

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.
Septem ber 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.

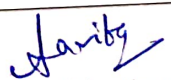
Savita

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Lesson Plan

Name of the Faculty Dr. Sanjo Malik
Class and Section: B.A. F.B.A. (G.H.) 3rd Sem Month / Session: 2025-26
Subject: Elementary Mathematics

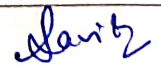
Week Month	Topic
July + August	Simple Interest, Compound Interest, Equated monthly installment (EMI), Direct Tax Calculation.
Septem- ber 2025	Profit and Loss; Work, time and distance; Coding and Decoding; Ratio and Proportion; Trigonometry and its applications; Mensuration for practical purposes.
October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


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Name of the Faculty Dr. SAVITA MALIK
 Class and Section: B.Sc. & 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.
Septem-ber 2025	Permutation groups, Even and odd permutation, Alternating groups, Cayley's theorem, center of a group. Introduction to rings, subrings, integral domains and fields, Characteristic of a ring, Ring homomorphisms.
October 2025	Ideals (Principal, 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.
Novem-ber 2025	Unique factorization domain, R unique factorization domain. Revision of syllabus and Test of different topics.


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