KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher– Manju Rani
Class- M.Sc. Mathematics
Subject- Field Theory
Paper- M24-MAT-201

3rdWeek 12Jan–17 Jan	Irreducible polynomial, Eisenstein criterion and its examples, Gauss lemma.
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Fields Extensions And Degree of An Extension and its theorem.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Algebraic And Transcendental Elements And Theorems Based On it, Algebraic Extensions And its Theorems, Finitely Generated Algebraic Extension.

February,2026 **1stWeek** **1Feb, 2026**	**Guru Ravidas Jayanti, Sunday**
2Feb– 7Feb	**Conjugate element, Algebraic Closure, Algebraically Closed Fields.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Splitting Fields and its theorems and its related example.**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Normal Extensions and its theorem, Finite field.**
22Feb,2026	**Sunday**
4thWeek **23Feb-28Feb**	**Common root, multiple roots, prime field, Characterization of prime field.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Separable extension and its theorem.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Primitive element, Theorem of Primitive Element.** **Perfect Field and its theorems.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4thWeek **24March–28 March**	**Automorphism group, fixed field, Galois extensions, Galois group of an extension and its theorems.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Test**
31March, 2026	**Mahavir Jayanti**

April,2026 1st Week 1April–4 April	Fundamental Theorem of Algebra, Roots of unity, Cyclic extension.
5April,2026	Sunday
2ndWeek 6 April-9April	Dedekind Lemma, Fundamental Theorem of Galois Theory.
12April,2026	Sunday
3rdWeek 10 April-18April	Sessional Exams
14April,2026 19April,2026	Dr. B. R. Ambedkar Jayanti/Vaisakhi Parshuram Jayanti /Akshay Tirtiya, Sunday
4thWeek 20April - 24 April	Sessional Exams
26April,2026	Sunday
5thWeek 25April - 30 April	Klein four group, Frobenius automorphism of a finite field, Some example. Cyclotomic polynomials and Their Irreducibility over Q, Theorems based on it.

May,20261st Week 1May – 2 May2026	Construction with Ruler and Compass, its related theorem.
3May,2026	Sunday
2ndWeek 4May-5May	Symmetric function, Elementary symmetric function
6 May, 2026 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Dr. Deepika
Class- M. Sc. (Maths) Sem. - II
Subject- Measure and Integration
Paper: M24-MAT-202

3rdWeek 12Jan–17 Jan	Lebesgue outer measure, Elementary properties of outer measure, Measurable sets and their properties.
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Lebesgue measure of sets of real numbers, Algebra of measurable sets.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Borel sets and their measurability, Characterization of measurable sets in terms of open, closed, Fσ and Gδ sets.

February,2026 **1st Week** **1Feb, 2026**	**Guru Ravidas Jayanti, Sunday**
2Feb– 7Feb	**Existence of a non measurable set, Lebesgue measurable functions and their properties, Characteristic functions, Simple functions, Test.**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Approximation of measurable function by a sequence of simple functions, Functions as nearly continuous functions**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Borel measurability of a function, Class Discussion**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Littlewood's three principles, measurable functions as nearly continuous functions, Lusin's theorem, Almost uniform convergence, Test.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Egoroff's theorem, convergence in measure, F. Riesz theorem**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Shortcomings of Riemann integral, Lebesgue integral of a bounded function over a set of finite measure and its properties.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id- ul- Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4thWeek **24March–28 March**	**Lebesgue integral as a generalization of Riemann integral, Discussion on examples, Test**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Discussion on examples.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	Bounded convergence theorem, Lebesgue theorem regarding points of discontinuity of Riemann integral functions, Integral of a non negative function.
5April,2026	Sunday
2ndWeek 6 April-11April	Fatou's lemma, Monotone convergene theorem, Integration of series, the general Lebesgue integral, Lebesgue convergence theorem, Differentiation and Integration: Differentiation of monotone functions
12April,2026	Sunday
3rdWeek 13 April-18April	Sessional Exams
14April,2026 19April,2026	Dr. B. R. Ambedkar Jayanti/Vaisakhi Parshuram Jayanti /Akshay Tirtiya, Sunday
4thWeek 20April - 25 April	Sessional Exams
26April,2026	Sunday
5thWeek 27April - 30 April	Vitali's covering lemma, the four Dini derivatives. Lebesgue differentiation theorem, Functions of bounded variation and their representation as a difference of monotone functions.

May,20261st Week 1May – 2 May2026	Group Discussion, Differentiation of integral, Absolutely continuous functions and their properties, Convex functions.
3May,2026	Sunday
2ndWeek 4May-5May	Jensen's inequality, The Lp spaces, Group Discussion
6 May, 2026 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Dr. Deepika
Class- M. Sc. (Maths) Sem. - II
Subject- Topology
Paper: M24-MAT-203

3rdWeek 12Jan–17 Jan	Definition and examples of topological spaces, neighbourhoods, neighbourhood system of a point and its properties.
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Interior point and interior of a set, interior as an operator and its properties, definition of a closed set as complement of an open set, limit point (accumulation point)
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Derived set of a set, adherent point (closure point) of a set, closure of a set, closure as an operator and its properties, dense sets and separable spaces, Test.

February,2026 **1stWeek** **1Feb, 2026**	**Guru Ravidas Jayanti, Sunday**
2Feb– 7Feb	**Base for a topology and its characterization, base for neighbourhood system, sub-base for a topology.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Relative (induced) topology and subspace of a topological space, Discussion on examples**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Alternate methods of defining a topology using properties of neighbourhood system, interior operator, closed sets, Kuratowski closure operator.**
22Feb,2026	**Sunday**
4thWeek **23Feb-28Feb**	**Comparison of topologies on a set, about intersection and union of topologies,** **The collection of all topologies on a set as a complete lattice, First countable, second countable, their relationships and hereditary property.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Countability of a collection of disjoint open sets in a separable and a second countable space Lindelof theorem, Definition, examples, characterizations of continuous functions**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Composition of continuous functions, Open and closed functions closed functions, homeomorphism.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id- ul- Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4thWeek **24March–28 March**	**Tychonoff product topology, projection maps, their continuity and openness, Characterization of product topology as the smallest topology such that the projections are continuous.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Discussion on examples.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Continuity of a function from a space into a product of spaces. Connectedness and its characterization, Connected subsets and their properties.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Continuity and connectedness, Components, Locally connected spaces,T0, T1, T2 spaces, productive property of Tl and T2 spaces. Regular and T3 separation axioms, their characterization and basic properties i.e. hereditary and productive properties.**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Sessional Exams**
14April,2026 19April,2026	**Dr. B. R. Ambedkar Jayanti/Vaisakhi Parshuram Jayanti /Akshay Tirtiya, Sunday**
4thWeek 20April - 25 April	**Sessional Exams**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Their characterization and basic properties. Quotient topology w.r.t. a map, continuity of function with domain a space having quotient topology about Hausdorffness of quotient space.**

