Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2025-26 (22.07.2025 to 24.11.2025)

Name of Teacher : Mrs. Prabhjot Kaur

Subject: Mathematics

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	**Semester: I**	**Semester: I**	**Semester: V**
22.07.2025	Tuesday	Orientation for Ist year students	Orientation for Ist year students	Orientation for Ist year students	
23.07.2025	Wednesday	Orientation for Ist year students	Orientation for Ist year students	Orientation for Ist year students	
24.07.2025	Thursday	Derivative of a function and some standard results of integration		Introduction to basic operations,solution of quadratic equations	
25.07.2025	Friday			Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples	
26.07.2025	Saturday			Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples	
28.07.2025	Monday	Derivative of a function and some standard results of integration	Introduction to basic operations,solution of quadratic equations		
29.07.2025	Tuesday	Limit of a function and left,right hand limits and examples of limits	Set Thoery : Definitions of set, finite set, infinite set, empty set, singleton set, equal sets with examples		
30.07.2025	Wednesday	Continuos and discontinuos functions and examples of continuity	Definitions of cardinal no. of set, equivalent sets, subsets, power set, comparable sets with examples		
31.07.2025	**Thursday**	**Shaheed Udham Singh's Martyrdom Day**			
01.08.2025	Friday			Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples	

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	Semester: I	Semester: I	Semester: V
02.08.2025	Saturday			Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric differnece of sets with examples	
04.08.2025	Monday	Classification of discontinuties	Definitions of universal sets, complement of set, Venn diagrams, union of sets with examples		
05.08.2025	Tuesday	Differentiability of functions	Definitions of intersection of sets, properties of union and intersection, disjoint sets, symmetric differnece of sets with examples		
06.08.2025	Wednesday	Application of L'Hospital rule to indeterminate forms	De Morgan's laws with examples, Practical operations of set operations with examples		
07.08.2025	Thursday	Application of L'Hospital rule to indeterminate forms		De Morgan's laws with examples, Practical operations of set operations with examples	
08.08.2025	Friday			Practical operations of set operations with examples	
09.08.2025	**Saturday**	**Raksha Bandhan**			
11.08.2025	Monday	Application of L'Hospital rule to indeterminate forms	Practical operations of set operations with examples		
12.08.2025	Tuesday	Introduction of successive differentiation and examples of nth derivatives	Definition of Matrix, order, its types and examples		
13.08.2025	Wednesday	Leibnitz's theorem and based examples	Determinant of matrices of order 2 and 3 and properties of determinants and based examples		
14.08.2025	Thursday	Leibnitz's theorem and based examples		Logical statemtents, truth table, conjunction, disjunction and based examples	Introduction to content of syllabus and basic rules
15.08.2025	**Friday**	**Independence Day**			
16.08.2025	**Saturday**	**Janamashtami**			

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	Semester: I	Semester: I	Semester: V
18.08.2025	Monday	Introduction of differentiable functions and Taylor's theorem with Lagrange's form of remainder after 'n' terms	Properties of matrix(addition, negative, scalar multilplication) and examples		
19.08.2025	Tuesday	Examples based on taylor's theorems and Test & Assignment	Matrix multiplication and based examples		
20.08.2025	Wednesday	Application of taylor's theorem and Exapnsion by differential equations	Matrix multiplication and based examples + Test and Assignment		
21.08.2025	Thursday	Application of taylor's theorem and Exapnsion by differential equations		Conditional statement, biconditional statement, Tautologies and based examples	Boundedness of the set of real numbers,Least upper bound and greatest lower bound of a set
22.08.2025	Friday			Logarithms, product formula, quotient formula and based examples	Archimedean, algebraic and ordered properties in R, Real number system as complete ordered field
23.08.2025	Saturday			Power formula, base changing formula, types of logarithms and based examples	Neighbouhoods, interior points,isolated points,limit points and based examples
25.08.2025	Monday	Introduction to Asymptotes, Vertical, Horizonal, Oblique Asymptotes with examples	Integral power of matrix, symmetric and skew-symmetric matrix and based examples		
26.08.2025	Tuesday	Asymptotes of Polar curves and based examples	Adjoint and inverse of matrix and based examples		
27.08.2025	Wednesday	Position of the curve with respect to the asymptotes	Adjoint and inverse of matrix and based examples		
28.08.2025	Thursday	Position of the curve with respect to the asymptotes		Characterstic, Mantissa, table of logarithms, anti-logarithms and based examples	Open sets, closed sets, interior of set, closure of set in real numbers and their properties, examples
29.08.2025	Friday			Sequence, its types, Arithmetic Progression and based examples	Bolzano-Weierstrass theorem, open covers, compact sets and Heine-Borel theorem and based theorems and examples

