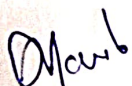


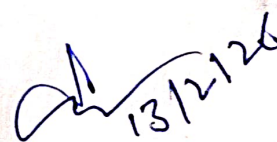
Government College for Women, Hisar

Lesson Plan

Session 2026-26 Even Semester

Subject : Calculus	Class : BA-I/B.Sc-I(PS)
Subject Code : C24MAT201T	Teacher Name : Dr. Harsha
Date	Topics
27/01/2026-28/01/2026	Unit-I ϵ - δ definition of the limit of a function. Basic properties of limits
02/02/2026-04/02/2026	Continuous functions and classification of discontinuities.
9/02/2026-11/02/2026	Differentiability.
16/02/2026-18/02/2026	Successive differentiation
23/02/2026-25/02/2026	Leibnitz theorem. Maclaurin's and Taylor's series expansions
09/03/2026-11/03/2026	Maclaurin's and Taylor's series expansions
16/03/2026-18/03/2026	Unit-II Indeterminate forms. Limit and continuity of real valued functions of two variables
Minor-I/Assignments	Partial differentiation, Total differentials
23/03/2026-25/03/2026	Partial derivatives of Composite functions & Implicit functions using change of variables
30/03/2026-01/04/2026	Unit - III Homogenous functions & Euler's theorem on homogeneous functions.
06/04/2026-08/04/2026	Taylor's theorem for functions of two variables.
13/04/2026-15/04/2026	Differentiability of real valued functions of two variables
20/03/2026-22/04/2026	Sessional Test
Minor-II/ Assignments	Schwarz's and Young's theorem
27/04/2026-29/04/2026	Unit - IV Maxima, minima and saddle points of functions of two variables
04/05/2026-06/05/2026	Lagrange's method of multipliers, Beta and Gamma Functions
11/05/2026-13/05/2026	Double and triple integrals
18/05/2026-20/05/2026	Revision
21/5/26 onwards	Revision


Signature


13/2/26
Principal

Government College for Women, Hisar

Lesson Plan

Session 2026-26 Even Semester

Class : BA-II/B.Sc-II	Teacher Name : Dr Harsha
Subject : Mechanics	Subject Code : C24MA401T
Date	Topics
08/01/2026-10/01/2026	Forces in two dimension (co-planner), triangle law and polygon law of forces
15/01/2026-17/01/2026	Lami's theorem, resultant of concurrent and coplanar forces, conditions of equilibrium of concurrent forces
22/01/2026-24/01/2026	Parallel forces: like parallel and unequal unlike parallel forces, resultant and centre of parallel forces
29/01/2026-31/01/2026	Friction: Definition of friction and basic laws, problems based on equilibrium of rods and ladders;
05/02/2026-07/02/2026	Definitions, centre of gravity of a uniform rod, a thin uniform lamina in the form
12/02/2026-14/02/2026	C.G of a thin uniform triangular lamina, three uniform rods forming a triangle, a uniform quadrilateral lamina, lamina in the form of a trapezium, centre of gravity of a body by integration.
19/02/2026-21/02/2026	Velocity and acceleration along a plane curve.
26/02/2026-28/02/2026	Component of velocity and acceleration in radial, transverse, tangential and normal directions.
12/03/2026-14/03/2026	Session tests, assignment, Simple harmonic motion (SHM)-1
19/03/2026-21/03/2026	S.H.M-2
26/03/2026-28/03/2026	Motion of a particle attached to an elastic string, Hooke's law, motion of horizontal and vertical elastic strings.
24/03/2026-29/03/2026	Newton's laws of motion-1
02/04/2026-04/04/2026	Newton's laws of motion-2
09/04/2026-11/04/2026	Projectile motion of a particle in a plane, velocity at any point of the trajectory, directions of projection for a particle, range and time of flight on an inclined plane
16/04/2026-18/04/2026	Directions of projection for a given velocity and a given range; range and time of flight down an inclined plane.
23/04/2026-25/04/2026	Tests and assignments , doubts classes
30/04/2026 Onwards	Revision

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Government College for Women, Hisar