May,20261st Week 1May – 2 May2026	**Completely regular and Tychonoff spaces, their hereditary and productive properties. Embedding lemma, Embedding theorem. Normal and T4 spaces, Urysohn's Lemma, complete regularity of a regular normal space, Tietze's extension theorem (statement only).**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Discussion on examples and Test.**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher– Manju Rani
Class- M.Sc. Mathematics, Sem-II
Subject- Advanced Differential Equations
Paper- M24-MAT-204

3rd Week 12Jan–17 Jan	Definition and notations of linear differential system, Linear homogenous system, Definition of fundamental matrix and Adjoint system, Reduction of the order of a homogeneous system.
18 Jan,2026	Sunday
4th Week 19Jan–24 Jan	Non-homogeneous linear system, Variation of constant, Linear system with constant coefficients.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5th Week 27Jan–31 Jan	Linear system with constant coefficients.

February,2026 **1st Week** **1Feb, 2026**	**Guru Ravidas Jayanti, Sunday**
2Feb– 7Feb	**Linear system with periodic coefficients, Floquet theory.**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**System of differential equations; Preliminary concepts, Differential equation of order n and its equivalent system of differential equations.**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Existence and uniqueness of solutions of system of differential equations** **Continued it.**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Continued it.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Dependence of solutions on initial conditions and parameters: Preliminaries, continuity and differentiability of solution of a system of differential equations as a function of initial parameters.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Autonomous systems, the critical points. Types of critical points: Node, Center, Saddle point, Spiral point, Stability of critical points.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru &Sukhdev**
4thWeek **24March–28 March**	**Discussion on student's problems. Critical points and paths of linear systems: basic theorems and their applications.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Test**
31March, 2026	**Mahavir Jayanti**

April,2026 1st Week 1April–4 April	**Critical points and paths of non-linear systems: basic theorems and their applications, Non-linear conservative systems, Potential energy function.**
5April,2026	**Sunday**
2ndWeek 6 April-9April	**Bendixson's non-existence theorem, Half-path , Limit set.**
12April,2026	**Sunday**
3rdWeek 10 April-18April	**Sessional Exams**
14April,2026 19April,2026	**Dr. B. R. Ambedkar Jayanti/Vaisakhi Parshuram Jayanti /Akshay Tirtiya, Sunday**
4thWeek 20April - 24 April	**Sessional Exams**
26April,2026	**Sunday**
5thWeek 25April - 30 April	**Stability of linear and non-linear systems: System of equations with coefficients, linear equation with constant coefficients, Lyapunov Stability: Stability of solution of a differential system, Positive Definite and semidefinite function.**

May,20261st Week 1May – 2 May2026	**Lyapunov's theorems on stability, Stability of quasi- linear systems. Boundedness of solution of a second order differential equation.**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN,KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Ms.Monila Bansal
Class- M.Sc. SemII NEP
Subject- Mathematics
Paper-Computer Programming with MATLAB(M24-MAT-205)

3rdWeek 12Jan–17 Jan	Introduction to MATLAB programming Basics of Programming Anatomy of a program Constants, Characters, Variables
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Data types; Assignments; Operators; functions; Examples of expressions; Entering long statements; Command line editing. Good programming style Working with vectors: Defining a Vector, Accessing elements within a vector, Basic operations on vectors; Mathematical functions
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Strings; String functions; Cell array; Creating cell array; Concatenation. Working with Matrices: Generating matrices; Mathematical operations and functions; Deleting rows /columns; Linear algebra; Arrays; Multivariate data; Scalar expansion; Logical subscripting

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Input and output: Save/Load functions, M-files, The find function; The format function; Suppressing output**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Flow Control: if and else, switch and case, for loop, while loop, continue. break, try – catch, return.** **Data Structures: Multidimensional arrays**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Cell arrays, Characters and text; Structures,** **Scripts and Functions: Scripts; Functions; Types of functions** **Global variables; Passing string arguments to functions**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**The eval function; Function handles; Function functions; Vectorization; Preallocation.** **Linear Differential equation of order n with constant coefficient; Characterstic roots, fundamental set**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Graphics: Plotting process; Graph components; Figure tools; Arranging graphs within a figure; Selecting plot types; Plot editing mode,**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Using functions to edit graphs; Modifying a graph data source; Modify a graph to enhance the presentation; Printing a graph; Exporting a graph.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Basic Plotting Functions: Creating a plot; Multiple data sets in one graph; Specifying line styles and colors; Plotting lines and markers; Imaginary and complex data; Adding plots to existing graph**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Figure windows; Multiple plots in one figure; Controlling the axes; Axis labels and titles,Saving figures**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	Mesh and Surface Plots: Visualizing functions of two variables; Reading/writing images
5April,2026	Sunday
2ndWeek 6 April-11April	Printing and Handle Graphics: Using the handle; Graphics object; Setting object Properties; Specifying the axes or figure, Finding the handles of existing objects. Animations: Erase mode method, Creating movies.
12April,2026	Sunday
3rdWeek 13 April-18April	Symbolic Math: Symbolic objects; Creating symbolic variables and expressions; The findsym Command; The default symbolic variable; Constructing real and complex variables; Creating abstract functions; Creating symbolic math functions; Creating an M-file.
14April,2026 19April,2026	Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday
4thWeek 20April - 25 April	Sessional exams
26April,2026	Sunday
5thWeek 27April - 30 April	Sessional exams

May,20261st Week 1May – 2 May2026	Calculus: Limits; Differentiation; Integration; Symbolic summation; Taylor series; Examples; Simplifications and substitutions, Variable-precision arithmetic examples
3May,2026	Sunday
2ndWeek 4May-5May	Linear Algebra: Basic algebraic operations; Linear algebraic operations; Eigenvalues; Jordan canonical form; Singular value decomposition; Eigenvalue trajectories. Solving Equations: System of algebraic equations, System of differential equations
6 May, 2026 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

NameoftheTeacher– Ms. Anita
Class – M.Sc. (Math) 1st Year
Subject– Constitutional Human and Moral Values and IPR
Paper– Paper- M24-CHM-201

3rdWeek 12Jan–17 Jan	Constitutional Values: Historical Perspective of Indian Constitution.
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Basic Values enshrined in the Preamble of the Indian Constitution; Concept of Constitutional Morality.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Patriotic Values and Ingredients Nation Building.

