

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG -NEP Second & Fourth Semester - Even Semester)
Session 2024-25 (08.02.2025 to 31.05.2025)

Name of teacher: Mrs. Prabhjot Kaur

Subject: Mathematics

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
08.02.2025		Introduction to differentiation	
10.02.2025	Introduction to Matrices, types and its properties		Introduction to Average, Ratio and Proportion
11.02.2025	Symmetirc, Skew-Symmetric Matrices, Properties and examples		Examples of Average
12.02.2025	Guru Ravidass Jayanti		
13.02.2025	Symmetirc, Skew-Symmetric Matrices, Properties and examples	Derivative of Simple functions and other trognometric functions	Examples of Average
14.02.2025		Derivative of Simple functions and other trognometric functions	Examples of Ratio
15.02.2025		Various rules of differentiation with examples	
17.02.2025	Hermitian, Skew-Hermitian Matrices, Properties and examples		Examples of Ratio
18.02.2025	Orthogonal, Unitary Matrices, Properties and examples		Examples of Proportion
19.02.2025	Orthogonal, Unitary Matrices, Properties and examples	Various rules of differentiation with examples	
20.02.2025	Rank of Matrix using determinats, examples	Applications of differentiation in Business Studies	Examples of Proportion
21.02.2025		Applications of differentiation in Business Studies	Introduction to Percentage and based examples
22.02.2025		Maxima and minima of revenues, cost ,demand, production	
24.02.2025	Elemantry row and column opertion of matrices		Examples of Percentage and Profit-Loss
25.02.2025	Row echelon form, row rank and column echelon form, column rank		Examples of Percentage and Profit-Loss

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
26.02.2025	Maha Shivratri		
27.02.2025	Examples of Row echelon form and column echelon form	Maxima and minima of revenues, cost ,demand, production	Examples of Profit-Loss
28.02.2025		Profit functions and other functions related to business and commerce	Examples of Discount, Commission and Brokerage
01.03.2025		Profit functions and other functions related to business and commerce	
03.03.2025	Rank of matrix by reducing it to normal form		Examples of Discount, Commission and Brokerage
04.03.2025	Rank of matrix by reducing it to normal form		Examples of Discount, Commission and Brokerage
05.03.2025	Inverse of matrix using elementary operations	Introduction to integration	
06.03.2025	Test and Assignment	Integration of Definite and Indefinite functions excluding trigonometric function using various rules	Introduction to Simple Interest and based examples
07.03.2025		Integration of Definite and Indefinite functions excluding trigonometric function using various rules	Examples of Simple Interest
08.03.2025		Integration of Definite and Indefinite functions excluding trigonometric function using various rules	
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025	Linear dependence and independence of rows and columns of matrices with examples		Introduction to Compound Interest and based examples
18.03.2025	Linear dependence and independence of rows and columns of matrices with examples		Examples of Compound Interest
19.03.2025	Introduction to Eigen Values, Eigen Vectors and Characteristic equation of matrix	Different rules of Integration	
20.03.2025	Examples of Characteristics roots, equation and vectors of matrix	Different rules of Integration	Examples of Compound Interest

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
21.03.2025		Applications of integration in commercial and business problems	Introduction to Annuities and its types
22.03.2025		Applications of integration in commercial and business problems	
24.03.2025	Minimal Polynomial of Matric and Cayley-Hamilton Theorem with examples		Examples of Annuities
25.03.2025	Minimal Polynomial of Matric and Cayley-Hamilton Theorem with examples		Examples of Annuities
26.03.2025	Inverse of matrix using Cayley-Hamilton Theorem with examples	Applications of integration in commercial and business problems	
27.03.2025	Inverse of matrix using Cayley-Hamilton Theorem with examples	Introduction to Binomial Theorem	Examples of Present Value and amoount of an annuity (including the case of continous compounding)
28.03.2025		Examples of Binomial Theorem	Examples of Present Value and amoount of an annuity (including the case of continous compounding)
29.03.2025		Examples of Binomial Theorem	
31.03.2025	Id-ul-Fitr		
01.04.2025	Introduction to relation between roots and coefficients of an equation		Examples of valuation of simple loans and debentures
02.04.2025	Examples of solution of polynomial equations having conditions on roots	Examples of Binomial Theorem	
03.04.2025	Examples of solution of polynomial equations having conditions on roots	Introduction to Permutation	Examples of valuation of simple loans and debentures
04.04.2025		Examples of Permutation	Examples of problems related to sinking funds
05.04.2025		Examples of Permutation	
07.04.2025	Examples of solution of polynomial equations having conditions on roots		Examples of problems related to sinking funds
08.04.2025	Examples of common roots and multiple roots of equations		Introduction to indices and logarithms
09.04.2025	Examples of common roots and multiple roots of equations	Examples of Permutation	