Lesson Plan

Session 2026-26 Even Semester

Class : BA-III/B.Sc-III	Teacher Name : Dr. Harsha
Subject : Solid Geometry	Subject Code : BAMH 307(i),CML608(i)
Date	Topics
12/01/2026-13/01/2026	UNIT-I Central Conicoids
19/01/2026-20/01/2026	Equation of tangent plane
26/01/2026-27/01/2026	Director sphere
02/02/2026-03/02/2026	Normal to the Conicoids
09/02/2026-10/02/2026	Polar plane of a point
16/02/2026-17/02/2026	Envelopeing cone of a conicoid
23/02/2026-24/02/2026	Envelopeing cylinder of a conicoid
09/03/2026-10/03/2026	UNIT-II Paraboloids
16/02/2026-17/03/2026	Circular section
Minor-I/Assignments	Sessional Test
23/03/2026-24/03/2026	Plane sections of conicoids-1
30/03/2026-31/03/2026	Plane sections of conicoids-2
06/04/2026-07/04/2026	Generating lines
13/04/2026-14/04/2026	confocal conicoids
20/04/2026-21/04/2026	Reduction of second degree equations-1
27/04/2026-28/04/2026	Minor-II/ Assignments, Revision, doubts classes
14/04/2026-19/04/2026	Reduction of second degree equations
21/04/2026-26/04/2026	Revision
28/04/2026-03/05/2026	Revision

Government College for Women, Hisar

Lesson Plan

Session 2026-26 Even Semester


Class : BA-III/B.Sc-III	Teacher Name : Dr. Harsha
Subject : Solid Geometry	Subject Code : BAMH 307(i),CML608(i)
Date	Topics
12/01/2026-13/01/2026	UNIT-I Central Conicoids
19/01/2026-20/01/2026	Equation of tangent plane
26/01/2026-27/01/2026	Director sphere
02/02/2026-03/02/2026	Normal to the Conicoids
09/02/2026-10/02/2026	Polar plane of a point
16/02/2026-17/02/2026	Envelopeing cone of a conicoid
23/02/2026-24/02/2026	Envelopeing cylinder of a conicoid
09/03/2026-10/03/2026	UNIT-II Paraboloids
16/02/2026-17/03/2026	Circular section
Minor-I/Assignments	Sessional Test
23/03/2026-24/03/2026	Plane sections of conicoids-1
30/03/2026-31/03/2026	Plane sections of conicoids-2
06/04/2026-07/04/2026	Generating lines
13/04/2026-14/04/2026	confocal conicoids
20/04/2026-21/04/2026	Reduction of second degree equations-1
27/04/2026-28/04/2026	Minor-II/ Assignments, Revision, doubts classes
14/04/2026-19/04/2026	Reduction of second degree equations
21/04/2026-26/04/2026	Revision
28/04/2026-03/05/2026	Revision

Dr. Harsha
13/12/26
Principal

Dr. Harsha
Signature

Government College for Women, Hisar (Lesson Plan)	
Session 2025-26 (Even Semester)	
Class: BA-III/B.Sc-III	Semester: VI
Subject: Linear Algebra	Paper Code: CML-605(i) and BAMH-304(i)
External Marks: 80	Total Marks: 100
Internal Marks: 20	Teacher Name: Dr. Kuldeep Singh
Month	Topics
(January) 2 nd week	Vector spaces, subspaces, sum and Direct sum of subspaces, Linear span, Linearly Independent and Dependent subsets of a vector space
(January) 3 rd week	Finitely generated vector space, Existence theorem for basis of a finitely generated vector space
(January) last week	Finite Dimensional vector spaces, Dimensions, Quotient space and its dimension
(February) 1st week	Homomorphism and isomorphism of vector spaces, Linear transformations
(February) 2 nd week	Linear forms of a vector space, vector space of all the linear transformations
(February) 3 rd week	Null space, Range space of a linear transformation
(February) last week	Rank and Nullity Theorem and related problems, Algebra of Linear transformations
(March) 1st week	Holi Vacations
(March) 2 nd week	Minimal Polynomial of a linear transformation, Singular and Non -Singular linear transformations
(March) 3 rd week	Matrix of a linear transformation, change of basis
(March) last week	Eigen values and Eigen vectors of a Linear Transformations
(April) 1st week	Inner product spaces, Cauchy-Schwarz inequality
(April) 2 nd week	Orthogonal complements, Orthogonal sets and Basis
(April) 3 rd week	Bessel's inequality for finite Dimensional vector spaces
(April) last week	Gram-Schmidt Orthogonalization process, Adjoint of a Linear transformation and its properties, Unitary linear transformations


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Principal

Government College for Women, Hisar (Lesson Plan)	
Session 2025-26 (Even Semester)	
Class: BA-III/B.Sc-III	Semester: VI
Subject: Real and Complex Analysis	Paper Code: <u>CML-607(i)</u> and <u>BAMH-306(i)</u>
External Marks: 80	Total Marks: 100
Internal Marks: 20	Teacher Name: Dr. Kuldeep Singh
Month	Topics
(January) 2 nd week	Definition and examples of metric spaces, Limit points, interior points,
(January) 3 rd week	open and closed sets, Closure and interior, boundary points, subspaces of a metric space
(January) last week	Equivalent metrics, Cauchy Sequences, Completeness, Cantor's intersection theorem
(February) 1 st week	Baire's category theorem, Contraction principle, Continuous functions
(February) 2 nd week	Uniform Continuity, Compactness of metric spaces, sequential compactness
(February) 3 rd week	Bolzano-Weierstrass property, total boundedness
(February) last week	finite intersection property, continuity in relation with compactness
(March) 1 st week	Holi Vacation
(March) 2 nd week	Improper integral and their convergence, Comparison tests, Abel's test
(March) 3 rd week	Dirichlet's tests, Frullani's integral
(March) last week	Integral as a function of a parameter
(April) 1 st week	Continuity and Differentiability of an integral as a function of parameter
(April) 2 nd week	Integrability of an integral as a function of parameter
(April) 3 rd week	Topology of Complex Numbers
(April) last week	Calculus of complex Functions