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Fundamental Rights and Duties, Directive Principles of the State Policy**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Humanistic Values: Humanism, Human Virtues and Civic Sense**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Social Responsibilities of Human Beings; Ethical ways to deal with human aspirations; Harmony with society.**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Nature idea of International Peace and Brotherhood(Vasudhaiv Kutumbkam), Moral Values and Professional Conduct: Understanding Morality,**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2nd Week **9 March– 14 March**	**Understanding Morality and Moral Values; Moral Education,**
15March, 2026	**Sunday**
3rd Week **16March–20 March**	**Character Building; Ethics of Relations: Personal, Social and Professional,**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4th Week **24March–28 March**	**Introduction to Gender Sensitization, Affirmative approach towards Weaker Sections (SCs, STs, OBCs, EWS &Das)**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	**Ethical Conduct in Higher Education Institutions; Professional Ethics**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Intellectual Property Rights: Meaning, Origins.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Nature of Intellectual Property Rights (IPRs); Different Kinds of IPRs- Copyright Patent.**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Trademark, Trade Secret/Dress, Design, Traditional Knowledge;**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Infringement and Offences of IPRs- Remedies and Penalties;**

May,20261st Week 1May – 2 May2026	**Basics of Plagiarism Policy of UGC.**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Ms. Monila Bansal
Class-M.Sc.(F) Sem-IV
Subject- Partial Differential equation
Paper- M24-MAT-401

3rdWeek 12Jan–17 Jan	PDE of kth order: Definition, examples and classifications. Initial value problems of Transport equations Homogeneous and non-homogeneous Transport equation
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Harmonic functions and their properties Fundamental solutions of Laplace's Equation Poisson's equation and its solution
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Mean value formula of Laplace's Equation Strong maximum principle Uniqueness theorem

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Local estimates for harmonic function** **Liouville's theorem**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Harnack's inequality** **Green's function and its derivation**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Representation formula using Green's function** **Symmetry of Green's function** **Green's function for a half space** **Green's function for a ball**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Energy methods** **uniqueness theorem** **Dirichlet's principle**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Heat Equation and its physical interpretation** **Fundamental solution of heat equation**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Integral of fundamental solution** **solution of initial value problem** **Duhamel's principle** **Non homogeneous heat equation**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Mean value formula for heat equation** **Strong maximum principle and uniqueness**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Energy methods**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Wave equation- Physical interpretation. Solution for one dimentional wave equation. D'Alemberts formula and its applications reflection method Solution by spherical means Euler-Poisson_Darboux equation**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Kirchhoff's formulas Poisson's formulas Solution of non–homogeneous wave equation for n=1,3 Energy method. Uniqueness of solution, finite propagation speed of wave equation.**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Non-linear first order PDE- complete integrals, envelopes Characteristics of (i) linear, (ii) quasilinera, (iii) fully non-linear first order partial differential equations Hamilton Jacobi equations**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Sessional exams**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Sessional E\exams**

May,20261st Week 1May – 2 May2026	**Method of separation of variables for Hamilton Jacobi equation,Laplace,heat and wave equation** **Similarity solutions (Plane and traveling waves, solitons, similarity under Scaling)** **Fourier Transform**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Laplace Transform** **Converting non linear into linear PDE** **Cole-Hop Transform, Potential functions, Hodograph and Legendre** **Lagrange and charpit method**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Ms. Monila Bansal
Class-M.Sc.(F) Sem-IV
Subject- Mechanics and Calculus of Variation
Paper- M24-MAT-402

3rdWeek 12Jan–17 Jan	**Moments and products of inertia, The theorems of parallel and perpendicular axes, Angular momentum of a rigid body about a fixed point and about fixed axes, Principal axes.**
18 Jan,2026	**Sunday**
4thWeek 19Jan–24 Jan	**Kinetic energy of a rigid body rotating about a fixed point, Momental ellipsoid – equimomental system, Coplanar distributions, General motion of a rigid body.**
23 Jan,2026 **25 Jan,2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ BasantPanchmi** **Sunday** **Republic Day**
5thWeek 27Jan–31 Jan	**Problems illustrating the laws of motion, Problems illustrating the law of conservation of angular momentum, Problems illustrating the law of conservation of energy, Problems illustrating impulsive motion**

February,2026 1stWeek 1Feb, 2026	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Euler's dynamical equations for the motion of a rigid body about a fixed point, Further properties of rigid motion under no forces, Some problems on general three-dimensional rigid body motion, The rotating earth**
8Feb, 2026	**Sunday**
2ndWeek 9Feb-14Feb	**Note on dynamical systems, Preliminary notions, Generalized coordinates and velocities, Virtual work and generalized forces, Derivation of Lagrange's equations for a holonomic system, Case of conservative forces, Generalized components of momentum and Impulses**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek 16Feb-21 Feb	**Lagrange's equations for impulsive forces, Kinetic energy as a quadratic function of velocities. Equilibrium configurations for conservative holonomic dynamical systems, Theory of small oscillations of conservative holonomic dynamical systems.**
22Feb,2026	**Sunday**
4thWeek 23Feb-28Feb	**Lagrange's equations for potential forces, Variational principles in Mechanics: Hamilton's principle,**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**The principle of least action. Hamiltonian and canonical equations of Hamilton. Basic integral invariant of Mechanics.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Canonical transformations, Hamilton Jacobi Equation**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Functional and its variation, Euler"s (Euler-Lagrange) equations, Variational problems for functionals depending on one independent and one dependent variable(s) and its (i) first derivative (ii) higher derivatives with fixed end conditions**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Energy methods**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Variational problems for functionals depending on n functions of a single independent variable and functional depending on a function and its n derivatives,**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Functionals dependent on functions of several independent variables. Variational problems in parametric form. Natural boundary conditions and transition conditions,**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Invariance of Euler"s equation. Conditional extremum. Variational problem with moving boundaries.**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Sessional exams**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Sessional exams**

May,20261st Week 1May – 2 May2026	**Some basic problems in calculus of variations: shortest distance, minimum surface of revolution, Brachistochrone problem, isoperimetric problem and geodesic problems**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Revision of the syllabus**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Ms. Monila Bansal
Class-M.Sc.(F) Sem-IV
Subject- Mathematical aspects of seismology
Paper- M24-MAT-406