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
10.04.2025	Mahavir Jayanti		
11.04.2025		Examples of Permutation	Examples of Indices and logarithms
12.04.2025		Examples of Permutation	
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025	Transformation of equations and examples		Examples of Indices and logarithms
16.04.2025	Transformation of equations and examples	Examples of Permutation	
17.04.2025	Nature of roots of equation with examples	Introduction to Combination	Introduction to Arithmetic Progression(A.P) and based examples
18.04.2025		Examples of Combination	Examples of A.P
19.04.2025		Examples of Combination	
21.04.2025	Test and Assignment		Examples of A.P and their business applications
22.04.2025	Descarte's rule of signs and examples		Introduction to Geometric Progression(G.P) and their examples
23.04.2025	Descarte's rule of signs and examples	Examples of Combination	
24.04.2025	Solutions of cubic equations using Cardon's Method and examples	Examples of Combination	Examples of G.P
25.04.2025		Examples of Combination	Examples of G.P and their business applications
26.04.2025		Introduction to Linear Programming	
28.04.2025	Solutions of cubic equations using Cardon's Method and examples		Examples of Sum of first n natural numbers, sum of squares and cubes of first n natural numbers
29.04.2025	Parshu Ram Jayanti		
30.04.2025	Akshay Tritiya		
01.05.2025	Solutions of cubic equations using Cardon's Method and examples	Formulation of linear programming problems(LPP) and their solution by Graphical Method	Examples of Sum of first n natural numbers, sum of squares and cubes of first n natural numbers
02.05.2025		Formulation of linear programming problems(LPP) and their solution by Graphical Method	Examples of Sum of first n natural numbers, sum of squares and cubes of first n natural numbers

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
03.05.2025		Formulation of linear programming problems(LPP) and their solution by Graphical Method	
05.05.2025	Solutions of biquadratic equations using Descarte's method		Introduction to Linear Programming Problem(L.P.P) and their solutions by graphical methods
06.05.2025	Solutions of biquadratic equations using Descarte's method		Examples of L.P.P
07.05.2025	Solutions of biquadratic equations using Ferrari's method	Formulation of linear programming problems(LPP) and their solution by Graphical Method	
08.05.2025	Introduction to Divisibility, gcd and lcm with examples	Formulation of linear programming problems(LPP) and their solution by Graphical Method	Examples of L.P.P
09.05.2025		Solution of LPP by Simplex Method	Solution of L.P.P by Simplex Method
10.05.2025		Solution of LPP by Simplex Method	
12.05.2025	Examples of divisibility, gcd, lcm, prime numbers and fundamental theorem of Arithmetic		Solution of L.P.P by Simplex Method
13.05.2025	Examples of divisibility, gcd, lcm, prime numbers and fundamental theorem of Arithmetic		Solution of L.P.P by Simplex Method
14.05.2025	Introduction to Linear Congruence and examples	Solution of LPP by Simplex Method	
15.05.2025	Fermat's theorem and Euler's Theorem with examples	Solution of LPP by Simplex Method	Applications of Linear Programming in solving business problems
16.05.2025		Solution of LPP by Simplex Method	Applications of Linear Programming in solving business problems
17.05.2025		Solution of LPP by Simplex Method	
19.05.2025	Fermat's theorem and Euler's Theorem with examples		Applications of Linear Programming in solving business problems

Date	Class: B.A/B.Sc I Year	Class: B.Com. I Year	Class: B.B.A I Year
	Semester : II	Semester: II	Semester: II
20.05.2025	Wilson's theorem and its converse with examples		Applications of Linear Programming in solving business problems
21.05.2025	Chinese Remiander Theorem with examples	Applications of Linear programming in solving problems related to business and commerce	
22.05.2025	Linear diaphantine equations in two vaiables and examples	Applications of Linear programming in solving problems related to business and commerce	Applications of Linear Programming in solving business problems
23.05.2025		Applications of Linear programming in solving problems related to business and commerce	Revision of Complete syllabus
24.05.2025		Revision of Complete syllabus	
26.05.2025	Revision of Complete syllabus		Revision of Complete syllabus
27.05.2025	Test of Complete Syllabus		Test of Complete Syllabus
28.05.2025	Revision of Complete syllabus	Revision of Complete syllabus	
29.05.2025	Maharana Pratap Jayanti		
30.05.2025		Test of Complete Syllabus	Revision of Complete syllabus
31.05.2025		Revision of Complete syllabus	
01.06.2025	Examination Onwards		

