

LESSON PLAN

CLASS: - B COM 1ST (Maths)

SEMESTER:- 1st Sem (2026-27)

Name : - Dr. Narinder Kumar

Designation: Extension lecturer

PAPER: BASIC MATHEMATICS

Time Period	Syllabus to be covered
August 11, 2026- Sept. 12, 2026.	Differentiation: Partial derivatives up to second order: Homogeneity of functions and Euler's theorem; total differentials. Differentiation of implicit function with the help of total differentials. Maxima and Minima; Cases of one variable involving second or higher order derivatives; Cases of two variables involving not more than one constraint.
September 14, 2026- Oct.10, 2026	Integration: Integration as anti-derivative process: Standard forms. Methods of integration by substitution, by parts, and by use of partial fractions; Definite integration; Finding areas in simple cases; Consumer and producers surplus; Nature of Commodities learning Curve; Leontief Input-Output Model.
October 12, 2026- Nov. 18, 2026	Matrices: Definition of matrix; Types of matrices; Algebra of matrices.
November19,2026- December05, 2026	Determinants: Properties of determinants: calculation of values of determinants up to third order; Adjoint of a matrix, through Adjoint and elementary row or column operations; Solution of system of linear equations having unique solution and involving not more than three variables.


Dr. Narinder Kumar

LESSON PLAN

CLASS: - B SC (Maths)

SEMESTER:- 3rd Sem (2026-27)

Name:- Dr. Narinder Kumar

Designation: Extension lecturer

PAPER: BUSINESS MATHEMATICS

Time Period	Syllabus to be covered
August 11, 2026- Sept. 12, 2026.	Linear Programming-Formulation of LPP: Graphical method of solution; Problems relating to two variables; including the case of mixed constraints; Cases having no solution, multiple solutions, unbounded solution and redundant constraints.
September 14, 2026- Oct.10, 2026	Simplex Method---Solution of problems up to three variables, including cases of mixed constraints; Duality; Transportation Problem.
October 12, 2026- Nov. 18, 2026	Compound Interest: Certain different types of interest rates; Concept of present value and amount of a sum.
November 19, 2026- December 05, 2026	Annuities: Types of annuities; Present value and amount of an annuity, including the case of continuous compounding. Valuation of simple loans and debentures; Problems relation to sinking funds.


Dr. Narinder Kumar

LESSON PLAN

CLASS: - B.A (Maths)

SEMESTER:- 1st Sem (2026-27)

Name :- Dr. Narinder Kumar

Designation: Extension lecturer

Paper: Introductory Mathematics

Time Period	Syllabus to be covered
August 11, 2026- Sept. 12, 2026.	Numbers, H.C.F. and L.C.M. of Numbers. Decimal and Fractions. Simplification, Square roots and cube roots, Surds and indices.
September 14, 2026- Oct.10, 2026	Problems on numbers, Average, Percentage. Profit and Loss. Ratio and proportion.
October 12, 2026- Nov. 18, 2026	Problem on ages, Partnership, Time and work, Time and distance.
November 19, 2026- December 05, 2026	Problems on trains, Mixture problem, Problems based on Calendar and clock.


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LESSON PLAN

CLASS: - B.A (Maths)

SEMESTER:- 3rd Sem (2026-27)

Name: - Dr. Narinder Kumar

Designation: Extension lecturer

Paper: Applicable Mathematics

Time Period	Syllabus to be covered
August 11, 2026- Sept. 12, 2026.	Theory of Sets: Meaning, elements, types, presentation and equality of Sets, Union, Intersection, Complement and Difference of Sets, Venn Diagram, Cartesian Product of two Sets, Applications of Set Theory.
September 14, 2026- Oct.10, 2026	Matrices and Determinants: Definition of a Matrix : Types of Matrices, Algebra of Matrices; Properties of determinants; Calculation of values of Determinants upto third order; adjoint of a Matrix, elementary row and column operations; Finding inverse matrix through adjoint; Solution of a system of Linear equations having unique Solution and involving not more than three variables.
October 12, 2026- Nov. 18, 2026	Compound Interest: Certain different types of interest rate; Concept of present value and amount of a sum.
November 19, 2026- December 05, 2026	Annuities: Types of annuities; Present value and amount of an annuity, including the case of continuous compounding.


Dr. Narinder Kumar

LESSON PLAN

CLASS: - B .A/ B.Sc (Maths)

SEMESTER: - ~~1st~~ Sem (2026-2027)

Name : - Dr. Narinder Kumar

Designation: Extension lecturer

Paper: Programming in C and Numerical Methods

Time Period	Syllabus to be covered
August 11, 2026- Sept. 12, 2026.	Programmer's model of a computer, Algorithms, Flow charts, Data types, Operators and expressions, Input /Output functions, Decisions control structure: Decision statements, Logical and conditional statement, Implementation of Loops, Switch Statement & Case control structures, Functions, Preprocessors and Arrays.
September 14, 2026- Oct.10, 2026	Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters, Structures Definition, using Structures, use of Structures in Arrays and Arrays in Structures, Pointers, Pointers Data type, Pointers and Arrays, Pointers and Functions
October 12, 2026- Nov. 18, 2026	Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, Newton-Raphson's method, Newton's iterative method for finding pth root of a number, Order of convergence of above methods.
November 19, 2026- December 05, 2026	Simultaneous linear algebraic equations: Gauss-elimination method, Gauss-Jordan method, Triangularization method (LU decomposition method), Crout's method, Cholesky Decomposition method, Iterative method, Jacobi's method, Gauss-Seidal's method, Relaxation method.


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