# SuccessClap

## Best Coaching for UPSC Mathematics

## Year Long Test Series for UPSC Mathematics CSE 2026

## Total 66 TESTS for Practice

### Why you need?

- To Follow Year Long Strict Schedule: Time Bound Preparation for UPSC CSE 2026
- Testing after learning
- Ideal Plan: Reasonable time frame for All topics to be learnt.
- Total 66 Tests:  Practicing at least 800 Questions

### Study Plan:

- Follow schedule
- Daily give 3-4 hours of learning the topic.
- Study from Standard Text Books: Book List given below
- Make short notes of each topic you learn
- Make note of one question of each model you learn
- Ch: means Chapter from Standard books, ie Krishna Series for ODE, PDE, Advanced Differential Equations, Fluid: Rai Singhania, Abstract Algebra: Group Theory and Ring Theory by R Kumar
- "Test "given in the column is the Year Long Test Series 2026 Programme. Checkout website for details.

### Exam Plan:

- Download Question paper from the portal and take test.
- Solutions will be activated on same day
- Regular Test: Time duration is 90minutes which has 10 questions to be solved
- Full Length Test is 3hrs and as per UPSC model
- Evaluation in 3 days
- After taking Test, Scan and Convert to pdf and send to successclap@gmail.com
- If you miss schedule, take Test any time.

### Test Schedule

| Test No | Date | Topic Covered |
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| | | **LINEAR ALGEBRA** |
| | | |
| 1 | Linear Algebra 1 | **Matrix:**<br>Matrix Basics, Det, Adj, Find Rank |

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| | 08-Aug-25 | Matrix-Reduction to Normal Form<br>Cayley Hamilton-Proof, Problems<br>Linear Eqns, Homogeneous, Find Dimension, Bases<br>Matrix Eigen Vectors, Theorems<br>Similarity of Matrix, Diagonalization<br>Quadratic Form |
| 2 | Linear Algebra 2<br>12-Aug-25 | **Vector Spaces, Subspaces ,Basis, Dimensions, Nullity**<br><br>**Linear Transformation:**<br>Given Linear Transformation, Find a) Rank, b) Nullity c) Range Space d) Null Space<br>Invertible, Inverse transformation<br><br>**Matrix LT**<br><br>Given Matrix Form of Linear Transformation, Find a) Rank, b) Nullity c) Range Space d) Null Space<br>Given Linear Transformation with Two Different Bases Sets, Find Matrix<br>Given Linear Transformation with Standard Basis. Find Matrix relative to New Basis Set |
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| | | **CALCULUS** |
| 3 | Calculus 1<br>21-Aug-25 | Limits, Continuity, Differentiability, Uniform Continuity<br>Indeterminants<br>Asymptotes<br>Max/Min Single variable and Application Problems<br>Max/Min two variable and Multiple variables, Lagrange multiplier<br>Max/Min Lagrange multiplier |
| 4 | Calculus 2<br>29-Aug-25 | Partial Differentiation, total differentiation<br>Euler Identities<br>Curve Tracing<br>Length of Arc,<br>Areas<br>Volumes,<br>Surfaces |
| 5 | Calculus 3<br>02-Sep-25 | Mean Value Theorem: Taylor/Maclaurin Expansion, generalised MVT, Rolle, Lagrange, Cauchy MVT, Function Increase decrease<br>Jacobians |
| 6 | Calculus 4<br>08-Sep-25 | Differentiation under Integral Sign<br>Definite Integral as Sum<br>Beta Gamma: Properties, Forms and Problems<br>Beta Gamma: Several Variables Formula and Applications<br>Multiple Integrals: Order Change, Evaluation |
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| | | **REAL ANALYSIS** |
| 7 | Real Analysis 1 | **Riemann Integrals**<br>Summation of Series |

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| | 15-Sep-25 | Theorems :<br>Continuous is integrable<br>Bounded and Finite Set of Discontinuity is integrable<br>Bounded and Discontinuity point has fixed limit point is integrable<br>Monotonic is integrable<br>Integral Inequality Eqn<br>First Mean Value Theorem<br>Generalised Mean Value Theorem<br>Second Mean Value Theorem<br><br>**Improper Integrals**<br>Limit Test<br>Cauchy Test<br>Absolute Convergence and conditional convergence<br>Abel Test<br>Dirichlet Test |
| 8 | Real Analysis 2<br>21-Sep-25 | **Functions of Several Variables**<br>Limit<br>Continuity<br>Differentiability<br>Maxima and Minima<br><br>**Sequence**<br>Bolzano-Weistress Theorem<br>Cauchy First Theorem on Limit<br>Cauchy second Theorem on Limit<br>Caseros Theorem<br>Cauchy sequence<br>Monotone Convergence Theorem |
| 9 | Real Analysis 3<br>28-Sep-25 | **Series**<br>Necessary Condition<br>Comparison Test<br>Comparison Test of Second Kind<br>D Alembert Ratio Test<br>Cauchy nTH Root Test<br>Raabe Test<br>Logarithmic Test<br>DE Morgan and Bertrand Test<br>Second Logarithmic Ratio Test<br>Kummer Test<br>Gauss Test<br>Cauchy Integral Test<br>Cauchy **Condensation Test**<br><br>**Uniform Convergence**<br>Cauchy Principle<br>Mn Test<br>Weir strass Test<br>Abel Test<br>Dirichlet Test<br>Properties on a) Sum b) Differentiability c) Integrability |