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	Semester: I	Semester: I	Semester: V
30.08.2025	Saturday			Sum of n terms of A.P, examples	Denumerable and non-numerable sets and examples
01.09.2025	Monday	Introduction to curvature, Centre of curvature and curvature of circle based examples	Solution of system of linear equations and based examples		
02.09.2025	Tuesday	Radius of curvature for polar equations based examples, Examples of Radius of curvature at origin	Solution of system of linear equations using matrices and based examples		
03.09.2025	Wednesday	Transformation of polar to pedal form and radius of curvature based examples, Centre, Circle and evolute of curvature and its examples	Introduction to Quadratic equations and their solution		
04.09.2025	Thursday	Transformation of polar to pedal form and radius of curvature based examples, Centre, Circle and evolute of curvature and its examples		Geometric Progression,sum of n terms of G.P and based examples	Denumerability of integers, rationals and non-denumerability of real numbers
05.09.2025	Friday			Sum of G.P upto infinity and based examples	Real sequences and their convergence, theorems on limit of sequence and examples
06.09.2025	Saturday			Application of A,P and G.P to Business problems	Bounded and monotonic sequence, Cauchy's sequence, Cauchy's general principle of convergence and examples
08.09.2025	Monday	Introducation to singular points, Types of Singular points - node, cusp, conjugate point	Examples of Quadratic equations and their solutions		
09.09.2025	Tuesday	Examples of nature of double point at origina and other than origin	Arithmetic Progression and based examples		

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	Semester: I	Semester: I	Semester: V
10.09.2025	Wednesday	Examples of nature of cusp of first or second species,single or double cusp, Concavity, convexity and point of inflexion of curve	Arithmetic Progression and based examples		
11.09.2025	Thursday	Examples of nature of cusp of first or second species,single or double cusp, Concavity, convexity and point of inflexion of curve		Definition of Matrix, order, its types and examples	Subsequences and subsequential limits, limits superior and limit inferior and based examples +Test
12.09.2025	Friday			Determinant of matrices of order 2 and 3 and properties of determinants and based examples	Convergence and divergence of infinite series, comparison tests of positive infinte series and examples
13.09.2025	Saturday			Properties of matrix(addition, negative, scalar multilplication) and examples	Cauchy's general principle pf convergence of series, convergence and divergence of geometric series and examples
15.09.2025	Monday	Introduction to curve tracing, Examples of tracing of curves in case of cartesian coordinates	Geometric Progression and based examples		
16.09.2025	Tuesday	Tracing of curves in paramteric equations and its examples, Tracing of polar curves and examples	Geometric Progression and based examples		
17.09.2025	Wednesday	Test and Assignment and Tracing of polar curves and examples	Harmonic Progression and based examples		
18.09.2025	Thursday	Tracing of polar curves and examples		Matrix multiplication and based examples	Hyper Harmonic series of p-series, D-Alembert's ratio test, Rabbe's tets, Logarithmic test and examples
19.09.2025	Friday			Matrix multiplication and based examples + Test and Assignment	Cauchy's nth root test, De-Morgan and Bertrand's test, Gauss test, Cauchy's integral test and example