3rd Week 12Jan–17 Jan	**General form of progressive waves, Harmonic waves, Plane waves, Wave equation. Principle of superposition, Stationary waves.** **.**
18 Jan,2026	**Sunday**
4th Week 19Jan–24 Jan	**Special types of solutions: Progressive and Stationary type solutions of wave equation in Cartesian cylindrical and spherical coordinate systems**
23 Jan,2026 **25 Jan,2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ BasantPanchmi** **Sunday** **Republic Day**
5th Week 27Jan–31 Jan	**D'Alembert's formula. Inhomogeneous wave equation. Group velocity Spherical waves. Expansion of a spherical wave into plane waves**

February,2026 1stWeek 1Feb, 2026	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Sommerfield"s integral. Kirchoff"s solution of the wave equation, Poissons"s formula, Helmholtz"s formula.**
8Feb, 2026	**Sunday**
2ndWeek 9Feb-14Feb	**The elastic wave equation for a homogeneous isotropic medium, Vector wave equation: Vector solutions, Vector Helmholtz equation**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek 16Feb-21 Feb	**Elastic wave equation without body forces, P-, SV-, and SH-wave displacements, Polarization of particle motion, Flux of energy in harmonic waves.**
22Feb,2026	**Sunday**
4thWeek 23Feb-28Feb	**Snell"s law of reflection and refraction. Ray parameter and slowness,**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**The principle of least action. Hamiltonian and canonical equations of Hamilton. Basic integral invariant of Mechanics.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Canonical transformations, Hamilton Jacobi Equation**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Reflection of plane P and SV waves at a free surface. Partition of reflected energy. Reflection at critical angles**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Test**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Reflection and reflection of plane P, SV and SH waves at an interface. Special cases of Liquid-Liquid interface, Liquid-Solid interface and Solid-Solid interface.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Surface waves: Rayleigh waves, Love waves and Stoneley waves,**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Two dimensional Lamb"s problems in an isotropic elastic solid: Area sources and Line Sources in an unlimited elastic solid. A normal force acts on the surface of a semi-infinite elastic solid, tangential forces acting on the surface of a semi-infinite elastic solid**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Sessional exams**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Sessional exams**

May,20261st Week 1May – 2 May2026	**Three dimensional Lamb"s problems in an isotropic elastic solid: Area sources and Point sources in an unlimited elastic solid, Area source and Point source on the surface of semi-infinite elastic solid**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Introduction to Seismology: Earthquakes, Causes of earthquakes; Elastic rebound theory, Location of earthquakes, Strength of earthquakes; Earthquake magnitude and intensity, Observation of earthquakes; Seismograms, Seismometers, Earthquake Focal Mechanisms, Energy released by earthquakes, Seismic waves as probes of Earth"s interior, Interior of the earth.**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester

(January to May, 2026)

Name of the Teacher – Manju Rani
Class – MSc (Maths), Sem.-IV
Subject – Boundary Value Problems
Paper – M24-MAT-410

3rd Week 12 Jan – 17 Jan	Applications to Ordinary Differential Equations; Initial value problems, Boundary Value Problems. Dirac Delta functions.
18 Jan, 2026	Sunday
4th Week 19 Jan – 2	Green's function approach to reduce boundary value problems of a self-adjoint differential equation with homogeneous boundary conditions to integral equation forms.
23 Jan, 2026 25 Jan, 2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5th Week 27 Jan – 31 Jan	Green's function for nth -order ordinary differential equation. Modified Green's function.

February, 2026 1st Week 1 Feb, 2026	**Guru Ravidas Jayanti , Sunday**
2 Feb – 7 Feb	**Applications to partial differential equations: Integral representation formulas for the solution of the Laplace and Poisson Equations, The Newtonian, single-layer and double-layer potentials.**
8 Feb, 2026	**Sunday**
2nd Week 9 Feb - 14	**Interior and Exterior Dirichlet problems, Interior and Exterior Neumann problem, Green's function for Laplace's equation in a free space as well as in a space bounded by a ground vessel, Integral equation formulation of boundary value problems for Laplace's equation.**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week 16 Feb - 21 Feb	**Poisson's Integral formula, Green's function for the space bounded by grounded two parallel plates or an infinite circular cylinder, The Helmholtz equation.**
22 Feb, 2026	**Sunday**
4th Week 23 Feb - 28 Feb	**Integral Transform methods: Introduction, Fourier transforms, Laplace transform, Convolution integral, application to Volterra integral equations with convolution-type Kernels.**

March, 2026 **1st Week** **1 March – 8 March**	**Holi Break**
2nd Week **9 March – 14 March**	**Hilbert transform, Applications to mixed boundary value problem, two-part boundary value problems.**
15 March, 2026	**Sunday**
3rd Week **16 March – 20 March**	**Three-part-Boundary Value Problems, Generalized Three-part Boundary. Value problems.**
21 March, 2026 **22 March, 2026** **23 March, 2026**	**Id- ul- Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4th Week **24 March – 28 March**	**Integral equation perturbation methods: Basic procedure, Applications to Electrostatics, Low-Reynolds-Number Hydrodynamics: Steady stokes Flow, Boundary effects on Stokes flow.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5th Week **30 March**	**Continued it.**
31 March, 2026	**Mahavir Jayanti**

April, 2026 **1st Week** **1 April – 4 April**	**Longitudinal oscillations of solids in stokes Flow, Steady rotary stokes flow, Rotary oscillations in stokes flow, Oseen flow-translation motion.**
5 April, 2026	**Sunday**
2nd Week **6 April - 11 April**	**Oseen flow-rotary motion elasticity, Boundary effects, Rotation, Torsion and Rotary oscillation problems in elasticity.**
12 April, 2026	**Sunday**
3rd Week **10 April - 18 April**	**Sessional Exams**
14 April, 2026 **19 April, 2026**	**Dr. B. R. Ambedkar Jayanti/Vaisakhi** **Parshuram Jayanti /Akshay Tirtiya , Sunday**
4th Week **20 April -25**	**Sessional Exams**
26 April, 2026	**Sunday**
5th Week **27 April - 30 April**	**Crack problems in elasticity, Theory of Diffraction.**

May, 2026 **1st Week** **1 May – 2 May 2026**	**Discussion on Student's problems.**
3 May, 2026	**Sunday**
2nd Week **4 May- 5 May**	**Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Dr. Deepika
Class- M. Sc. (Maths) Sem. - IV
Subject- Linear Programming
Paper: M24-MAT-413

3rdWeek 12Jan–17 Jan	Simultaneous linear equations, Basic solutions, Linear transformations, Point sets, Lines and hyperplanes, Convex sets, Convex sets and hyperplanes, Convex cones, Restatement of the LP problem.
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Slack and surplus variables, Preliminary remarks on the theory of the Simplex method, Reduction of any feasible solution to a basic feasible solution.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ Basant Panchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Definitions and notations regarding linear programming problems. Improving a basic feasible solution, Unbounded solutions, Optimality conditions, Alternative optima, Extreme points and basic feasible solutions.