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| | | **VECTOR ANALYSIS** |
| 10 | Vector Analysis 1 06-Oct-25 | Differentiation of Vectors<br>Gradients, Divergence, Curl<br>Directional Derivative : Max/Min ,Angle made,<br>Vector Identities: Proofs -Curl (A XB), Div (A X ,Grad (A.B) ,Curl(curl A)<br>Invariance under Transformation<br><br>**Vector Integration**<br>Line Integral<br>Surface Integral<br>Volume Integrals |
| 11 | Vector Analysis 2 11-Oct-25 | Divergence Theorem<br>Stoke Theorem<br>Green Theorem<br>Work done. |
| 12 | Vector Analysis 3 15-Oct-25 | **Differential Geometry**: Derive **Serret Frennet** formula, Show curve lie in Plane, Find Curvature Vector, Problems on finding Radius of Curvature, Torsion |
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| | | **ODE** |
| 13 | ODE 1 22-Oct-25 | Formation of DE, Eqn of 1stOrder 1st degree - Ch 2.1 to 2.15<br>Integrating Factor - Ch 2.16 to 2.27<br>Geometry Application -Ch 2.28 ++<br>Trajectories - Ch 3<br>Eqn 1st Order but not 1dt degree - Ch 4.1 to 4.7 |
| 14 | ODE 2 28-Oct-25 | Clauruit - Ch 4.8 to 4.11<br>Singular Soln, Loci - Ch 4.12 ++<br>Linear DE with constant Coefficient - Ch 5.1 to 5.25<br>Cauchy Euler Eqns - Ch 6 |
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| 15 | ODE 3 02-Nov-25 | Method of Variation of parameter - Ch 7<br>Simultaneous Differential Eqns - Ch 8<br>Linear Eqn of Second Order - Ch 10<br>Linear Eqn of Second Order - Ch 10<br>Linear Eqn of Second Order - Ch 10 |
| 16 | ODE 4 05-Nov-25 | Laplace, Inverse Laplace<br>Laplace Application |
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| | | **PDE** |
| 17 | PDE 1 11-Nov-25 | Formation of PDE - Ch1<br>Linear PDE of Order 1 Lagrange Eqns - Ch 2:2.1 to 2.13<br>Surface Passing through Curve, Orthogonal - Ch 2.14 to 2.19<br>Linear PDE n independent variable - Ch 2.20 + |
| 18 | PDE 2 17-Nov-25 | "Non-Linear PDE ofOrder 1:<br>Simultaneous Eqns, Charpit - Ch 3.1 to 3.8"<br>Charpit - Ch 3.7 to 3.8 |

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| | | Special methods - Ch 3.9 to 3.18<br>Jacobians - Ch 3.19 to 3.22<br>Cauchy Strip problems - Ch 3.23 |
| 19 | PDE 3<br>26-Nov-25 | Homogeneous Linear PDE with Constant Coefficient - Ch 4<br>Non homogeneous Linear PDE with Constant Cooefficient Ch5<br>Cauchy Euler PDE - Ch 6<br>Geometry Application - Ch 7.10 ++<br>Canonical Method - Ch 8 |
| 20 | PDE 4<br>02-Dec-25 | **PDE Applications**<br>**Wave Eqn**<br>Initial Velocity is zero, Initial Displacement is Given<br>Initial Velocity is Given, Initial Displacement is Zero<br><br>**Heat Eqn**<br>a) Initial Temperature f(x) .Both Ends suddenly changed to Zero Temperature<br>b) Initial Tempearature (T1 , T2 ) , suddenly change to ( T3 , T4)<br>c)Initial Temperature f(x). Both Ends Insulated suddenly<br>d)At t=0 distribution is f(x). Suddenly One end is kept at T1 and other end Insulated<br><br>**Laplace Eqns**<br>a) Three sides Temperature is 0, Other side f(x)<br>b) Two sides Temperature is 0, One side f(x), Other side at Infinite Long<br>c)One side Insulated (X-Axis)<br>d)One Side Insulated (Opposite side of X-Axis)<br>e) Two sides Insulated , X-axis side f(x), Other side 0<br>f) Two sides Insulated, X-axis side 0, Other side f(x)<br>g) Three sides Insulated<br><br>**Laplace in Polar Coordinate Sysytem**<br>a) Semicircular Plate<br>b) Circular Arc<br>c) Circular Place<br>d) Circular Annulus |
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| | | **COMPLEX ANALYSIS** |
| 21 | Complex Analysis 1<br>09-Dec-25 | **Analytic Function:**<br>**Cauchy Riemann Equation**<br>Given Function and Given Point<br>a) Show it satisfy Cauchy Riemann eqn<br>b) Show Analytic or Non-Analytic<br>c) Show Existence of Derivative or Not<br>Given U or V as Harmonic Function, find its Conjugate and also Function<br><br>**Complex Integration: Cauchy Integrals, Zeroes, Singularity, Poles,** |
| 22 | Complex Analysis 2<br>16-Dec-25 | **Series Expansion**<br>Expand in Taylor Series<br>Expand in Laurent Series<br>**Power Series representation** |