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		Semester: I	Semester: I	Semester: I	Semester: V
20.09.2025	Saturday			Integral power of matrix, symmetric and skew-symmetric matrix and based examples	Cauchy's condensation test, Alternate series, Absolute and conditional convergence and examples +Test
22.09.2025	**Monday**	**Maharaja Aggarsen Jayanti**			
23.09.2025	**Tuesday**	**Shaheedi Diwas/Haryana War Heroes' Martyrdom Day**			
24.09.2025	Wednesday	Introduction to reduction formulae, Examples using different reduction formulae	Harmonic Progression and based examples		
25.09.2025	Thursday	Introduction to reduction formulae, Examples using different reduction formulae		Adjoint and inverse of matrix and based examples	Cauchy's condensation test, Alternate series, Absolute and conditional convergence and examples
26.09.2025	Friday			Adjoint and inverse of matrix and based examples	Cauchy's condensation test, Alternate series, Absolute and conditional convergence and examples
27.09.2025	Saturday			Solution of system of linear equations and based examples	Leibnitz test and arbitrary series and examples + Assignment
29.09.2025	Monday	Introduction to rectification, Examples of lenght of arc in cartesian form	Arithemtic mean, Geometic mean and Harmonic Mean and based examples		
30.09.2025	Tuesday	Examples of lenght of arc in cartesian form	Arithemtic mean, Geometic mean and Harmonic Mean and based examples		
01.10.2025	Wednesday	Examples of lengh of parametric forms, Examples of lengh of polar forms	Relation between Arithmetic mean, Geometric Mean and Harmonic Mean and based examples		
02.10.2025	**Thursday**	**Mahatma Gandhi Jayanti/Dusshera**			
03.10.2025	Friday			Solution of system of linear equations using matrices and based examples	Leibnitz test and arbitrary series and examples
04.10.2025	Saturday			Simple interest, compound interest and based examples	Abel's and Dirichlet's test, insertion and removal of parentheis and examples

Date	Day	Class: B.A/B.Sc I	Class: B.C.A I	Class: B.Com(Gen.) I	Class: B.A/B.Sc III
		Semester: I	Semester: I	Semester: I	Semester: V
06.10.2025	Monday	Examples of lengh of parametric forms, Examples of lengh of polar forms	Relation between Arithmetic mean, Geometric Mean and Harmonic Mean and based examples		
07.10.2025	**Tuesday**	**Maharishi Valmiki Jayanti/Maharaja Ajamidh Jayanti**			
08.10.2025	Wednesday	Examples of lengh of parametric forms, Examples of lengh of polar forms	Introduction to differentiation and differentiation of simple functions		
09.10.2025	Thursday	Examples of lengh of parametric forms, Examples of lengh of polar forms		Compound interest and based examples +test and assignment	Abel's and Dirichlet's test, insertion and removal of parentheis and examples
10.10.2025	Friday			Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	Abel's and Dirichlet's test, insertion and removal of parentheis and examples
11.10.2025	Saturday			Continuos compounding of interest, Problems on effective rate of interest, depriciation and population with examples	Re-arranegment of terms in a series and examples
13.10.2025	Monday	Examples of intrinsic equation of curve, Introduction to Quadrature	Examples of Differentiation		
14.10.2025	Tuesday	Examples of intrinsic equation of curve, Introduction to Quadrature	Examples of Differentiation		
15.10.2025	Wednesday	Examples of intrinsic equation of curve, Introduction to Quadrature	Examples of Differentiation		
16.10.2025	Thursday	Examples of intrinsic equation of curve, Introduction to Quadrature		Annuties, its types and examples based on different types	Re-arranegment of terms in a series and examples
17.10.2025	Friday			Annuties, its types and examples based on different types	Re-arranegment of terms in a series and examples
18.10.2025	Saturday			Solutions of practical problems to annutiess	Riemann's re-arrangement theorem and Pringsheim's theorem and examples

