



Study Schedule for UPSC Mathematics CSE 2026

Why you need?

- To Follow Year Long Strict Schedule: Time Bound Preparation for UPSC CSE 2026
- Ideal Plan: Reasonable time frame for All topics to be learnt.

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.

Study Schedule

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 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 Find a) Rank, b) Nullity c) Range Space d) Null Space 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 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
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, Langrage, 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
		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
		Vector Analysis	
29-Sep-25		Vector Operators Basics	1
30-Sep-25		Directional Derivatives	2
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
		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
		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 of Order 1: Simultaneous Eqns, Charpit - Ch 3.1 to 3.8	6
12-Nov-25		Charpit - Ch 3.7 to 3.8	7
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 Coefficient Ch5	15
21-Nov-25		Non homogeneous Linear PDE with Constant Coefficient 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 ++ 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 Cartesian and Polar	24
30-Nov-25		PDE Application: Laplace Eqns Cartesian and Polar	25
01-Dec-25		PDE Application: Laplace Eqns Cartesian and Polar	26
02-Dec-25	PDE4		27
		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
		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
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 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 Solutions: Newton Raphson, Bisection, Regula Falsi	6
05-Jan-26		Solutions: Secant Method, Iterations 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
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
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	Eucliden and Polynomial Rings Ch-3	26
09-Mar-26		Eucliden and Polynomial Rings Ch-3	27
10-Mar-26		Eucliden and Polynomial Rings Ch-3	28
11-Mar-26		Eucliden and Polynomial Rings Ch-3	29
12-Mar-26		Eucliden 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 2) Any B.Sc Book sufficient for Linear Algebra 3) Schaum Series: Linear Algebra (Limited problems)
2	Calculus and Real Analysis	1) Krishna Series: Differential Calculus 2) Krishna series: Advanced Differential Calculus 3) Krishna Series: Integral Calculus 4) Krishna Series: Advanced Integral Calulus 5) Real Analysis: S.Chand Raisinghania
3	Analytic Geometry	1) Krishna Series: 3D Geometry 2) Krishna Series: Analytic Solid Geometry
4	Vector Analysis	1) Krishna Series: Vector Analysis 2) Schaum Series: Vector Anaysis

5	ODE	1) ODE : Raisinghanian
6	PDE	1) ODE and PDE: Raisinghanian 2) Advanced Differential Equations: Raisinghanian
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 2) Rigid Dynamics Vol 2: Krishna Series 3) Classical Mechanics by J. C Upadhyay
10	Fluid Dynamics	1) Fluid Dynamics by Raisinghanian
11	Numerical analysis	1) Any B.Sc Textbook covers all Topics 2) Numerical Analysis by Sastry 3) Numerical Analysis by Iyenger (Few Questions) 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 2) Ring Theory: R Kumar 3) University Algebra: Gopal Krishnan 4) Any B.Sc Book
15	Download Free Study material from SuccessClap Website https://www.successclap.com/upsc-mathematics-study-material	

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