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| | | Use Cauchy Residue Theorem, to Evaluate the Integral<br><br>**Rouche theorem**<br>**Contour Integrations** |
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| | | **LPP** |
| 23 | LPP 1<br>21-Dec-25 | Formulation of LPP<br>Graphical Method of Solution<br>Simplex Method |
| 24 | LPP 2<br>29-Dec-25 | **Simplex**: Big M Method, Phase 2 Method<br>Construct Dual and Solve<br><br>Transportation Problem<br>Assignment Problem<br>Travelling Salesman problem |
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| | | **NUMERICAL ANALYSIS** |
| 25 | Numerical Analysis 1<br>04-Jan-26 | **Obtain derivation**<br>(a)Quadrature Formula,<br>(b)Trapezoid Rule,<br>(c)Simpson 1/3,<br>(d) Simpson3/8. Rule and also<br>(e)derive their Error Formula for ALL RULES.<br><br>Gauss Quadrature Formula.<br>Derive formula for n=3,4,5<br>Derive Newton Gregory Forward interpolation formula, and its Error.<br><br>Derive Newton Gregory's Backward Interpolation formula and its Error<br><br>Lagrange Interpolation, Derivation of formula and derive its Error formula |
| 26 | Numerical Analysis 2<br>07-Jan-26 | **Solve ODE Problems**<br>a) Euler<br>b) Euler Modified<br>c)Runge Kutta Order 1, 4<br><br>**Newton Raphson Method**<br>**a) Derivation,**<br>**b) Find Condition for its convergence**<br>**c) Show rate of convergence is quadratic**<br>**d) Explain its merits and demerits**<br><br>**Bisection Method**<br>**Regula Falsi Method**<br>**Secant Method**<br>**Iteration Method and its Convergence**<br>**Solve Linear Eqns**<br>**a) Gauss Elimination**<br>**b) Gauss Jordan**<br>**c) Gauss Seidel**<br>**d) Gauss Jacobi** |

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| | | **Use Gauss Jordan to Find Inverse** |
| 27 | Numerical Analysis 3<br>11-Jan-26 | **Boolean Algebra**<br>Conversion -Decimal, Octagonal, Hexadecimal Solve Boolean Expression<br>CNF, DNF<br><br>**Algorithms and Flow Chart** |
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| | | **MECHANICS** |
| 28 | Mechanics 1<br>16-Jan-26 | Solving Problems on Lagrange Eqns<br><br>Solving Problems on Hamilton Eqns |
| 29 | Mechanics 2<br>19-Jan-26 | D Alembert Principal Problems<br><br>Moment of Inertia |
| 30 | Mechanics 3<br>23-Jan-26 | Fixed Axis Motions (Important questions Only)<br><br>Motion in 2Dimension (Important questions Only) |
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| | | **FLUID DYNAMICS** |
| 31 | Fluid Dynamics 1<br>30-Jan-26 | **Learn Basics**: Del, Div, curl in Cartesian, spherical, cylindrical, general coordinate system<br><br>Kinematics Ch 2<br>Equation of Motion of Inviscid Fluids Ch 3<br>Bernaouli Eqns Ch 4 |
| 32 | Fluid Dynamics 2<br>05-Feb-26 | Sources and Sink Ch 5<br>Irrotational Motion Ch 6<br>Motion of Cylinder Ch 7<br>Irrotational Motion in 3D Ch 10 |
| 33 | Fluid Dynamics 3<br>10-Feb-26 | Vortex Motion Ch 11<br>Navier Stoke Ch 14<br>Laminar Flow in Pipes Ch 16 |
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| | | **Analytic Geometry** |
| 34 | Geometry 1<br>20-Feb-26 | Basics: System of Coordinates, Directional Cosines Ch 1 2<br>Planes<br>Straight Lines<br>Shortest Distance<br>Skew Lines |
| 35 | Geometry 2<br>27-Feb-26 | Spheres<br>Cylinder<br>Cone |
| 36 | Geometry 3 | Conicoid |

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| | 04-Mar-26 | |
| 37 | Geometry 4<br>10-Mar-26 | Paraboloids<br>Generating Lines<br>Generating Lines<br>Reduction of General equation |
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| | | **Statics** |
| 38 | Statics<br>20-Mar-26 | Equilibrium of Rigid bodies<br>Virtual Work<br>Catenary<br>Stable Unstable Equilibrium<br>Friction |
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| | | **Dynamics** |
| 39 | Dynamics<br>31-Mar-26 | Rectilinear Motion<br>SHM<br>Projectile Motion<br>Central Forces, Kepler Law, Planetary Motion<br>Constrained Motion in Circle, Plane<br>Motion in Resisting Medium |
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| | | **Abstract Algebra** |
| 40 | Algebra 1<br>17-Feb-26 | Groups Ch 1 |
| 41 | Algebra 2<br>25-Feb-26 | Homomorphism and Permutation Ch 2<br>Sylow Theorem Ch 4 |
| 42 | Algebra 3<br>03-Mar-26 | Rings Ch1 |
| 43 | Algebra 4<br>08-Mar-26 | Homomorphism,Max , Prime Ideals PID Ch-2 |
| 44 | Algebra 5<br>13-Mar-26 | Euclidean and Polynomial Rings Ch-3 |
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| | | **FULL LENGTH TESTS** |
| | | |
| 34 | 14-Jun-26 | Full Length Test Paper 1 |
| 35 | 14-Jun-26 | Full Length Test Paper 2 |
| 36 | 21-Jun-26 | Full Length Test Paper 3 |
| 37 | 21-Jun-26 | Full Length Test Paper 4 |
| 38 | 28-Jun-26 | Full Length Test Paper 5 |
| 39 | 28-Jun-26 | Full Length Test Paper 6 |
| 40 | 5-July-26 | Full Length Test Paper 7 |
| 41 | 5-July-26 | Full Length Test Paper 8 |
| 42 | 12-July-26 | Full Length Test Paper 9 |