Dayanand Mahila Mahavidyalaya, Kurukshetra	
Lesson Plan (UG & PG Final Year - Even Semester)	
Session 2024-25 (01.01.2025 to 30.04.2025)	
Name of teacher: Mrs. Prabhjot Kaur	
Subject: Mathematics	
Date	Class: B.A/B.Sc III
	Semester: VI (Real and Complex Analysis)
01.01.2025	Basic Definition and Introduction to Jacobians
02.01.2025	Some theorems on Jacobian
03.01.2025	Some theorems on Jacobian
04.01.2025	Beta function and its properties
06.01.2025	Guru Gobind Singh Ji Jayanti
07.01.2025	Beta function and its properties
08.01.2025	Examples of beta function
09.01.2025	Gamma function and its properties
10.01.2025	Examples of gamma function
11.01.2025	Examples of gamma function
13.01.2025	Relation between beta and gamma function
14.01.2025	Relation between beta and gamma function
15.01.2025	Double integral and its examples
16.01.2025	Double integral and its examples
17.01.2025	Substitution method for double integrals
18.01.2025	Test and Assignment
20.01.2025	Substitution method for double integrals
21.01.2025	Triple integral and its examples
22.01.2025	Substitution method for triple integrals
23.01.2025	Substitution method for triple integrals
24.01.2025	Applications of double integral and triple integral
25.01.2025	Applications of double integral and triple integral
27.01.2025	Dirichlets integrals and its examples
28.01.2025	change of order of integration in double integrals and its examples
29.01.2025	change of order of integration in double integrals and its examples
30.01.2025	Fourier's Series and Fourier expansion of piecewise monotonic functions
31.01.2025	Examples of Fourier series and Properties of Fourier coefficients
01.02.2025	Dirichlets condition and its examples
03.02.2025	Dirichlets condition and its examples
04.02.2025	Examples of Fourier series
05.02.2025	Parseval's identity for Fourier series and its examples
06.02.2025	Parseval's identity for Fourier series and its examples
07.02.2025	Parseval's identity for Fourier series and its examples
08.02.2025	Fourier series for even functions and its examples
10.02.2025	Fourier series for even functions and its examples
11.02.2025	Fourier series for odd functions and its examples
12.02.2025	Guru Ravidass Jayanti
13.02.2025	Fourier series for odd functions and its examples
14.02.2025	Half range series and its examples
15.02.2025	Half range series and its examples

Date	Class: B.A/B.Sc III
	Semester: VI (Real and Complex Analysis)
17.02.2025	Change of intervals and its examples
18.02.2025	Change of intervals and its examples
19.02.2025	Change of intervals and its examples
20.02.2025	Extended complex plane and Stereographic projection of complex numbers
21.02.2025	Examples of stereographic projection
22.02.2025	Examples of stereographic projection
24.02.2025	Continuity of complex functions and its examples
25.02.2025	Continuity of complex functions and its examples
26.02.2025	Maha Shivratri
27.02.2025	Differentiability of complex functions and its examples
28.02.2025	Differentiability of complex functions and its examples
01.03.2025	Analytic functions , its theorems and examples
03.03.2025	Analytic functions , its theorems and examples
04.03.2025	Analytic functions , its theorems and examples
05.03.2025	Cauchy-Reimann equations and its examples
06.03.2025	Cauchy-Reimann equations and its examples
07.03.2025	Cauchy-Reimann equations and its examples
08.03.2025	Test and Assignment
09.03.2025 to 16.03.2025	
17.03.2025	Harmonic functions and it examples
18.03.2025	Harmonic functions and it examples
19.03.2025	Harmonic functions and it examples
20.03.2025	Harmonic functions and it examples
21.03.2025	Mapping by elementary functions and Some elementary mappings
22.03.2025	Translation, Rotation, Magnification, Inversion and their examples
24.03.2025	Translation, Rotation, Magnification, Inversion and their examples
25.03.2025	Translation, Rotation, Magnification, Inversion and their examples
26.03.2025	Mobius transformation, Nature and examples of mobius transformation
27.03.2025	Mobius transformation, Nature and examples of mobius transformation
28.03.2025	Mobius transformation, Nature and examples of mobius transformation
29.03.2025	Fixed points and their properties, Cross ratio
31.03.2025	Id-ul-Fitr
01.04.2025	Fixed points and their properties, Cross ratio
02.04.2025	Fixed points and their properties, Cross ratio
03.04.2025	Fixed points and their properties, Cross ratio
04.04.2025	Inverse points and some examples of inverse points
05.04.2025	Inverse points and some examples of inverse points
07.04.2025	Inverse points and some examples of inverse points
08.04.2025	Theorems on critical mappings
09.04.2025	Theorems on critical mappings
10.04.2025	Mahavir Jayanti

