multiplier – Problems only. Implicit function in case of function of two variables (existence assumed) and derivative.

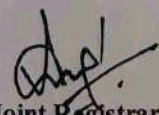
Texts:

1. Basic Real & Abstract Analysis – Randolph J. P. (Academic Press).
2. A First Course in Real Analysis – M. H. Protter & G. B. Morrey (Springer Verlag, NBHM).
3. A Course of Analysis – Phillips.
4. Problems in Mathematical Analysis – B. P. Demidovich (Mir).
5. Problems in Mathematical Analysis – Berman (Mir).
6. Mathematical Analysis – Shantinarayan (S. Chand & Co.).
7. T. M. Apostol: Mathematical Analysis, Addison-Wesley Publishing Co. 1957
8. W. Rudin: Principles of Mathematical Analysis, McGraw-Hill, New York, 1976
9. Differential Calculus – Shantinarayan.
10. An elementary treatise on the Differential Calculus – J. Edwards (Radha Publishing House).
11. Advanced Calculus – David V. Widder (Prentice Hall)


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Name of the Program: B. Sc. (Statistics)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSST203	DC	Probability and Probability Distribution	60	20	20	0	0	3	1	4	6

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit.

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Course Objective

To introduce the Students with the Fundamentals of the Probability and Probability Distribution.

Course Outcomes

- Understand the terminology of probability and the concept of independence.
- Apply the addition and multiplication law, and Baye's theorem for calculating probabilities.
- Define random variables and understand their probability distribution function.
- Understand the concept of mathematical expectation and use of its properties.
- Identify and apply discrete and continuous probability distribution.

Course Content:

UNIT - I

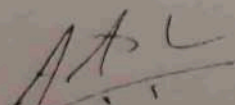
Probability: Introduction, random experiments, sample space, events and algebra of events. Definitions of Probability - classical, statistical, and axiomatic. Conditional Probability, laws of addition and multiplication, independent events, theorem of total probability, Bayes' theorem and its applications.

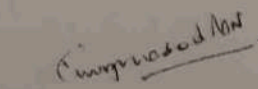
UNIT - II

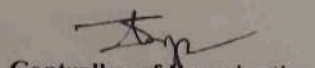
Random variables: discrete and continuous random variables, p.m.f., p.d.f. and c.d.f., illustrations and properties of random variables, univariate transformations with illustrations. Two dimensional random variables: discrete and continuous type, joint, marginal and conditional p.m.f, p.d.f., and c.d.f., independence of variables, bivariate transformations with illustrations.

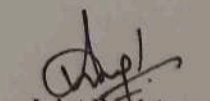
UNIT - III

Mathematical Expectation and Generating Functions: Expectation of single and bivariate random variables and its properties. Moments and Cumulants, moment generating function, cumulant


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			END SEM	MST	Q/A	END SEM	Q/A				
BSST203	DC	Probability and Probability Distribution	60	20	20	0	0	3	1	4	6

generating function and characteristic function. Uniqueness and inversion theorems (without proof) along with applications. Conditional expectations.

UNIT – IV

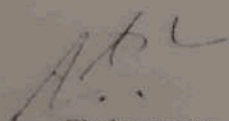
Discrete Probability Distributions: Uniform, Binomial, Poisson, Geometric, Negative Binomial and Hyper-geometric distributions along with their characteristic properties and limiting/approximation cases.

UNIT – V

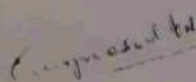
Continuous probability distributions: Normal, Exponential, Uniform, Beta, Gamma, Cauchy, lognormal and Laplace distributions along with their characteristic properties and limiting/approximation cases.

SUGGESTED READING:


1. Hogg, R.V., Tanis, E.A. and Rao J.M. (2009): Probability and Statistical Inference, Seventh Ed, Pearson Education, New Delhi.
2. Miller, Irwin and Miller, Marylees (2006): John E. Freund's Mathematical Statistics with Applications, (7th Edn.), Pearson Education, Asia.
3. Myer, P.L. (1970): Introductory Probability and Statistical Applications, Oxford & IBH Publishing, New Delhi
4. S.C. Gupta and V.K. Kapoor, Fundamentals of Mathematical Statistics, S Chand & Co.
5. E.N. Nadar, Statistics, PHI Learning.
6. P. Mukhopadhyaya, Mathematical Statistics, New Central Book Agency, Calcutta.
7. Jim Frost, Introduction to Statistics: An Intuitive Guide for Analyzing Data and Unlocking Discoveries, Jim Frost MS.



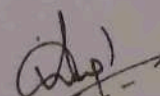
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Name of the Program: B. Sc. (Statistics)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSST203	DC	Probability and Probability Distribution	60	20	20	0	0	3	1	4	6

List of Practical

1. Fitting of binomial distributions for n and $p = q = \frac{1}{2}$.
2. Fitting of binomial distributions for given n and p .
3. Fitting of binomial distributions after computing mean and variance.
4. Fitting of Poisson distributions for given value of λ .
5. Fitting of Poisson distributions after computing mean.
6. Fitting of negative binomial.
7. Fitting of suitable distribution.
8. Application problems based on binomial distribution.
9. Application problems based on Poisson distribution.
10. Application problems based on negative binomial distribution.
11. Problems based on area property of normal distribution.
12. To find the ordinate for a given area for normal distribution.
13. Application based problems using normal distribution.
14. Fitting of normal distribution when parameters are given.
15. Fitting of normal distribution when parameters are not given.

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