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| 43 | 12-July-26 | Full Length Test Paper 10 |
| 44 | 19-July-26 | Full Length Test Paper 11 |
| 45 | 19-July-26 | Full Length Test Paper 12 |

## Study Schedule for UPSC 2026

| Date | Test | Topic to Study | Days |
|---|---|---|---|
| | | | |
| | | **Linear Algebra** | |
| 01-Aug-25 | | Matrix Basics, Det, Adj, Find Rank | 1 |
| 02-Aug-25 | | Matrix-Reduction to Normal Form<br>Cayley Hamilton-Proof, Problems | 2 |
| 03-Aug-25 | | Linear Eqns, Homogeneous, Find Dimension, Bases | 3 |
| 04-Aug-25 | | Matrix Eigen Vectors, Theorems | 4 |
| 05-Aug-25 | | Similarity of Matrix, Diagonalisation | 5 |
| 06-Aug-25 | | Similarity of Matrix, Diagonalisation | 6 |
| 07-Aug-25 | | Quadratic Form | 7 |
| 08-Aug-25 | LA1 | Vector Spaces | 8 |
| 09-Aug-25 | | Linear Transformation<br>Find a) Rank, b) Nullity c) Range Space d) Null Space<br>Invertible, Inverse transformation | 9 |
| 10-Aug-25 | | Given Matrix Form of Linear Transformation, Find a) Rank, b) Nullity c) Range Space d) Null Space | 10 |
| 11-Aug-25 | | Linear Transformation: Given Linear Transformation with Two Different Bases Sets, Find Matrix<br>Given Linear Transformation with Standard Basis. Find Matrix relative to New Basis Set | 11 |
| 12-Aug-25 | LA2 | | 12 |
| | | | |
| | | **Calculus** | |
| 13-Aug-25 | | Limits, Continuity, Differentiability, Uniform Continuity | 1 |
| 14-Aug-25 | | Indeterminants | 2 |
| 15-Aug-25 | | Asymptotes | 3 |
| 16-Aug-25 | | Max/Min Single variable and Application Problems | 4 |
| 17-Aug-25 | | Max/Min Single variable and Application Problems | 5 |
| 18-Aug-25 | | Max/Min two variable and Multiple variables, Lagrange multiplier | 6 |
| 19-Aug-25 | | Max/Min Lagrange multiplier | 7 |
| 20-Aug-25 | | Max/Min Lagrange multiplier | 8 |
| 21-Aug-25 | CA1 | Partial Differentiation, total differentiation | 9 |
| 22-Aug-25 | | Euler Identities | 10 |
| 23-Aug-25 | | Curve Tracing | 11 |
| 24-Aug-25 | | Curve Tracing | 12 |
| 25-Aug-25 | | Length of Arc, Areas | 13 |
| 26-Aug-25 | | Length of Arc, Areas | 14 |

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| 27-Aug-25 | | Volumes, Surfaces | 15 |
| 28-Aug-25 | | Volumes, Surfaces | 16 |
| 29-Aug-25 | CA2 | Mean Value Theorem: Taylor/Maclaurin Expansion, generalised MVT, Rolle, Langrage, Cauchy MVT, Function Increase decrease | 17 |
| 30-Aug-25 | | Mean Value Theorem: Taylor/Maclaurin Expansion, generalised MVT, Rolle, Langrage, Cauchy MVT, Function Increase decrease | 18 |
| 31-Aug-25 | | Mean Value Theorem: Taylor/Maclaurin Expansion, generalised MVT, Rolle, Lagrange, Cauchy MVT, Function Increase decrease | 19 |
| 01-Sep-25 | | Jacobians | 20 |
| 02-Sep-25 | CA3 | Differentiation under Integral Sign | 21 |
| 03-Sep-25 | | Definite Integral as Sum | 22 |
| 04-Sep-25 | | Beta Gamma: Properties, Forms and Problems | 23 |
| 05-Sep-25 | | Beta Gamma: Properties, Forms and Problems | 24 |
| 06-Sep-25 | | Beta Gamma: Several Variables Formula and Applications | 25 |
| 07-Sep-25 | | Multiple Integrals: Order Change, Evaluation | 26 |
| 08-Sep-25 | CA4 | | 27 |
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| | | **Real Analysis** | |
| 09-Sep-25 | | Rieman Integrals | 1 |
| 10-Sep-25 | | Rieman Integrals | 2 |
| 11-Sep-25 | | Rieman Integrals | 3 |
| 12-Sep-25 | | Improper Integrals | 4 |
| 13-Sep-25 | | Improper Integrals | 5 |
| 14-Sep-25 | | Improper Integrals | 6 |
| 15-Sep-25 | RA1 | Functions of several variables: Limits, Continuity, Differentiability, Max/Min | 7 |
| 16-Sep-25 | | Functions of several variables: Limits, Continuity, Differentiability, Max/Min | 8 |
| 17-Sep-25 | | Functions of several variables: Limits, Continuity, Differentiability, Max/Min | 9 |
| 18-Sep-25 | | Sequence | 10 |
| 19-Sep-25 | | Sequence | 11 |
| 20-Sep-25 | | Sequence | 12 |
| 21-Sep-25 | RA2 | Series | 13 |
| 22-Sep-25 | | Series | 14 |
| 23-Sep-25 | | Series | 15 |
| 24-Sep-25 | | Uniform Convergence | 16 |
| 25-Sep-25 | | Uniform Convergence | 17 |
| 26-Sep-25 | | Uniform Convergence | 18 |
| 27-Sep-25 | | Uniform Convergence | 19 |
| 28-Sep-25 | RA3 | | 20 |
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| | | **Vector Analysis** | |
| 29-Sep-25 | | Vector Operators Basics | 1 |
| 30-Sep-25 | | Directional Derivatives | 2 |