February,2026 **1st Week** **1Feb, 2026**	**Guru Ravidas Jayanti, Sunday**
2Feb– 7Feb	**The Simplex method, Selection of the vector to enter the basis, Degeneracy and breaking ties, Further development of the transformation formulas, The initial basic feasible solution, artificial variables, Inconsistency and redundancy.**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Tableau format for simplex computations, Use of the tableau format, Conversion of a minimization problem to a maximization problem, Review of the Simplex method, Test.**
15 Feb, 2026	**Maha Shivratri , Sunday**
3rd Week **16Feb-21 Feb**	**The two-phase method for artificial variables, Phase I, Phase II, Numerical examples of the two-phase method, Requirements space, Solutions space.**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Determination of all optimal solutions, Unrestricted variables, Charnes' perturbation method regarding the resolution of the degeneracy problem. Selection of the vector to be removed.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Definition of b(€). Order of vectors in b(€), Use of perturbation technique with simplex tableau format, Geometrical interpretation of the perturbation method, The generalized linear programming problem.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**The generalized simplex method, Examples pertaining to degeneracy, An example of cycling.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id- ul- Fitr** **Sunday** **Shaheedi Diwas / Martyrdom day of Bhagat Singh/Rajguru & Sukhdev**
4thWeek **24March–28 March**	**Revised simplex method: Standard Form I, Computational procedure for Standard Form I, Revised simplex method: Standard Form II.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Computational procedure for Standard Form II, Initial identity matrix for Phase I, Comparison of the simplex and revised simplex methods, The product form of the inverse of a non-singular matrix.**
31March, 2026	**Mahavir Jayanti**

April,2026 1st Week 1April–4 April	**Alternative formulations of linear programming problems, Dual linear programming problems, Test.**
5April,2026	**Sunday**
2ndWeek 6 April-9April	**Fundamental properties of dual problems, Other formulations of dual problems, Complementary slackness, Unbounded solution in the primal, Dual simplex algorithm.**
12April,2026	**Sunday**
3rdWeek 10 April-18April	**Sessional Exams**
14April,2026 19April,2026	**Dr. B. R. Ambedkar Jayanti/Vaisakhi Parshuram Jayanti /Akshay Tirtiya, Sunday**
4thWeek 20April - 24 April	**Sessional Exams**
26April,2026	**Sunday**
5thWeek 25April - 30 April	**Alternative derivation of the dual simplex algorithm, Initial solution for dual simplex algorithm, The dual simplex algorithm; an example, geometric interpretations of the dual linear programming problem and the dual simplex algorithm.**

May,20261st Week 1May – 2 May2026	**Group Discussion, A primal dual algorithm, Examples of the primal-dual algorithm. Transportation problem, properties of matrix A, the Simplex method and transportation problem,**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Group Discussion, simplification resulting from all $y_{ij}^{\alpha\beta} = \pm 1$ or 0, the transportation problem tableau, bases in the transportation tableau, the stepping stone algorithm, an example.**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

NameoftheTeacher–Ms. ANITA
Class – M.Sc. (Maths) Final Year Sem iv
Subject–EMPLOYABILITY SKILLS IN MATHEMATICS
Paper–M24-MAT-416

3rdWeek 12Jan–17 Jan	Computation of Probability using R. Basics of Probability Distributions for Discrete Variables: Discrete Uniform Distribution in R
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Binomial Distribution in R, Poisson Distribution in R, Geometric Distribution in R.
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Basics of Probability Distributions for Continuous Random Variables: Normal Distribution in R,

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Bivariate Probability Distribution in R Software,**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Covariance and Correlation-Examples and R Software, Chi square Distribution, t-Distribution, F-Distribution,**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Distribution of Sample Mean, Convergence in Probability and Weak Law of Large Numbers.**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Consistency and Sufficiency of Estimators, Method of Moments,**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Method of Maximum Likelihood and Rao Blackwell Theorem,**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Basic Concepts of Confidence Interval Estimation,**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Confidence Interval for Mean in One Sample with Known Variance,**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Confidence Interval for Mean and Variance.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Basics of Tests of Hypothesis and Decision Rules,**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Test Procedures for One Sample Test for Mean with Known Variance,**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**One Sample Test for Mean with Unknown Variance,**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Test of Hypothesis for Variance in One and Two Samples.**

May,20261st Week 1May – 2 May2026	**Revision**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher–Dr. Shweta Dhawan
Class-B.Sc/B.A II Sem
Subject-Mathematics
Paper- Algebra and Number Theory

3rdWeek 12Jan–17 Jan	Intraction With students Discuss Programme outcomes and Course outcomes Matrices: Symmetric, Skew Symmetric , Hermitian and skew Hermitian matrices, Elementary operations on matrices, Rank of a matrix, Inverse of a matrix
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Elementary operations on matrices, Rank of a matrix, Inverse of a matrix…continued
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Elementary operations on matrices, Rank of a matrix, Inverse of a matrix…continued
February,2026 1stWeek 1Feb, 2026	Guru RavidasJayanti,Sunday
2Feb– 7Feb	Linear dependence and Independence of rows and columns of matrix, Row Rank and column rank of a matrix, Eigen values , Eigen vectors and characteristic equation of a matrix
8Feb, 2026	Sunday
2ndWeek 9Feb-14Feb	Eigen values , Eigen vectors and characteristic equation of a matrix..continued
15 Feb, 2026	MahaShivratri , Sunday

3rdWeek 16Feb-21 Feb	Minimal Polynomial of a matrix, Cayley-Hamilton theorem and its use in finding the inverse of a matrix
22Feb,2026	Sunday
4thWeek 23Feb-28Feb	Unitary and Orthogonal Matrices..
March,2026 1st Week 1March – 8 March	Holi Break
2ndWeek 9 March– 14 March	Unitary and Orthogonal Matrices..continued
15March, 2026	Sunday
3rdWeek 16March–20 March	Relations between the roots and coefficients of general polynomial equation in one variable, Solution of Polynomial equation having conditions on roots
21March, 2026 22March, 2026 23March, 2026	Id-ul-Fitr Sunday ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev
4thWeek 24March–28 March	Common roots and multiple roots , Transformation of equations
26 March, 2026 29 March, 2026	Ram Navmi Sunday
5thWeek 30 March	Common roots and multiple roots , Transformation of equations
31March, 2026	MahavirJayanti
April,2026 1st Week 1April–4 April	Nature of the roots of an equation, Descartes' rule of signs Solutions of Cubic equation(Cardon's Method), Biquadratic Equations and their solutions
5April,2026	Sunday