Date	Class: B.A/B.Sc III
	Semester: VI (Real and Complex Analysis)
11.04.2025	Theorems on critical mappings
12.04.2025	Theorems on critical mappings
14.04.2025	Dr. B.R. Ambedkar Jayanti
15.04.2025	Examples of critical mappings
16.04.2025	Examples of critical mappings
17.04.2025	Examples of critical mappings
18.04.2025	Examples of critical mappings
19.04.2025	Some more mappings and examples
21.04.2025	Some more mappings and examples
22.04.2025	Some more mappings and examples
23.04.2025	Revision of Complete syllabus
24.04.2025	Revision of Complete syllabus
25.04.2025	Test of Complete syllabus
26.04.2025	Revision of Complete syllabus
28.04.2025	Revision of Complete syllabus
29.04.2025	Parshu Ram Jayanti
30.04.2025	Akshay Tritiya
01.05.2025	Examination Onwards

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG -NEP Second & Fourth Semester - Even Semester)
Session 2024-25 (08.02.2025 to 31.05.2025)
Name of teacher: Ms. Sonali kumari

Subject: Mathematics

Date	Class. B.com.(Business Mathematics)	Class B.C.A (Mathematical foundations of computer science)	Class. B.A/B.Sc (4th sem)
	Semester IInd sem	Semester IInd sem	Semester 4th sem
08.02.2025	Introduction to Differentiation	Introduction to indefinite integrals	
10.02.2025		Integration of simple algebraic function	Introduction to conic section
11.02.2025		Examples of indefinite integrals	classification of conic section
12.02.2025	Guru Ravidass Jayanti		
13.02.2025	Basic Formula of differentiation	Integration by substitution	Center and asymptotes and it's examples
14.02.2025	Derivative of simple functions	Integration of Trigonometric functions	
15.02.2025	Derivative of logarithmic and exponential functions	Integration of exponential functions	
17.02.2025		Examples of substitution method	Foci and directrices of conic and examples
18.02.2025		Integration by parts	The Parabola in General and it's examples
19.02.2025		Examples of integration by parts	Some definition and To find the equation of Tangent at any point on the conic
20.02.2025	Differentiation of implicit function and it's examples	Examples of integration by parts	Chord of contact and it's examples
21.02.2025	Differentiation in case of parametric function and examples	Examples of integration by parts	
22.02.2025	Derivative of higher order	Partial fraction and their uses in integration	
24.02.2025		Examples of partial fraction	Pole of line to a conic, Director circle of a conic
25.02.2025		Some special function and example	Examples
26.02.2025	Maha Shivratri		
27.02.2025	Examples of higher order derivative	Examples of special function	Doubt Session
28.02.2025	Examples of higher order derivative	Revision	
01.03.2025	Revision	Test	
03.03.2025		Introduction to presentation of data	Confocal Conics Introduction