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		Semester: I	Semester: I	Semester: I	Semester: V
19.10.2025 to 26.10.2025			**Diwali Vacations**		
27.10.2025	Monday	Examples of area of curve and line, Examples of area between two polar curves	Examples of Differentiation +Test and Assignment		
28.10.2025	Tuesday	Examples of area of curve and line, Examples of area between two polar curves	Examples of Differentiation		
29.10.2025	Wednesday	Introduction to volumes and surfaces of solids of revolution, Examples of volume of a solid of revolution	Use of differentiation for solving simple problems related to real life situations		
30.10.2025	Thursday	Introduction to volumes and surfaces of solids of revolution, Examples of volume of a solid of revolution		Solutions of practical problems to annutiess	Riemann's re-arrangement theorem and Pringsheim's theorem and examples
31.10.2025	Friday			Solutions of practical problems to annutiess	Riemann's re-arrangement theorem and Pringsheim's theorem and examples
01.11.2025	**Saturday**	**Haryana Day**			
03.11.2025	Monday	Examples of volume of a solid of revolution	Use of differentiation for solving simple problems related to real life situations		
04.11.2025	Tuesday	Examples of volume of parametric curves and polar curves, Examples of area of surface of resolution	Use of differentiation for solving simple problems related to real life situations		
05.11.2025	**Wednesday**	**Guru Nanak Jayanti**			
06.11.2025	Thursday	Examples of volume of parametric curves and polar curves, Examples of area of surface of resolution		Present value and amount of annuity when interest is compounded continuously and based examples	Riemann's re-arrangement theorem and Pringsheim's theorem and examples
07.11.2025	Friday			Present value and amount of annuity when interest is compounded continuously and based examples	Cauchy Product of series and examples

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		Semester: I	Semester: I	Semester: I	Semester: V
08.11.2025	Saturday			Present value and amount of annuity when interest is compounded continuously and based examples	Cauchy Product of series and examples
10.11.2025	Monday	Examples of volume of parametric curves and polar curves, Examples of area of surface of resolution	Differentiation of simple algebraic, trignometric and exponential functions and based examples		
11.11.2025	Tuesday	Centroid and Pappus and Guldin's Theorem, its examples	Differentiation of simple algebraic, trignometric and exponential functions and based examples		
12.11.2025	Wednesday	Centroid and Pappus and Guldin's Theorem, its examples	Differentiation of simple algebraic, trignometric and exponential functions and based examples		
13.11.2025	Thursday	Centroid and Pappus and Guldin's Theorem, its examples		Present value and amount of annuity when interest is compounded continuously and based examples	Cauchy Product of series and examples
14.11.2025	Friday			Present value and amount of annuity when interest is compounded continuously and based examples	Cauchy Product of series and examples
15.11.2025	Saturday			Revision of Complete syllabus	Revision of Complete syllabus
17.11.2025	Monday	Revision of Complete syllabus	Revision of Complete syllabus		
18.11.2025	Tuesday	Test and Revision	Test and Revision		
19.11.2025	Wednesday	Revision of Complete syllabus	Revision of Complete syllabus		
20.11.2025	Thursday	Revision of Complete syllabus		Revision of Complete syllabus	Revision of Complete syllabus
21.11.2025	Friday			Test and Revision	Test and Revision
22.11.2025	Saturday			Revision of Complete syllabus	Revision of Complete syllabus
24.11.2025	Monday	Revision of Complete syllabus			
25.11.2025	**Tuesday**	**Examination Onwards**			

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2025-26 (22.07.2025 to 24.11.2025)