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| 01-Oct-25 | | Identities Proofs | 3 |
| 02-Oct-25 | | Identities Proofs, Invariance | 4 |
| 03-Oct-25 | | Vector Integrations: Line, Surface Volume | 5 |
| 04-Oct-25 | | Vector Integrations: Line, Surface Volume | 6 |
| 05-Oct-25 | | Vector Integrations: Line, Surface Volume | 7 |
| 06-Oct-25 | VA1 | Divergence Theorem | 8 |
| 07-Oct-25 | | Stoke Theorem | 9 |
| 08-Oct-25 | | Green Theorem | 10 |
| 09-Oct-25 | | Work Done | 11 |
| 10-Oct-25 | | Practice Problems again | 12 |
| 11-Oct-25 | VA2 | Differential Geometry: Basic Definition, Serret Fernet formula | 13 |
| 12-Oct-25 | | Curvature Vector, Curve lie on Plane | 14 |
| 13-Oct-25 | | Radius of Curvature, Torsion | 15 |
| 14-Oct-25 | | Radius of Curvature, Torsion | 16 |
| 15-Oct-25 | VA3 | | 17 |
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| | | **ODE** | |
| 16-Oct-25 | | Formation of DE, Eqn of 1stOrder 1st degree - Ch 2.1 to 2.15 | 1 |
| 17-Oct-25 | | Integrating Factor - Ch 2.16 to 2.27 | 2 |
| 18-Oct-25 | | Geometry Application -Ch 2.28 ++ | 3 |
| 19-Oct-25 | | Trajectories - Ch 3 | 4 |
| 20-Oct-25 | | Eqn 1st Order but not 1dt degree - Ch 4.1 to 4.7 | 5 |
| 21-Oct-25 | | Eqn 1st Order but not 1dt degree - Ch 4.1 to 4.7 | 6 |
| 22-Oct-25 | ODE1 | Clauruit - Ch 4.8 to 4.11 | 7 |
| 23-Oct-25 | | Singular Soln, Loci - Ch 4.12 ++ | 8 |
| 24-Oct-25 | | Linear DE with constant Coefficient - Ch 5.1 to 5.25 | 9 |
| 25-Oct-25 | | Linear DE with constant Coefficient - Ch 5.1 to 5.25 | 10 |
| 26-Oct-25 | | Linear DE with constant Coefficient - Ch 5.1 to 5.25 | 11 |
| 27-Oct-25 | | Cauchy Euler Eqns - Ch 6 | 12 |
| 28-Oct-25 | ODE2 | Method of Variation of parameter - Ch 7 | 13 |
| 29-Oct-25 | | Simultaneous Differential Eqns - Ch 8 | 14 |
| 30-Oct-25 | | Linear Eqn of Second Order - Ch 10 | 15 |
| 31-Oct-25 | | Linear Eqn of Second Order - Ch 10 | 16 |
| 01-Nov-25 | | Linear Eqn of Second Order - Ch 10 | 17 |
| 02-Nov-25 | ODE3 | Laplace, Inverse Laplace | 18 |
| 03-Nov-25 | | Laplace, Inverse Laplace | 19 |
| 04-Nov-25 | | Laplace Application | 20 |
| 05-Nov-25 | ODE4 | | 21 |
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| | | **PDE** | |
| 06-Nov-25 | | Formation of PDE - Ch1 | 1 |
| 07-Nov-25 | | Linear PDE of Order 1 Lagrange Eqns - Ch 2:2.1 to 2.13 | 2 |
| 08-Nov-25 | | Linear PDE of Order 1 Lagrange Eqns - Ch 2:2.1 to 2.13 | 3 |
| 09-Nov-25 | | Surface Passing through Curve, Orthogonal - Ch 2.14 to 2.19 | 4 |
| 10-Nov-25 | | Linear PDE independent variable - Ch 2.20 + | 5 |
| 11-Nov-25 | PDE1 | Non-Linear PDE ofOrder 1:<br>Simultaneous Eqns, Charpit - Ch 3.1 to 3.8 | 6 |
| 12-Nov-25 | | Charpit - Ch 3.7 to 3.8 | 7 |

