

Govt. College, Safidon (Jind)-126112

Session: 2024-25 (Even- Semester)

Lesson Plan

Class: BSc/B A- II

Name of the Teacher: Sanyogita

Subject: Real and Complex Analysis

Sr. No.	Months	Topic
1	January	Jacobians, Beta and Gamma functions, Double and Triple integrals, Dirichlet's Integrals
2	February	Fourier Series, Properties of Fourier coefficients, Dirichlet's conditions, Assignment-I
3	March	Extended Complex plane, Stereographic Projection of Complex numbers, Continuity
4	April	Analytic functions, CR equation Harmonic functions, Assignment-II
5	May	Translation, rotation, Inversion Conformal mapping. Revision

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Lesson Plan

Class: B.Sc./BA-III

Name of the Teacher: Sanyogita

Subject: Linear Algebra

Sr. No.	Months	Topic
1	January	Vector spaces and Subspaces Basis and Dimension Quotient Space
2	February	Linear Transformations Rank and Nullity Assignment-I
3	March	Algebra of Linear Transformations Matrix of Linear Transformations Dual Space, Assignment-II
4	April	Eigenvalues and Eigen Vectors Inner Product Spaces, Test-I
5	May	Linear operations on Inner Product Spaces, Revision

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Lesson Plan

Class: B. Com. I

Name of the Teacher: Sanyogita

Subject: Business Math

Sr. No.	Months	Topic
1	January	Differentiation Applications of Differentiation maxima and Minima Assignment-I
2.	February	Integration Properties of Integration
3	March	Permutations and Combinations Assignment-II
4.	April	Binomial Theorem Linear Programming Graphical & Simplex Method Test
5.	May	Log. Tables, Revision

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Lesson Plan

Name of the Teacher: Sanyogita

Class: B.Sc/B.A I

Subject: Algebra and number Theory

Sr. No.	Months	Topic
1	January	Symmetric, Skew-Symmetric, Hermitian and Skew-Hermitian matrices, Rank of a matrix, Inverse of matrix, Elementary operations on matrix.
2.	February	Relations between the roots and coefficients of general polynomial equation in one variable, Solutions of polynomial equations having conditions on roots, Assignment-I
3.	March	Solutions of cubic equations, Cardan's method, Biquadratic eqns LCM, HCF, Assignment-II
	April	Linear Congruences, Fermat's Theorem, Euler's Theorem, Wilson's Theorem.
	May	Chinese Remainder Th ^m , Revision

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Lesson Plan

Name of the Teacher: Sanyogita

Class: B-SC / B.A-2nd

Subject: Analytical Geometry & Vector Calculus

Sr. No.	Months	Topic
1	January	General equation of 2nd degree. Classification of conic section; centre, asymptotes, axes, eccentricity, Foci and directrices of conics. Polar equation of a conic, Assignment-I
2.	February	Sphere, Plane section of sphere, Cone, Tangent plane and condition of Tangency.
3.	March	Cylinder, Right circular cylinder and enveloping cylinder, Central Conical Equation of tangent Plane. Assignment-II
4.	April	Scalar and vector Product of Three vectors, Four vectors, reciprocal vectors, vectors differentiation and derivative along a curve, direction derivatives. Gauss, Green, Stoke Th ^m .
5	May	Grav. of vector point function Revision