Name of teacher: Ms.Priyanka

Subject: Mathematics

Date	Day	Class: BBA	Class: B.COM	Class: B.A/B.Sc
		Semester: 1st	Semester: 1st	Semester: 1st
22.07.2025	Tuesday	Orientations	Orientations	Orientations
23.07.2025	Wednesday	Orientations	Orientations	Orientations
24.07.2025	Thursday	Representation of sets		Basic concepts and genesis of ordinary differential equations
25.07.2025	Friday	Equivalent sets		Order and Degree of a differential equation
26.07.2025	Saturday	Equivalent sets and their examples		Order and Degree of a differential equation
28.07.2025	Monday		Representation of sets	
29.07.2025	Tuesday		Equivalent sets and their examples	
30.07.2025	Wednesday		Power set and Complement of set	
31.07.2025	**Thursday**	**Shaheed Udham Singh's Martyrdom Day**		
01.08.2025	Friday	Power set and complement of set		Solutions of a differential equations of first order and first degree
02.08.2025	Saturday	Power set and complement of set		Solutions of a differential equations of first order and first degree
04.08.2025	Monday		Venn Diagrams	
05.08.2025	Tuesday		Praticed based quaestions	
06.08.2025	Wednesday		Union and Intersection of set	
07.08.2025	Thursday	Venn Diagrams		Exact differential equations
08.08.2025	Friday	Praticed based quaestions		Exact differential equations
09.08.2025	**Saturday**	**Raksha Bandhan**		
11.08.2025	Monday		Praticed based quaestions	
12.08.2025	Tuesday		De-Morgan's laws	
13.08.2025	Wednesday		Logical Statements and Truth tables.	
14.08.2025	Thursday	Union and Intersection of set		Integrating factor
15.08.2025	**Friday**	**Independence Day**		
16.08.2025	**Saturday**	**Janamashtami**		
18.08.2025	Monday		Logical Statements and Truth tables.	
19.08.2025	Tuesday		**Praticed based questions**	
20.08.2025	Wednesday		Laws of operation	
21.08.2025	Thursday	Praticed based quaestions		First order higher degree equations solvable for x,y, p
22.08.2025	Friday	De-Morgan's laws		First order higher degree equations solvable for x,y, p
23.08.2025	Saturday	De-Morgan's laws and their examples.		Lagrange's equations,Clairaut's form and singular solutions
25.08.2025	Monday		Log tables	

Date	Day	Class: BBA	Class: B.COM	Class: B.A/B.Sc
		Semester: 1st	Semester: 1st	Semester: 1st
26.08.2025	Tuesday		**Log tables, Arithmetic progression**	
27.08.2025	Wednesday		Log tables, Arithmetic progression	
28.08.2025	Thursday	Quadratic equations with real roots		Praticed based quaestions
29.08.2025	Friday	Praticed based quaestions		Lagrange's equations,Clairaut's form and singular solutions
30.08.2025	Saturday	Relations between roots and coefficents		Orthogonal trajectories of one-parameter
01.09.2025	Monday		Geometric progression	
02.09.2025	Tuesday		Geometric progression	
03.09.2025	Wednesday		Definition of Matrix , order, equality, types of matrix	
04.09.2025	Thursday	Praticed based quaestions		Orthogonal trajectories of one-parameter
05.09.2025	Friday	Methods of solving a quadratic equation		Solutions of linear ordinary differential equations
06.09.2025	Saturday	Methods of solving a quadratic equation		Practiced based questions
08.09.2025	Monday		Operations of matrices	
09.09.2025	Tuesday		Multiplication with a scalar and their simple properties	
10.09.2025	Wednesday		Multiplication with a scalar and their simple properties	
11.09.2025	Thursday	Practiced based question		Solutions of linear ordinary differential equations
12.09.2025	Friday	Binomial theorem		Linear non-homogenous differential equations.
13.09.2025	Saturday	Binomial theorem and their examples.		Linear non-homogenous differential equations.
15.09.2025	Monday		Determinant of a square matrix and their properties	
16.09.2025	Tuesday		Determinant of a square matrix and their properties	
17.09.2025	Wednesday		Properties of Determinants	
18.09.2025	Thursday	Functions		Linear differential equation of second order
19.09.2025	Friday	Functions and their examples.		Methods of reduction of order
20.09.2025	Saturday	Practiced based question		Methods of reduction of order
22.09.2025	**Monday**	**Maharaja Aggarsen Jayanti**		
23.09.2025	**Tuesday**	**Shaheedi Diwas/Haryana War Heroes' Martyrdom Day**		
24.09.2025	Wednesday		Minors and Co-factors	
25.09.2025	Thursday	Limits and Continuity		Methods of undetermined coefficients
26.09.2025	Friday	Limits and Continuity		Methods of variation of parameters
27.09.2025	Saturday	Practiced based question		Methods of variation of parameters
29.09.2025	Monday		Applications of determinants	