04.03.2025		Cumulative frequency distribution	Theorem on confocal Conics
05.03.2025	Test + Assignment	Examples	Examples of confocal Conics
06.03.2025	Maxima and Minima and it's examples	Examples	Test+Assignment
07.03.2025	Local maxima and Minima and it's examples	Diagrammatic and graphical presentation of data	
08.03.2025	Absolute maxima and Minima and it's examples	Construction of Bar graphs and examples	
09.03.2025 to 16.03.2025		Holi Vacations	
17.03.2025		Assignment and Test	Polar equation of a conic
18.03.2025		Pie diagram and examples	Tangent to a conic and examples
19.03.2025	Practical problem on Maxima and Minima	Histogram and it's examples	Normal to a conic and examples
20.03.2025	Practical problem on Maxima and Minima	Frequency curve and frequency polygon	Test
21.03.2025	Some important functions related to Commerce and Economics	Examples of frequency curve	
22.03.2025	Examples	Ogives	
24.03.2025		Revision	General form of sphere and examples
25.03.2025		Introduction to arithmetic mean	Plane section of a sphere and example
26.03.2025	Indefinite integration and examples	Examples of mean	Sphere through a given circle
27.03.2025	Indefinite integration and examples	Median and examples	Intersection of two spheres, tar
28.03.2025	Integration by substitution and examples	Examples of Median	
29.03.2025	Integration by parts and it's examples	Mode and it's examples	
31.03.2025	Id-ul-Fitr		
01.04.2025		Geometric Mean and it's examples	Polar plane and line and examples
02.04.2025	Integration by parts and it's examples	Mode and it's examples	Orthogonal spheres and it's examples
03.04.2025	Partial fraction and examples	Mode and it's examples	Radical plane of two spheres and co axial system of spheres
04.04.2025	Partial fraction and examples	Harmonic mean and examples	
05.04.2025	Examples	Examples of harmonic mean	
07.04.2025		Introduction to Measure of Dispersion	Test
08.04.2025		Examples of Mean deviation from Mean and Median	Equation of cone, right circular cone and examples

09.04.2025	Test	Examples of Mean deviation from Mean and Median	Quadric cone ,enveloping cone and it's examples
10.04.2025	Mahavir Jayanti		
11.04.2025	Definite integral and examples	Standard deviation and it's examples	
12.04.2025	Definite integral and examples	coefficient of variation and it's examples	
14.04.2025	Dr. B.R. Ambedkar Jayanti		
15.04.2025		Standard deviation and it's examples	Tangent plane and condition of tangency
16.04.2025	Application of integration in Commerce and Economics	coefficient of variation and it's examples	Examples
17.04.2025	Examples	Correlation introduction and it's types ,Degree of correlation	Right circular cylinder and enveloping cylinder
18.04.2025	Examples	Doubt Session	
19.04.2025	Introduction to Factorial and examples	Scatter Diagram, Covariance and examples	
21.04.2025		Test	Equation of Tangent plane of conicoids
22.04.2025		Karl Pearson's coefficient of correlation	Director sphere ,Normal to the conicoids and examples
23.04.2025	Introduction to Factorial and examples	Examples of Karl Pearson's coefficient	Polar plan of a point , Enveloping cone of a conicoid
24.04.2025	Permutations and examples	Examples of Karl Pearson's coefficient	Enveloping cylinder of a conicoid, confocal conicoid
25.04.2025	Practical problems on Permutations	Spearman's Rank correlation	
26.04.2025	Practical problems on Permutations	Examples of Spearman's Rank correlation	
28.04.2025		Examples of Spearman's Rank correlation	Reduction of second degree equation
29.04.2025		Examples of regression coefficients	
30.04.2025	Akshay Tritiya		
01.05.2025	Combination and examples	Revision	Reduction of second degree equation
02.05.2025	Practical problems on combination	Test	
03.05.2025	Practical problems on Permutations	Regression introduction,Line of Regression	
05.05.2025		Properties of Regression coefficients and regression line	Revision

06.05.2025		Examples of regression coefficients	Scalar and Vector product of three vectors, four vectors
07.05.2025	Test	Examples of regression coefficients	Reciprocal vectors, Vector Differentiation and Integration along curves
08.05.2025	Introduction to Binomial Theorem and examples	Examples of regression coefficients	Test + Assignment
09.05.2025	General term in a binomial expansion	Standard error of an estimate	
10.05.2025	Examples	Examples of standard error	
12.05.2025		Examples of standard error	Directional derivative , Gradient of a scalar point function
13.05.2025		Examples of standard error	Divergence and curl of vector point function
14.05.2025	Application of Binomial Theorem	Doubt Session	Geometrical meanings and vector identities of divergence and curl
15.05.2025	Introduction to linear programming	Revision	Vector integration
16.05.2025	Formulation of LPP	Test	
17.05.2025	Solution of LPP by graphical method	Doubt Session	
19.05.2025		Revision	line and surface integral
20.05.2025		Test	Volume integration
21.05.2025	Solution of LPP by graphical method	Revision	Theorem of Gauss and examples
22.05.2025	Solution of LPP by Simplex method	PYQ discussion	Theorem of Green and examples
23.05.2025	Solution of LPP by Simplex method	PYQ discussion	
24.05.2025	Application of LPP in solving pr	Test of half syllabus	
26.05.2025		Test of half syllabus	Theorem of Stokes and it's examples
27.05.2025		Test	Revision
28.05.2025	Revision	Test	Revision
29.05.2025	Maharana Pratap Jayanti		
30.05.2025	Test	Test	
31.05.2025	Revision	Test	
01.06.2025	Examination Onwards		

