



Bachelor of Business Administration (B.B.A.)			Semester - I
Course Title: Business Mathematics	Course Code:		Type of Course: MDC
Credit: 04	Theory: 04 Hours	Practical: Nil	Teaching Hours: 60
Internal Marks: 50	External Marks: 50	Total Marks: 100	External Exam Time: 2½ Hours

COURSE OUTCOMES:

- To sharpen mathematical abilities in making Business Decisions
- Improve logical and reasoning abilities

Pedagogy: Theory, Exercise**COURSE CONTENT**

Unit - 1	Permutation and Combination	Hours: 09
	Meaning and Definition of Permutations Permutations of different things Permutations of Similar things Restricted Permutation Meaning and Definition of Combinations Combinations of things taken some or all at a time Some Restricted Combinations Examples	
Unit – 2	Arithmetic and Geometric Progression	Hours: 09
	Arithmetic Progression (A.P.) Definition of Arithmetic Progression n^{th} term and Sum of n terms of A.P. (With Proof) Geometric Progression (G.P.) Definition of Geometric Progression n^{th} term and Sum of n terms of G.P. (With Proof) Examples	
Unit - 3	Binomial Theorem	Hours: 09
	Introduction of Binomial Theorem (Without Proof) Characteristics of Binomial Theorem Expansion of Binomial Position of Terms and Middle Terms Binomial Coefficient Examples	
Unit – 4	Mathematical Induction	Hours: 09
	Introductions of the Principle of Mathematical Induction Meaning of Sequence and Series Sigma Notation $\sum n$, $\sum n^2$, $\sum n^3$ (with proof) Examples	



Unit – 5	Exponents and Surds	Hours: 09
	Exponents or index notation Exponent or Index Laws Zero and Negative Indices Surds Properties of Surds Multiplication and Division of Surds Examples	
Skill Development Activities: Practical Applications.		

REFERENCES
• Business Mathematics by Sancheti & Kapoor- Sultan & Chand • Fundamental of Mathematics and Statistics by V .K. Kapoor and S. C. Gupta: Sultan & Chand • Numerical Analysis by V. N. Vedmurthi