Government College Jatusana (Rewari)

Lesson Plan for Session 2025-26

Subject	Mathematics	Class	B.Com I (Minor)
Paper Title	Business Mathematics-I	Assistant Professor	Mr. Sumit Kumar

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

Sumit Kumar

Assistant Professor of Mathematics