2nd Week 6 April-11April	Sessional Exams
12April,2026	Sunday
3rd Week 13 April-18April	Nature of the roots of an equation, Descartes' rule of signs Solutions of Cubic equation(Cardon's Method), Biquadratic Equations and their solutions
14April,2026 19April,2026	Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday
4th Week 20April - 25 April	Divisibility, Greatest common divisor(gcd), least common multiple(lcm), Prime numbers, Fundamental Theorem of arithmetic
26April,2026	Sunday
5th Week 27April - 30 April	Divisibility, Greatest common divisor(gcd), least common multiple(lcm), Prime numbers, Fundamental Theorem of arithmetic
May,20261st Week 1May – 2 May2026	Linear Congruences, fermat's theorem, Euler's theorem, Wilson's theorem and its converse, Chinese Remainder theorem, Linear Diophantine equation in two variables
3May,2026	Sunday
2nd Week 4May-5May	Linear Congruences, fermat's theorem, Euler's theorem, Wilson's theorem and its converse, Chinese Remainder theorem, Linear Diophantine equation in two variables
6 May, 2026 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for theEven Semester
(January to May, 2026)

Name of theTeacher–Ms. Silky Puri
Class – B.Sc./B.A. 4th Sem
Subject–Mathematics
Paper–Analytical geometry and Vector Calculus

3rdWeek 12Jan–17 Jan	**General equation of second degree:Classification of conic sections;centre,asymptotes,axes, eccentricity,foci and directrices of conics.Related examples.**
18 Jan,2026	**Sunday**
4thWeek 19Jan–24 Jan	**Tangent at any point to a conic,chord of contact,Pole of line to a conic.Discuss related examples.**
23 Jan,2026 **25 Jan,2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ BasantPanchmi** **Sunday** **Republic Day**
5thWeek 27Jan–31 Jan	**Director circle of a conic.polar equation of a conic,tangent and normal to a conic.Discuss related examples.**

February,2026 **1stWeek** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Confocal conics. Discuss related examples.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Sphere:general form,plane section of a sphere.sphere through a given circle .intersection of two spheres. Discuss related examples.**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Tangent plane and line ,polar plane and line,Orthogonal spheres,radical plane of two spheres and coaxal system of spheres. Discuss related examples.**
22Feb,2026	**Sunday**
4thWeek 23Feb-28Feb	**Cone:equation of cone,right circular cone,quadric cone,enveloping cone.Discuss related examples.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Tangent plane and condition of tangency. Discuss related examples.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Cylinder:Right circular cylinder and Enveloping cylinder.central conicoids. Discuss related examples.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Equation of tangent plane.Director sphere.normal to the conicoids. Discuss related examples.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Polar plane of a point.Enveloping cone of a conicoid. Discuss related examples.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Enveloping cylinder of a conicoid.Confocal conicoids. . Discuss related examples.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Reduction of second degree equations. Discuss related examples.Scalar product and vector product of three vectors.four vectors,Reciprocal vectors.Discuss related examples.**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Vector differentiation and derivative along a curve,Directional derivative. Discuss related examples.**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Gradient of a scalar point function ,divergence and curl of vector point functions.their geometrical meanings and vector identities. Discuss related examples.**

May,202 61st Week 1May – 2 May2026	**Vector integration:line integral,surface integral and volume integral. Discuss related examples.**

3May,2026	**Sunday**
2nd Week **4May-** **5May**	**Theorem of Gauss ,Green,Stoke and problem based on these.**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher–Dr. Shweta Dhawan
Class-B.Sc/B.A VI Sem
Subject-Mathematics
Paper- Elements of Numerical Analysis

3rdWeek 12Jan–17 Jan	Intraction With students Discuss Programme outcomes and Course outcomes Round –off error and computer arithmetic, local and global truncation errors, Algorithms and convergence
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Numerical methods for solving simultaneous linear equations:Bisection method,False position method, Fixed point iteration method, Newton –Raphson Method and Secant method
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Numerical methods for solving simultaneous linear equations:Bisection method, False position method, Fixed point iteration method, Newton –Raphson Method and Secant method..continued
February,2026 1stWeek 1Feb, 2026	Guru RavidasJayanti,Sunday
2Feb– 7Feb	Newtons iterative method for finding nth root of a number…
8Feb, 2026	Sunday
2ndWeek 9Feb-14Feb	Numerical methods for solving simultaneous linear equations: Gauss elimination method, Gauss –Jordan method, triangularization method (LU decomposition method), Crouts method, cholesky decomposition method..
15 Feb, 2026	MahaShivratri , Sunday

3rdWeek 16Feb-21 Feb	Numerical methods for solving simultaneous linear equations: Gauss elimination method, Gauss –Jordan method, triangularization method (LU decomposition method), Crouts method, cholesky decomposition method..continued
22Feb,2026	Sunday
4thWeek 23Feb-28Feb	Iterative method: Jacobi method, Gauss-Seidal Method, Relaxation Method.
March,2026 1st Week 1March – 8 March	Holi Break
2ndWeek 9 March– 14 March	Finite Difference operators and their relations, interpolation with equal intervals: Gregory –Newton forward and backward difference interpolations
15March, 2026	Sunday
3rdWeek 16March–20 March	Interpolation with unequal intervals: Newton's divided difference formulae, Lagrange's Interpolation Formulae
21March, 2026 22March, 2026 23March, 2026	Id-ul-Fitr Sunday ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev
4thWeek 24March–28 March	Central Difference : Gauss Forward and Gauss Backward Interpolation Formulae, Sterling Formula, Bessel's Formulae, Piecewise Linear interpolation , Cubic spline interpolation
26 March, 2026 29 March, 2026	Ram Navmi Sunday
5thWeek 30 March	Central Difference : Gauss Forward and Gauss Backward Interpolation Formulae, Sterling Formula, Bessel's Formulae, Piecewise Linear interpolation , Cubic spline interpolation
31March, 2026	MahavirJayanti
April,2026 1st Week 1April–4 April	Numerical Differentation :First and Second Derivative of a Function using interpolation formulae
5April,2026	Sunday