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Government College for Women, Hisar

Lesson Plan

Session 2025-26 Even Semester

		Semester : VI
Class : BA-III/B.Sc-III		Subject Code : BAMH 305(i),CML606(i)
Subject : Mechanics-II		Total Marks : 100
External Marks : 80		Teacher Name : Anil Kumar
Internal marks : 20		
Date	Topics	
06/01/2026-11/01/2026	UNIT-I Analytical conditions of equilibrium of coplanar forces:Equilibrium of three forces	
13/01/2026-18/01/2026	Conditions of equilibrium, trigonometric theorem's, conditions of equilibrium of coplanar forces	
20/01/2026-25/01/2026	Friction, definition of friction and basic laws, problems based on equilibrium of rods and ladders	
27/01/2026-01/02/2026	Centre of gravity of uniform rod and thin uniform lamina	
03/02/2026-08/02/2026	UNIT-II Motion of a particle attached to an elastic string, Hooke's law	
10/02/2026-15/02/2026	Motion of horizontal and vertical elastic string, Definition of Work, Power and Energy	
17/02/2026-22/02/2026	Work done by a variable force, work done in stretching an elastic string, principle of work and energy	
24/02/2026-01/03/2026	Conservative system of forces, principle of conservation of energy, impulse of constant forces and variable forces	
03/03/2026-08/03/2026	UNIT-III Motion of a particle on smooth curves	
10/03/2026-15/03/2026	Motion on the outside and inside of a smooth vertical circle	
17/03/2026-22/03/2026	Cycloidal Motion, Motion on a rough curve under gravity	
24/03/2026-29/03/2026	UNIT-IV Projectile motion of a particle in a plane	
31/03/2026-05/04/2026	Velocity at any point of the trajectory, directions of projection for a particle	
07/04/2026-12/04/2026	Range and time of flight on an inclined plane	
14/04/2026-19/04/2026	Direction of projection for a given velocity and a given range	
21/04/2026-26/04/2026	Range and time of flight down an inclined plane	
28/04/2026-03/05/2026	Revision	

Anil
(Anil Kumar)


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Government College for Women, Hisar

Lesson Plan

Session 2025-26 Even Semester

Class : BA-II/B.Sc-II(LS)	Semester : IV
Subject : Application of Mathematical Statistics	Subject Code : C24MICV415T
External Marks : 35	Total Marks : 50
Internal marks : 15	Teacher Name : Anil Kumar
Date	Topics
06/01/2026-11/01/2026	Correlation- Definition and Types (Positive, Negative, No Correlation)
13/01/2026-18/01/2026	Correlation- Definition and Types (Positive, Negative, No Correlation)
20/01/2026-25/01/2026	Correlation- Definition and Types (Positive, Negative, No Correlation)
27/01/2026-01/02/2026	Introduction to Regression-Concept of Line of Best Fit
03/02/2026-08/02/2026	Concept of Line of Best Fit
10/02/2026-15/02/2026	Concept of Line of Best Fit
17/02/2026-22/02/2026	Simple Linear Regression (Basic Idea)
24/02/2026-01/03/2026	Simple Linear Regression (Basic Idea)
01/03/2026-08/03/2026	Holi Vacation
10/03/2026-15/03/2026	Applications of Statistics :-Real-Life Applications of Statistics
17/03/2026-22/03/2026	Real-Life Applications of Statistics
24/03/2026-29/03/2026	Analyzing Survey
31/03/2026-05/04/2026	Analyzing Survey
07/04/2026-12/04/2026	Data, Understanding Trends in Data (e.g., weather, sports performance)
14/04/2026-19/04/2026	Group Activity: Collect and Analyze Data from a Real-World Scenario
21/04/2026-26/04/2026	Group Activity: Collect and Analyze Data from a Real-World Scenario
28/04/2026-03/05/2026	Revision

Anil

(Anil Kumar)

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Government College for Women, Hisar