angent plane and line

Dayanand Mahila Mahavidyalaya, Kurukshetra
Lesson Plan (UG & PG Final Year - Even Semester)
Session 2024-25 (01.01.2025 to 30.04.2025)

Name of teacher: Ms. Sonali kumari

Subject : Mathematics

Date	Class B.A/B.Sc. (linear algebra)	Class B.A/B.SC (Dynamic)
	Semester 6th	Semester 6th
01.01.2025	Vector space- Introduction and Definition	Introduction of space, body, matter, particle
02.01.2025	Examples of vector spaces	Introduction of velocity, acceleration and their units
03.01.2025	Examples of vector spaces	velocity and acceleration along a plane curve
04.01.2025	Some properties of vector spaces	Component of velocity and acceleration along coordinate axis
06.01.2025	Guru Gobind Singh Ji Jayanti	
07.01.2025	Subspaces, Some theorems on subspaces	Angular velocity and angular acceleration along a plane curve
08.01.2025		:Motion of a particle along a plane curve
09.01.2025	Sum of Linear subspaces	Examples of motion of particle along a lane curve
10.01.2025		Relation between angular and linear velocity
11.01.2025	Direct sum of Linear subspaces	Radial and transverse velocity and acceleration
13.01.2025	Linearly independent and linearly dependent subsets of a vector space	Examples of Radial and transverse velocity and acceleration
14.01.2025	Some results on Linearly independent and linearly dependent set of vectors	Tangential and normal velocity
15.01.2025	Some results on Linearly independent and linearly dependent set of vectors	Tangential and normal acceleration
16.01.2025	Finitely generated vector space	Examples of Tangential and normal acceleration
17.01.2025	Some examples of finitely generated vector space	Introduction to relative displacement
18.01.2025	Basis of a vector space	Determination of relative velocity
20.01.2025	Existence theorem for basis of a finitely generated vector space	Expression for the magnitude and direction of relative velocity
21.01.2025	Finite dimensional vector spaces	Expression for the magnitude and direction of relative acceleration
22.01.2025	Some examples of Finite dimensional vector spaces	Examples of relative velocity and acceleration
23.01.2025	Test	Simple harmonic motion(S.H.M)
24.01.2025	Invariance of the number of elements of basis sets	Nature of S.H.M
25.01.2025	Dimensions of vector spaces	Amplitude of S.H.M. and periodic motion
27.01.2025	Examples of basis, dimension of vector spaces	S.H.M is periodic and its period
28.01.2025	Quotient space	(1) Assignment
29.01.2025	Some theorems on quotient space	Frequency of S.H.M
30.01.2025	Test	Examples of S.H.M
31.01.2025	Dimension of quotient space	Introduction of elastic strings
	Homomorphism of vector spaces	