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| 13-Nov-25 | | Special methods - Ch 3.9 to 3.18 | 8 |
| 14-Nov-25 | | Special methods - Ch 3.9 to 3.18 | 9 |
| 15-Nov-25 | | Jacobians - Ch 3.19 to 3.22 | 10 |
| 16-Nov-25 | | Cauchy Strip problems - Ch 3.23 | 11 |
| 17-Nov-25 | PDE2 | Homogeneous Linear PDE with Constant Coefficient - Ch 4 | 12 |
| 18-Nov-25 | | Homogeneous Linear PDE with Constant Coefficient - Ch 4 | 13 |
| 19-Nov-25 | | Homogeneous Linear PDE with Constant Coefficient Ch 4 | 14 |
| 20-Nov-25 | | Non homogeneous Linear PDE with Constant Cooefficient Ch5 | 15 |
| 21-Nov-25 | | Non homogeneous Linear PDE with Constant Cooefficient Ch5 | 16 |
| 22-Nov-25 | | Cauchy Euler PDE - Ch 6 | 17 |
| 23-Nov-25 | | Cauchy Euler PDE - Ch 6 | 18 |
| 24-Nov-25 | | Geometry Application - Ch 7.10 ++<br>Canonical Method - Ch 8 | 19 |
| 25-Nov-25 | | Canonical Method - Ch 8 | 20 |
| 26-Nov-25 | PDE3 | PDE Application: Wave Eqns | 21 |
| 27-Nov-25 | | PDE Application: Heat Eqns | 22 |
| 28-Nov-25 | | PDE Application: Heat Eqns | 23 |
| 29-Nov-25 | | PDE Application: Laplace Eqns Cartisian and Polar | 24 |
| 30-Nov-25 | | PDE Application: Laplace Eqns Cartisian and Polar | 25 |
| 01-Dec-25 | | PDE Application: Laplace Eqns Cartisian and Polar | 26 |
| 02-Dec-25 | PDE4 | | 27 |
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| | | **Complex Analysis** | |
| 03-Dec-25 | | Analytic Function: Cauchy Riemann Equation, polar | 1 |
| 04-Dec-25 | | Analytic Function: Cauchy Riemann Equation, polar | 2 |
| 05-Dec-25 | | Complex Integration, Cauchy | 3 |
| 06-Dec-25 | | Complex Integration, Cauchy | 4 |
| 07-Dec-25 | | Zeroes, Singularity, Poles | 5 |
| 08-Dec-25 | | Zeroes, Singularity, Poles | 6 |
| 09-Dec-25 | CA1 | Series Expansion Taylor, Laurent | 7 |
| 10-Dec-25 | | Series Expansion Taylor, Laurent | 8 |
| 11-Dec-25 | | Rouche Theorem | 9 |
| 12-Dec-25 | | Contour Integration | 10 |
| 13-Dec-25 | | Contour Integration | 11 |
| 14-Dec-25 | | Contour Integration | 12 |
| 15-Dec-25 | | Power Series | 13 |
| 16-Dec-25 | CA2 | | 14 |
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| | | **LPP** | |
| 17-Dec-25 | | LPP Formulation | 1 |
| 18-Dec-25 | | Graphical Solution | 2 |
| 19-Dec-25 | | Simplex Method | 3 |
| 20-Dec-25 | | Simplex Method | 4 |
| 21-Dec-25 | LPP1 | Big M Method | 5 |
| 22-Dec-25 | | Phase 2 Method | 6 |
| 23-Dec-25 | | Dual and Solution | 7 |

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| 24-Dec-25 | | Transportation Problem | 8 |
| 25-Dec-25 | | Transportation Problem | 9 |
| 26-Dec-25 | | Assignment Problem | 10 |
| 27-Dec-25 | | Assignment Problem | 11 |
| 28-Dec-25 | | Travelling Salesman Problem | 12 |
| 29-Dec-25 | LPP2 | | 13 |
| | | | |
| | | **Numerical Analysis** | |
| 30-Dec-25 | | NA Integration: Quadrature Trapezoid Simpson 1/3, 3/8 | 1 |
| 31-Dec-25 | | NA Integration: Quadrature Trapezoid Simpson 1/3, 3/8<br>Gauss Quadrature Formula and problems | 2 |
| 01-Jan-26 | | Interpolation: Newton Gregory Forward and Backward, Lagrange | 3 |
| 02-Jan-26 | | Interpolation: Newton Gregory Forward and Backward, Lagrange | 4 |
| 03-Jan-26 | | Interpolation: Newton Gregory Forward and Backward, Lagrange | 5 |
| 04-Jan-26 | NA1 | NA OD Euler, Euler Modified, Rungakutta 1,4 orders<br>Solutions: Newton Raphson, Bisection, Regula Falsi | 6 |
| 05-Jan-26 | | Solutions: Secant Method, Iterations<br>Use Gauss Jordan to find Inverse | 7 |
| 06-Jan-26 | | Linear Solns: Gauss Elimination, Jordan, Seidal, jacobi | 8 |
| 07-Jan-26 | NA2 | Boolean Algebra | 9 |
| 08-Jan-26 | | Boolean Algebra | 10 |
| 09-Jan-26 | | Boolean Algebra | 11 |
| 10-Jan-26 | | Algorithms and Flow Chart | 12 |
| 11-Jan-26 | NA3 | | 13 |
| | | | |
| | | **Mechanics** | |
| 12-Jan-26 | | Problem Solving in Lagrange Eqns | 1 |
| 13-Jan-26 | | Problem Solving in Lagrange Eqns | 2 |
| 14-Jan-26 | | Problem Solving in Hamilton Eqns | 3 |
| 15-Jan-26 | | Problem Solving in Hamilton Eqns | 4 |
| 16-Jan-26 | Mec1 | D Alembert Principal | 5 |
| 17-Jan-26 | | Moment of Inertia | 6 |
| 18-Jan-26 | | Moment of Inertia | 7 |
| 19-Jan-26 | Mec2 | Fixed Axis Motions (Important Questions Only) | 8 |
| 20-Jan-26 | | Fixed Axis Motions (Important Questions Only) | 9 |
| 21-Jan-26 | | Motions in 2D (Important Questions Only) | 10 |
| 22-Jan-26 | | Motions in 2D (Important Questions Only) | 11 |
| 23-Jan-26 | Mec3 | | 12 |
| | | | |
| | | **Fluid Dynamics** | |
| 24-Jan-26 | | Learn Basic Operations in Cartesian, Cylindrical, Spherical Ch 1 | 1 |
| 25-Jan-26 | | Kinematics Ch 2 | 2 |
| 26-Jan-26 | | Kinematics Ch 2 | 3 |
| 27-Jan-26 | | Equation of Motion of Inviscid Fluids Ch 3 | 4 |