2nd Week 6 April-11April	Sessional Exams
12April,2026	Sunday
3rd Week 13 April-18April	Numerical Integration: Newton's Cote's Quadrature formula, Trapezoidal rule, Simpon's one third and three eight rule, Chebychev formula, Gauss Quadrature Formula
14April,2026 19April,2026	Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday
4th Week 20April - 25 April	Numerical Solution of Ordinary Differential Equations: Single Step Methods-Picard's method, Taylor's Series method, Euler's method, Runge-Kutta Method
26April,2026	Sunday
5th Week 27April - 30 April	Multiple Step method: Predictor Corrector Method, Modified Euler's method, Milne Simpson's method

May,20261st Week 1May – 2 May2026	Revision
3May,2026	Sunday
2nd Week 4May-5May	Revision
6 May, 2026 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher –Ms. Meenu Kalra
Class- B.com.-Ist(Sem-II)
Subject-Mathematics
Paper-B23-COM-204

3rdWeek 12Jan–17 Jan	Differentiation: Limit of a function,Derivative of a function,Rules of Differentiation, Differentiation of product of two functions,Differentiation of quotient of two functions. Questions
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Differentiation of logarithmic and exponential functions,Differentiation of implicit functions.Logarithmic Differentiation,Parametric functions,Derivatives of higher order. Questions
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Applications of derivatives: Local maxima and minima,First derivative test for local maxima and minima,Second derivative test for finding local maxima and minima, Absolute maxima and minima

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Practical problems on maxima and minima,Important functions related to commerce and economics**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Questions**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Problems** **Class test**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Definite IntegralApplications of integration in commerce and economics,Consumer and Producer's surplus** **Questions** **Class Discussion**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Class Discussion**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Permutations and combinations,Restricted Permutations, Combinations, Questions**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Practical problems on combinations** **Questions**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Binomial theoremGeneral term in a binomial expansion,Middle term in a binomial expansion, Questions**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Application of binomial theorem Questions**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Student problems & Discussion**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Linear programming : Corner point method,Iso-Profit Method**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Applications of linear programming in solving problems related to business and commerce.Simplex Method Questions**

May,2026 1st Week 1May – 2 May2026	**Applications of linear programming in solving problems related to business and commerce.** **Simplex Method** **Questions**
3May,2026	**Sunday**
2nd Week 4May-5May	**Sessional Exams** **Class test &Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher – Mrs. Meenu Kalra
Class- B.B.A.-I(SEM-II)
Subject- Mathematics
Paper:B23-B.B.A.-204

3rdWeek 12Jan–17 Jan	Average,Ratio and proportion Questions related to average Ratio Questions related to ratio
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Proportion: Questions related to proportion
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Percentage,Profit-Loss,Discount and commission Questions

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Discount** **Questions related to discount.** **Commission and brokerage** **Questions**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Simple and compound interest:** **Questions related to Simple interest & Compound interest** **Continuous compounding of interest** **Questions**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Problems on effective rate of interest,Depreciationand population** **Questions**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Annuities** **Questions** **Present value of an annuity** **Solution of practical problems related to annuities**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Present value and amount of annuity** **Questions**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Indices and logarithms** **Questions related to logarithms**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Logarithmic tables and anti-logarithmic**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Arithmetic Progression** **Nth term& Sum of nth term** **Questions**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Geometric progression Nth term and sum of nth term Questions Sum of a G. P. Upto infinity Questions**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Linear Programming: Graphical Methods(Corner point method and iso-profit method**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Sessional Exams**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Simplex method QUESTIONS**

May,20261st Week 1May – 2 May2026	**Problem Discussion**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Class Test & Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher –Ms. Meenu Kalra
Class-B.C.A.-I(SEM-II)
Subject-Mathematics
Paper- B23-CAP-204

3rdWeek 12Jan–17 Jan	Indefinite Integral:Questions related to indefinite integral Integration by substitution: Questions related to substitution Questions
18 Jan,2026	Sunday
4thWeek 19Jan–24 Jan	Integration by parts;Questions related to Integration;Partial fraction and their uses in integration Questions
23 Jan,2026 25 Jan,2026 26 Jan, 2026	Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day
5thWeek 27Jan–31 Jan	Some special integrals Questions related to integrati Class test & revision of integration

February,2026 **1st Week** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Presentation of data Frequency distribution & Questions related to frequency distribution Questions**
8Feb, 2026	**Sunday**
2nd Week **9Feb-14Feb**	**Diagrammatic and graphical presentation of data Bar diagrams,Pie chart,Histogram,Frequency polygon Questions**
15 Feb, 2026	**MahaShivratri , Sunday**
3rd Week **16Feb-21 Feb**	**Measures of central tendency Arithmetic Mean using different methods Questions Median :Questions related to median Problems related to mean and median**
22Feb,2026	**Sunday**
4th Week **23Feb-28Feb**	**Mode,Geometric Mean,Questions related to mode and geometric mean Harmonic mean Questions**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Measures of Dispersion;Mean deviation,Questions, Standard deviation** **Questions related to mean deviation &standard deviation**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Coefficient of variation,Questions related to variation Problems**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Correlation: Its types,degree of correlation** **Covariance and its calculation Questions**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Karl pearson's coefficient of correlation,** **Questions related to this coefficient**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Spearman's rank correlation Questions related to this correlation**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Regression: Lines of regression,Coefficient of regression, Angle between regression lines Questions related to Regression**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Student Problems**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Sessional Exams**

May,2026 1st Week 1May – 2 May2026	**Examples on Regression** **Student Problems**
3May,2026	**Sunday**
2nd Week 4May-5May	**Class Test &Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

Name of the Teacher–Ms. Silky Puri
Class – B.A. 2nd Sem
Subject–Mathematics
Paper–B23-MAT-204

3rdWeek 12Jan–17 Jan	**Matrices and determinants:definition of matrix,order,equality,types of matrices,operation on matrices:addition,multiplication on matrices.Discuss related examples.**
18 Jan,2026	**Sunday**
4thWeek 19Jan–24 Jan	**Multiplication with a scalar and their properties,minors,co-factors,determinant,properties of determinants. Discuss related examples.**
23 Jan,2026 **25 Jan,2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ BasantPanchmi** **Sunday** **Republic Day**
5thWeek 27Jan–31 Jan	**Applications of determinants in finding the area of a triangle.adjoint and inverse of a square matrix with related examples.**

