



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Name of the Program: Undergraduate Programs

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
GUMA201	Generic Elective	Mathematical Aptitude	60	20	20	-	-	4	0	0	4

Course Objective

This course aims to equip students with a broad-based knowledge of mathematics with an emphasis on business applications.

Course Outcomes

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

- 1. understand and apply the basics of Mathematics.*
- 2. understand the real-life applications of Mathematics.*
- 3. Calculate profit, loss, and percentage.*
- 4. Apply the concepts of matrices.*

Course Content:

UNIT - I

RATIO, PROPORTION AND PERCENTAGE

Ratio- Definition, Continued Ratio, Inverse Ratio, Proportion, Continued Proportion, Direct Proportion, Inverse Proportion, Variation, Inverse Variation, Joint Variation, Percentage - Meaning and Computations of Percentages.

UNIT - II

PROFIT AND LOSS

Terms and Formulae, Trade discount, Cash discount, Problems involving cost price, Selling Price, Trade discount and Cash Discount. Introduction to Commission and brokerage, Problems on Commission and brokerage, concepts and treatment of depreciation.

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UNIT – III INTEREST

Simple Interest, Compound interest (reducing balance & Flat Interest rate of interest), Equated Monthly Instalments (EMI), Principles of Hire-Purchase.

Unit IV: SHARES AND DIVIDENDS

Concept & Examples of Shares, Stock exchange, Face Value, Market Value, Dividend, Equity Shares, Preferential Shares, Bonus Shares, delete examples.

Unit V: MATRICES AND DETERMINANTS

Multivariable data, Definition of a Matrix, Types of Matrices, Algebra of Matrices, Determinants, Adjoint of a Matrix, Inverse of a Matrix via adjoint Matrix.

Reference Books:

- 1) Business Mathematics by Dr. Amarnath Dikshit & Dr. J. K. Jain.
- 2) Business Mathematics by V. K. Kapoor - Sultan Chand & Sons, Delhi
- 3) Business Mathematics by Bari - New Literature Publishing Company, Mumbai

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