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|---|---|---|---|
| 28-Jan-26 | | Equation of Motion of Inviscid Fluids Ch 3 | 5 |
| 29-Jan-26 | | Bernoulli Eqns Ch 4 | 6 |
| 30-Jan-26 | FD1 | Sources and Sink Ch 5 | 7 |
| 31-Jan-26 | | Sources and Sink Ch 5 | 8 |
| 01-Feb-26 | | Irrotational Motion Ch 6 | 9 |
| 02-Feb-26 | | Motion of Cylinder Ch 7 | 10 |
| 03-Feb-26 | | Motion of Cylinder Ch 7 | 11 |
| 04-Feb-26 | | Irrotational Motion in 3D Ch 10 | 12 |
| 05-Feb-26 | FD2 | Vortex Motion Ch 11 | 13 |
| 06-Feb-26 | | Vortex Motion Ch 11 | 14 |
| 07-Feb-26 | | Navier Stoke Ch 14 | 15 |
| 08-Feb-26 | | Laminar Flow in Pipes Ch 16 | 16 |
| 09-Feb-26 | | Laminar Flow in Pipes Ch 16 | 17 |
| 10-Feb-26 | FD3 | | 18 |
| | | | |
| | | **Analytic Geometry** | |
| 11-Feb-26 | | Basics: System of Coordinates, Directional Cosines Ch 1 2 | 1 |
| 12-Feb-26 | | Planes | 2 |
| 13-Feb-26 | | Planes | 3 |
| 14-Feb-26 | | Straight Lines | 4 |
| 15-Feb-26 | | Straight Lines | 5 |
| 16-Feb-26 | | Shortest Distance | 6 |
| 17-Feb-26 | | Shortest Distance | 7 |
| 18-Feb-26 | | Skew Lines | 8 |
| 19-Feb-26 | | Skew Lines | 9 |
| 20-Feb-26 | Geo1 | Spheres | 10 |
| 21-Feb-26 | | Spheres | 11 |
| 22-Feb-26 | | Cylinder | 12 |
| 23-Feb-26 | | Cylinder | 13 |
| 24-Feb-26 | | Cone | 14 |
| 25-Feb-26 | | Cone | 15 |
| 26-Feb-26 | | Cone | 16 |
| 27-Feb-26 | Geo2 | Conicoid | 17 |
| 28-Feb-26 | | Conicoid | 18 |
| 01-Mar-26 | | Conicoid | 19 |
| 02-Mar-26 | | Conicoid | 20 |
| 03-Mar-26 | | Conicoid | 21 |
| 04-Mar-26 | Geo3 | Paraboloids | 22 |
| 05-Mar-26 | | Generating Lines | 23 |
| 06-Mar-26 | | Generating Lines | 24 |
| 07-Mar-26 | | Reduction of General equation | 25 |
| 08-Mar-26 | | Reduction of General equation | 26 |
| 09-Mar-26 | | Reduction of General equation | 27 |
| 10-Mar-26 | Geo4 | | 28 |
| | | | |
| | | **Note: Learn Abstract Algebra along with Statics and Dynamics : Schedule Given Below** | |
| | | | |
| | | **Statics** | |