01.02.2025	Test	Hook's Law and examples
03.02.2025	Examples of homomorphism of vector spaces	Hook's Law and examples
04.02.2025	Isomorphism of vector spaces	Horizontal elastic strings and examples
05.02.2025		Horizontal elastic strings and examples
	Examples of isomorphism of vector spaces	
06.02.2025	Linear transformations and linear forms on vector spaces	Vertical elastic strings and examples
07.02.2025		Test
	Some theorems on linear transformations and linear forms on vector spaces	
08.02.2025		Vertical elastic strings and examples
	Some theorems on linear transformations and linear forms on vector spaces	
10.02.2025	Dual spaces	Test + Submission of Assignment
11.02.2025	Examples of dual spaces	Introduction to mass, momentum and force
12.02.2025	Guru Ravidass Jayanti	
13.02.2025	Examples of dual spaces	First Law of motion
14.02.2025	Bidual spaces	Second Law of motion
15.02.2025	Test + Submission of Assignment	Third Law of motion
17.02.2025	Examples of bidual spaces	Absolute and gravitational units of force
18.02.2025	Examples of bidual spaces	Examples of force
19.02.2025	Annihilator of subspaces of finite dimension la vector spaces	Examples of force
20.02.2025	Examples of annihilators	Pressure of a body resting on a plane
21.02.2025	Null space	Motion of a lift and examples
22.02.2025	Theorems on null space	Motion of a lift and examples
24.02.2025		Motion of two bodies connected by string and examples
	Examples of null space	
25.02.2025		Motion of two bodies connected by string and examples
	Examples of null space	
26.02.2025	Maha Shivratri	
27.02.2025		Motion on smooth and rough plane and examples
	Range space of linear transformation	
28.02.2025		Motion on smooth and rough plane and examples
	Theorems on range space	
01.03.2025	Examples of range space	Atwood's machine and examples
03.03.2025	Rank and nullity theorem	Atwood's machine and examples
04.03.2025	Examples of rank-nullity theorem	(2) Assignment
05.03.2025	Examples of rank-nullity theorem	Introduction to work
06.03.2025	Algebra of linear transformation	Measurements and units of work
07.03.2025	Theorems on algebra of linear transformation	Work done by variable force
08.03.2025	Theorems on algebra of linear transformation	Examples of work
09.03.2025 to 16.03.2025		Holi Vacations
17.03.2025	Minimal polynomial of a linear transformation	Examples of work
18.03.2025	Examples of minimal polynomial of linear transformations	Examples of work
19.03.2025	Examples of minimal polynomial of linear transformations	Introduction to power

20.03.2025	Singular linear transformations	Examples of power
21.03.2025	(2) Assignment on Rank and Nullity	Examples of power
22.03.2025	Examples of singular transformation	Examples of power
24.03.2025	Non-singular linear transformation	Test + Submission of Assignment
25.03.2025	Examples of non-singular transformations Some theorems on singular and non-singular transformation	Introduction to energy
26.03.2025		Examples of energy
27.03.2025		Examples of energy
28.03.2025	Matrix of a linear transformation	Motion of a particle on smooth curve and examples
29.03.2025	Theorems on matrix of linear transformation	
29.03.2025	Test + Submission of Assignment	Motion on outside of verticle circle and examples
31.03.2025	Id-ul-Fitr	
01.04.2025	Examples of matrix of linear transformation Change of basis and theorems Examples of change of basis Eigen values and Eigen vectors of linear transformations Some theorems on Eigen values and Eigen vectors Some examples on Eigen values and Eigen vectors Inner product spaces and its examples Cauchy-Schwarz inequality	Motion on inside of verticle circle and examples
02.04.2025		Cycloidal motion
03.04.2025		Motion on a rough curve under gravity
04.04.2025		Motion of Projectile
05.04.2025		Time of flight, horizontal range and greatest height of projectile
07.04.2025		Velocity at any point of the trajectory
08.04.2025		Directions of projectile for a particle to hit a given point
09.04.2025		Range and time of flight on an inclined plane
10.04.2025	Mahavir Jayanti	
11.04.2025	Orthogonal vectors and its examples	Range and time of flight down an inclined plane
12.04.2025	Orthogonal complements and its examples	Introduction of central orbit and its differential equation
14.04.2025	Dr. B.R. Ambedkar Jayanti	
15.04.2025	Orthogonal sets and basis	Elliptic, hyperbolic and parabolic orbit
16.04.2025	Some theorems on orthogonal sets and basis	Aps and apsidal distance, velocity form infinity
17.04.2025	Some theorems on orthogonal sets and basis	Kepler's law of planetary motion
18.04.2025	Bessel's inequality for finite dimensional vector spaces	Motion under inverse square law
19.04.2025	Bessel's inequality for finite dimensional vector spaces	Velocity and acceleration of a particle along a curve
21.04.2025	Gram-Schmidt Orthogonalization process	Velocity and acceleration of a particle along a curve
22.04.2025	Examples on Gram-Schmidt Orthogonalization process	Velocity and acceleration of a particle in spherical and cylindrical coordinates
23.04.2025	Adjoint of linear transformation and its properties	Velocity and acceleration of a particle in spherical and cylindrical coordinates
24.04.2025	Unitary Linear transformations	Revision of complete syllabus
25.04.2025	Examples of unitary linear transformation	Revision of complete syllabus
26.04.2025		Test

28.04.2025	Revision of complete syllabus	Revision
29.04.2025	Parshu Ram Jayanti	
30.04.2025	Akshay Tritya	
01.05.2025	Examination Onwards	