Date	Day	Class: BBA	Class: B.COM	Class: B.A/B.Sc
		Semester: 1st	Semester: 1st	Semester: 1st
30.09.2025	Tuesday		Applications of determinants	
01.10.2025	Wednesday		Adjoint and inverse of a square matrix	
02.10.2025	**Thursday**	**Mahatma Gandhi Jayanti/Dusshera**		
03.10.2025	Friday	Problem solving questions		Cauchy -Euler equation
04.10.2025	Saturday	Problem solving questions		Solution of simultaneous differential equations
06.10.2025	Monday		Adjoint and inverse of a square matrix	
07.10.2025	**Tuesday**	**Maharishi Valmiki Jayanti/Maharaja Ajamidh Jayanti**		
08.10.2025	Wednesday		Solutions of a system of linear equations by examples	
09.10.2025	Thursday	Introduction of Matrices		Solution of simultaneous differential equations
10.10.2025	Friday	Basic Operations on matrices		Total differential equations
11.10.2025	Saturday	Basic Operations on matrices		Total differential equations
13.10.2025	Monday		Solutions of a system of linear equations by examples	
14.10.2025	Tuesday		Different types of interest rates	
15.10.2025	Wednesday		Different types of interest rates	
16.10.2025	Thursday	Problem solving questions		Genesis PDE, Concept of linear and non linearPDE
17.10.2025	Friday	Determinant of a square matrix		Complete solution, general and singular solution
18.10.2025	Saturday	Problem solving questions		Complete solution, general and singular solution
19.10.2025 to 26.10.2025			**Diwali Vacations**	
27.10.2025	Monday		**Types of annuities**	
28.10.2025	Tuesday		**Types of annuities**	
28.10.2026	Wednesday		**Types of annuities**	
30.10.2025	Thursday	**Adjoint and inverse of a square matrix**		**Linear PDE of first order, lagrange's method**
31.10.2025	Friday	**Practiced based questions**		**Linear PDE of first order, lagrange's method**
01.11.2025	**Saturday**	**Haryana Day**		
03.11.2025	Monday		**Present value and amount of an annuity**	
04.11.2025	Tuesday		Valuation of simple loans	
05.11.2025	**Wednesday**	**Guru Nanak Jayanti**		
06.11.2025	Thursday	Cramer's rule		Integral surfaces passing through a given curve.
07.11.2025	Friday	Cramer's rule		Surfaces orthogonal to a given system of surfaces.

Date	Day	Class: BBA	Class: B.COM	Class: B.A/B.Sc
		Semester: 1st	**Semester: 1st**	**Semester: 1st**
08.11.2025	Saturday	Practiced based question		Compatible systems of first order and their special types
10.11.2025	Monday		Valuation of simple loans	
11.11.2025	Tuesday		Debentures	
12.11.2025	Wednesday		Problems related to sinking funds	
13.11.2025	Thursday	Revision and Class test		Charpit's method, Jacobi's method
14.11.2025	Friday	Revision and Class test		Second order PDE with constant coefficients.
15.11.2025	Saturday	Revision and Class test		Second order PDE with constant coefficients.
17.11.2025	Monday		Revision and Class test	
18.11.2025	Tuesday		Revision and Class test	
19.11.2025	Wednesday		Revision and Class test	
20.11.2025	Thursday	Revision and Class test		Revision and Class test
21.11.2025	Friday	Revision and Class test		Revision and Class test
22.11.2025	Saturday	Revision and Class test		Revision and Class test
24.11.2025	Monday		Revision and Class test	
25.11.2025	**Tuesday**	**Examination Onwards**		