Lesson Plan

Session 2025-26 Even Semester

Class : B.Sc-I(PS)	Semester : II
Subject : Contributions of Indian Mathematicians	Subject Code : C24VAC114T
External Marks : 35	Total Marks : 50
Internal marks : 15	Teacher Name : Anil Kumar
Date	Topics
22/01/2026-25/01/2026	Unit-I Contribution in Ancient and Medieval Period: Development of Indian mathematics during Vedic and Ancient period.
27/01/2026-01/02/2026	Overview of the Vedic period, Mathematical ideas in the Vedas and manuscripts in Indian mathematics
03/02/2026-08/02/2026	Life, background, notable works, mathematical contribution of Baudhayana, Pingala, Aryabhata
10/02/2026-15/02/2026	Brahmagupta, Bhaskaracharya, Mahaviracharya and Lilavati. Kerala School of Mathematics
17/02/2026-22/02/2026	Madhava of Sangamagrama, Nilakantha Somayaji, Jyesthadeva
24/02/2026-01/03/2026	Overview of historical backgrounds and their contribution.
01/03/2026-08/03/2026	Holi Vacation
10/03/2026-15/03/2026	Contribution in Modern Period: Srinivasa Ramanujan, Satyendra Nath Bose,
17/03/2026-22/03/2026	Radhanath Sikdar, P.C. Mahalanobis, D.R. Kaprekar: Early life, Education, Challenges, Achievements and their contribution
24/03/2026-29/03/2026	Introduction to the prestigious Ramanujan Award, Fields Medal, Abel Prize and their significance
31/03/2026-05/04/2026	Biography and contributions of illustrious mathematicians from India: Subrahmanyam Chandrasekhar
07/04/2026-12/04/2026	C.R. Rao, S.R. Srinivasa Varadhan
14/04/2026-19/04/2026	Akshay Venkatesh.,
21/04/2026-26/04/2026	Harish Chandra
28/04/2026-03/05/2026	Revision

Anil

(Anil Kumar)

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Government College for Women, Hisar

Lesson Plan

Session 2025-26 Even Semester

BA-I/B.Com-I		Semester : II
subject : Financial Mathematics		Subject Code : C24MDC219T
External Marks : 50		Total Marks : 75
Internal marks : 25		Teacher Name : Anil Kumar
Date	Topics	
22/01/2026-25/01/2026	Simple interest,	
27/01/2026-01/02/2026	bank discount, Compound interest,	
03/02/2026-08/02/2026	Growth and depreciation of value and population.	
10/02/2026-15/02/2026	Annuities,	
17/02/2026-22/02/2026	future value and present value of annuity,	
24/02/2026-01/03/2026	total amount of annuity and application of annuity.	
01/03/2026-08/03/2026	Holi vacation	
10/03/2026-15/03/2026	Data: Raw and organised data,.	
17/03/2026-22/03/2026	Frequency, Grouped data. Representation of data:	
24/03/2026-29/03/2026	Pictograph, Bar Graphs, Double Bar Graph, Histogram,	
31/03/2026-05/04/2026	Pie Charts.	
07/04/2026-12/04/2026	Chance and Probability: Chance, Random Experiment,	
14/04/2026-19/04/2026	Equally likely outcomes, Outcomes as Events,	
21/04/2026-26/04/2026	Probability	
28/04/2026-03/05/2026	Revision	

Anil

(Anil Kumar)

Anil
Principal

Government College for Women, Hisar

Lesson Plan

Session 2025-26 Even Semester

Class : B.Sc-I(PS)	Semester : II
Subject : Combinatorics and Geometry	Subject Code : C24MIC215T
External Marks : 35	Total Marks : 50
Internal marks : 15	Teacher Name : Anil Kumar
Date	Topics
22/01/2026-25/01/2026	Permutations and Combinations: Fundamental Principle of Counting,
27/01/2026-01/02/2026	Permutations,
03/02/2026-08/02/2026	Combinations.
10/02/2026-15/02/2026	Binomial Theorem: Introduction, Binomial Theorem for Positive Integral Indices
17/02/2026-22/02/2026	General and Middle Terms
24/02/2026-01/03/2026	General and Middle Terms
01/03/2026-08/03/2026	Holi vacation
10/03/2026-15/03/2026	Cartesian system of rectangular coordinates in a plane,
17/03/2026-22/03/2026	distance formula, condition for co-linearity of three points and section formula.
24/03/2026-29/03/2026	Straight Lines: Introduction, Slope of a Line, Various Forms of the Equation of a Line,
31/03/2026-05/04/2026	General Equation of a Line,
07/04/2026-12/04/2026	General Equation of a Line,
14/04/2026-19/04/2026	Distance of a Point From a Line.
21/04/2026-26/04/2026	Distance of a Point From a Line
28/04/2026-03/05/2026	Revision

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(Anil Kumar)

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