February,2026 **1stWeek** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Solutions of simultaneous linear equations. . Discuss related examples.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Differentiation,Derivatives of simple functions,functions having applications in business and social studies. Discuss related examples.**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Maxima and minima of function and their applications to revenue,cost demand,production. Discuss related examples.**
22Feb,2026	**Sunday**
4thWeek **23Feb-28Feb**	**Profit functions and other functions related to commercial and social problems. Discuss related examples.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Integration of simple functions and its applications in commercial and economic problems. Discuss related examples.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Simple interest. Discuss related examples.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Compound interest. Discuss related examples.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Annuties:Types of annuities,present value and amount of an annuity. Discuss related examples.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Annuity(including the case of continuous compounding),valuation of simple loans and debentures. Discuss related examples.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Problems related to sinking funds,test for differentiation.linear programming:formulation of linear programming problems(LPP)Discuss related examples.**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Linear Programming:formulation of linear programming problems(LPP).LPP and their solution by graphical and Simplex methods. Discuss related examples.**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Applications of linear programming in solving social science and business problems. Discuss related examples.**

May,202 61st Week 1May – 2 May2026	**Class test and Revision.**
3May,2026	**Sunday**

2nd Week 4May-5May	**Class test and Revision.**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester
(January to May, 2026)

NameoftheTeacher–M s. ANITA
Class –B.Sc. 1st year(Non –Medical) 2 Sem
Subject– Numerical Ability Enhancement Skills
Paper–Paper-B23-SEC-225

3rdWeek 12Jan–17 Jan	**Real number system, Operation on numbers, Test for divisibility of natural numbers. Decimal, Fractions, Square roots, Cube roots with related Examples.**
18 Jan,2026	**Sunday**
4thWeek 19Jan–24 Jan	**Surds and Indices, Use of BODMAS in Examples.**
23 Jan,2026 25 Jan,2026 26 Jan, 2026	**Sir Chottu Ram Jayanti/ BasantPanchmi Sunday Republic Day**
5thWeek 27Jan–31 Jan	**HCF, LCM of integers, Ratio and proportion with related Examples.**

February,2026 **1stWeek** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Progression: Arithmetic Progression, Geometric Progression.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Harmonic Progressions with their simple and Basic Practical applications.**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Number series completion, percentage with Examples,**
22Feb,2026	**Sunday**
4thWeek **23Feb-28Feb**	**Profit Loss, Alligation or mixture with Examples, Average with Examples**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Average speed problems, Calendar with related Examples.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Logarithms. Area: Quadrilaterals. Parallelogram, Square with Examples.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Rectangle, Rhombus with related Examples**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Trapezium with Examples. Volume of Cube.**
31March, 2026	**MahavirJayanti**

April,2026 **1st Week** **1April–4 April**	**Surface area of Cube, Cuboid, Cylinder with Examples.**
5April,2026	**Sunday**
2ndWeek **6 April-11April**	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek **13 April-18April**	**Cone ,Sphere with related Examples**
14April,2026 **19April,2026**	**Dr. B.R.AmbedkarJayanti/Vaisakhi** **ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek **20April - 25 April**	**Revision**
26April,2026	**Sunday**
5thWeek **27April - 30 April**	**Revision**

May,20261st Week 1May – 2 May2026	**Revision**
3May,2026	**Sunday**
2ndWeek 4May-5May	**Revision**
6 May, 2026 Onwards	**University Examinations**

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Even Semester

(January to May, 2026)

Name of theTeacher–Ms.Silky puri
Class – B.Sc.IVth Sem
Subject–Elements of Mathematics in Everyday life
Paper–B23-VAC-418

3rdWeek 12Jan–17 Jan	**Simple interest,Compound interest,Discuss related examples.**
18 Jan,2026	**Sunday**
4thWeek 19Jan–24 Jan	**Equated monthly installment(EMI). Discuss related examples.**
23 Jan,2026 **25 Jan,2026** **26 Jan, 2026**	**Sir Chottu Ram Jayanti/ BasantPanchmi** **Sunday** **Republic Day**
5thWeek 27Jan–31 Jan	**Direct tax calculation. Discuss related examples.**

February,2026 **1stWeek** **1Feb, 2026**	**Guru RavidasJayanti,Sunday**
2Feb– 7Feb	**Profit and Loss.Time and Work. Discuss related examples.**
8Feb, 2026	**Sunday**
2ndWeek **9Feb-14Feb**	**Time and distance.Coding and Decoding. Discuss related examples.**
15 Feb, 2026	**MahaShivratri , Sunday**
3rdWeek **16Feb-21 Feb**	**Ratio and Proportion.Trignometry and its applications. Discuss related examples.**
22Feb,2026	**Sunday**
4thWeek **23Feb-28Feb**	**Mensuration for practical purposes. Discuss related examples.**

March,2026 **1st Week** **1March – 8 March**	**Holi Break**
2ndWeek **9 March– 14 March**	**Sequences and Series. Discuss related examples.**
15March, 2026	**Sunday**
3rdWeek **16March–20 March**	**Arithmetic Progression.Geometric progression. Discuss related examples.**
21March, 2026 **22March, 2026** **23March, 2026**	**Id-ul-Fitr** **Sunday** **ShaheediDiwas / Martyrdom day of Bhagat Singh/Rajguru&Sukhdev**
4thWeek **24March–28 March**	**Arithmetic Progression.Geometric progression. Discuss related examples.**
26 March, 2026 **29 March, 2026**	**Ram Navmi** **Sunday**
5thWeek **30 March**	**Permutations and Combinations. Discuss related examples.**
31March, 2026	**MahavirJayanti**

April,2026 1st Week 1April–4 April	**Mean,mode,Median. Discuss related examples.**
5April,2026	**Sunday**
2ndWeek 6 April-11April	**Sessional Exams**
12April,2026	**Sunday**
3rdWeek 13 April-18April	**Standard deviation,Variance .Discuss related examples.**
14April,2026 19April,2026	**Dr. B.R.AmbedkarJayanti/Vaisakhi ParshuramJayanti /AkshayTirtiya, Sunday**
4thWeek 20April - 25 April	**Bar graphs,Pie charts,Frequency polygons. Discuss related examples.**
26April,2026	**Sunday**
5thWeek 27April - 30 April	**Ogive. Discuss related examples.**

May,202 61st Week 1May – 2 May2026	**Linear equation in two variables. Discuss related examples.**

3May,2026	**Sunday**
2nd Week **4May-5May**	**Linear Programming problems(LPP).Graphical solution. Discuss related examples.**
6 May, 2026 Onwards	**University Examinations**