| | | | |
|---|---|---|---|
| 11-Mar-26 | | Equilibrium of Rigid bodies | 1 |
| 12-Mar-26 | | Equilibrium of Rigid bodies | 2 |
| 13-Mar-26 | | Virtual Work | 3 |
| 14-Mar-26 | | Virtual Work | 4 |
| 15-Mar-26 | | Catenary | 5 |
| 16-Mar-26 | | Catenary | 6 |
| 17-Mar-26 | | Stable Unstable Equilibrium | 7 |
| 18-Mar-26 | | Stable Unstable Equilibrium | 8 |
| 19-Mar-26 | | Friction | 9 |
| 20-Mar-26 | Stat1 | Friction | 10 |
| | | | |
| | | **Dynamics** | |
| 21-Mar-26 | | Rectilinear Motion | 1 |
| 22-Mar-26 | | SHM | 2 |
| 23-Mar-26 | | Projectile Motion | 3 |
| 24-Mar-26 | | Central Forces, Kepler Law, Planetary Motion | 4 |
| 25-Mar-26 | | Central Forces, Kepler Law, Planetary Motion | 5 |
| 26-Mar-26 | | Central Forces, Kepler Law, Planetary Motion | 6 |
| 27-Mar-26 | | Central Forces, Kepler Law, Planetary Motion | 7 |
| 28-Mar-26 | | Constrained Motion in Circle, Plane | 8 |
| 29-Mar-26 | | Constrained Motion in Circle, Plane | 9 |
| 30-Mar-26 | | Motion in Resisting Medium | 10 |
| 31-Mar-26 | Dyn1 | Motion in Resisting Medium | 11 |
| | | | |
| | | | |
| | | **Abstract Algebra** | |
| 11-Feb-26 | | Groups Ch 1 | 1 |
| 12-Feb-26 | | Groups Ch 1 | 2 |
| 13-Feb-26 | | Groups Ch 1 | 3 |
| 14-Feb-26 | | Groups Ch 1 | 4 |
| 15-Feb-26 | | Groups Ch 1 | 5 |
| 16-Feb-26 | | Groups Ch 1 | 6 |
| 17-Feb-26 | AA1 | Homomorphism and Permutation Ch 2 | 7 |
| 18-Feb-26 | | Homomorphism and Permutation Ch 2 | 8 |
| 19-Feb-26 | | Homomorphism and Permutation Ch 2 | 9 |
| 20-Feb-26 | | Homomorphism and Permutation Ch 2 | 10 |
| 21-Feb-26 | | Homomorphism and Permutation Ch 2 | 11 |
| 22-Feb-26 | | Sylow Theorem Ch 4 | 12 |
| 23-Feb-26 | | Sylow Theorem Ch 4 | 13 |
| 24-Feb-26 | | Sylow Theorem Ch 4 | 14 |
| 25-Feb-26 | AA2 | Rings Ch1 | 15 |
| 26-Feb-26 | | Rings Ch1 | 16 |
| 27-Feb-26 | | Rings Ch1 | 17 |
| 28-Feb-26 | | Rings Ch1 | 18 |
| 01-Mar-26 | | Rings Ch1 | 19 |
| 02-Mar-26 | | Rings Ch1 | 20 |
| 03-Mar-26 | AA3 | Homomorphism,Max , Prime Ideals PID Ch-2 | 21 |
| 04-Mar-26 | | Homomorphism,Max , Prime Ideals PID Ch-2 | 22 |
| 05-Mar-26 | | Homomorphism,Max , Prime Ideals PID Ch-2 | 23 |

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| 06-Mar-26 | | Homomorphism,Max , Prime Ideals PID Ch-2 | 24 |
| 07-Mar-26 | | Homomorphism,Max , Prime Ideals PID Ch-2 | 25 |
| 08-Mar-26 | AA4 | Euclidean and Polynomial Rings Ch-3 | 26 |
| 09-Mar-26 | | Euclidean and Polynomial Rings Ch-3 | 27 |
| 10-Mar-26 | | Euclidean and Polynomial Rings Ch-3 | 28 |
| 11-Mar-26 | | Euclidean and Polynomial Rings Ch-3 | 29 |
| 12-Mar-26 | | Euclidean and Polynomial Rings Ch-3 | 30 |
| 13-Mar-26 | AA5 | | 31 |
| | | | |

## Books for UPSC Mathematics

| S.No | Topic | Books |
|---|---|---|
| 1 | Linear Algebra | 1) Matrices: Krishna Series<br>2) Any B.Sc Book sufficient for Linear Algebra<br>3) Schaum Series: Linear Algebra (Limited problems) |
| 2 | Calculus and Real Analysis | 1) Krishna Series: Differential Calculus<br>2) Krishna series: Advanced Differential Calculus<br>3) Krishna Series: Integral Calculus<br>4) Krishna Series: Advanced Integral Calulus<br>5) Real Analysis: S.Chand Rai Singhania |
| 3 | Analytic Geometry | 1) Krishna Series: 3D Geometry<br>2) Krishna Series: Analytic Solid Geometry |
| 4 | Vector Analysis | 1) Krishna Series: Vector Analysis<br>2) Schaum Series: Vector Analysis |
| 5 | ODE | 1) ODE: Rai Singhania |
| 6 | PDE | 1) ODE and PDE: Rai Singhania<br>2) Advanced Differential Equations: Rai Singhania |
| 7 | Complex Analysis | 1) Krishna Series: Complex Analysis |
| 8 | LPP | 1) Operation Research by Kanti Swarup |
| 9 | Mechanics | 1) Rigid Dynamics Vol 1: Krishna Series<br>2) Rigid Dynamics Vol 2: Krishna Series<br>3) Classical Mechanics by J. C Upadhyay |
| 10 | Fluid Dynamics | 1) Fluid Dynamics by Rai Singhania |
| 11 | Numerical analysis | 1) Any B.Sc Textbook covers all Topics<br>2) Numerical Analysis by Sastry<br>3) Numerical Analysis by Iyenger (Few Questions)<br>4) Flow Charts: Free Study Material by SuccessClap |
| 12 | Statics | 1) Krishna series; Statics |
| 13 | Dynamics | 1) Krishna Series: Dynamics |
| 14 | Abstract Algebra | 1) Group Theory: R Kumar<br>2) Ring Theory: R Kumar<br>3) University Algebra: Gopal Krishnan<br>4) Any B.Sc Book |
| 15 | Download Free Study material from SuccessClap Website<br>https://www.successclap.com/upsc-mathematics-study-material | |
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**NOTE:**

- The validity of Test Series is till UPSC Mains 2026 Exam.
- All Papers will be Evaluated before the validity.
- After UPSC Mains 2026 Exam, papers will not be evaluated.

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