Name of the Assistant/ Associate Professor: Dr. Meenu Gupta   **Paper code: B23-COM-103**

Class and Section: B.Com.(1ˢᵗ sem)   **Sub: Business Mathematics**

Month	Week	Topics
		Unit-1 Set Theory:
August	1ˢᵗ	Representation of site, equivalent sets, power set, complement of a set.
	2ⁿᵈ	Venn Diagrams: Union and intersection of sets, De-Morgan's laws.
	3ʳᵈ	Logical statements and truth tables.
		Unit -2 Logarithms:
	4ᵗʰ	Laws of operation
September	1ˢᵗ	log tables.
	2ⁿᵈ	Arithmetic progression.
	3ʳᵈ	Geometric progression
		Unit- 3 Matrices and determinants:
	4ᵗʰ	Definition of a matrix, order, equality, types of matrices.
October	1ˢᵗ	Operations on matrices Addition, multiplication
	2ⁿᵈ	multiplication with a scalar and their simple properties.
	3ʳᵈ	Determinant of a square matrix (upto 3x 3 order): Properties of determinants, minors, co-factors and applications of determinants in finding the area of triangle.
	4ᵗʰ	Adjoint and inverse of a square matrix, solutions of a system of linear equations by examples.
		Unit-4 Compound interest and annuities:
November	1ˢᵗ	Different types of interest rates.
	2ⁿᵈ	Types of annuities, present value and amount of an annuity (including the case of continuous compounding).
	3ʳᵈ	Valuation of simple loans and debentures, problems related to sinking funds.