Lesson Plan

Name of the Faculty ..... Dr. SAVITA MALIK .....

Class and Section: B.Sc. & B.A. 1st Semester Month/Session - 2025-26

Subject: Calculus

Week/ Month	Topic
July + August 2025	ϵ-δ definition of limit and continuity of a real valued function. Properties of limits. Types of discontinuities. Diff. of functions, Indeterminate forms, Successive Diff, Leibnitz Theorem, Taylor's and Maclaurin's series expansion with different forms of remainder.
September 2025	Asymptotes: Horizontal, Vertical, oblique for algebraic curves; for polar curves, Intersection of curve and its asymptotes, Curvature and radius of curvature of cartesian, parametric, polar, intrinsic curve. Newton's method, Centre of curvature and circle of curvature. Multiple points, Node, Cusp, Conjugate point, Test for Concavity.
October 2025	Points of inflexion, Tracing of curves, Reduction formulae, Rectification, intrinsic equation of a curve, Quadrature. Area bounded by closed curves.
Nov. 2025	Volumes and surfaces of solids of revolution. Revision and Test of different topics.

Signature of the Faculty

Lesson Plan

Name of the Faculty ..... Dr. Sabbo Malik .....

Class and Section: B.A. I & B.A. (G.H.) 3rd Sem. Month / Session: 2025-26

Subject: Elementary Mathematics

Week Month	Topic
July + August	Simple Interest, Compound Interest, Equated monthly installment (EMI), Direct Tax Calculation.
September 2025	Profit and Loss; Work, time and distance; Coding and Decoding; Ratio and Proportion; Trigonometry and its applications; Mensuration for practical purposes.
October 2025	Permutation and Combinations; Mean, Mode, Median, Standard deviation, Variance, Bar graphs, Pie Charts, Frequency polygon, Ogive.
November 2025	Revision and Class Test of different Topics.

Signature of the Faculty

Lesson Plan

Name of the Faculty ..... Dr. SAVITA MALIK .....

Class and Section: B.Sc. 1 B.A. 5th Semester Month / Session: 2025-26

Subject: ..... Group and Rings .....

Week Month	Topic
July + August 2025	Def. of group with example, Properties of groups, Subgroups, Cyclic groups, Cosets - Left and Right, Lagrange's th^m and its consequences, Normal subgroups, Quotient groups, Homomorphisms, isomorphisms, automorphisms and inner automorphisms, Auto. of cyclic Groups.
September 2025	Permutation Groups, Even and odd permutation, Alternating groups, Cayley's theorem, Center of a group. Introduction to rings, subrings, integral domains and fields, Characteristics of a ring, Ring homomorphisms,
October 3 2025	Ideals (Principle, prime and Maximal) and Quotient rings, Field, Euclidean ring, Poly. rings, Poly. over the rational field, The Eisenstein's criterion, Polynomial ring over commutative rings.
November 4th 2025	Unique factorization domain, R unique factorization domain. Revision of syllabus and ~~Test~~ of different topics.

Savita

Signature of the Faculty