SYLLABUS BREAKUP (2025-26)
SUBJECT: MATHEMATICS
CLASS XI

FIRST CYCLE WRITTEN TEST: MAY 13, 2025
SECOND CYCLE WRITTEN TEST: AUGUST 04, 2025
HALF-YEARLY EXAM: SECOND WEEK OF SEPTEMBER, 2025 ONWARDS
SECOND WRITTEN TEST: DECEMBER 16, 2025
ANNUAL EXAM.: FEBRUARY 12, 2026 ONWARDS

APRIL &MAY

TOTAL NUMBER OF WORKING DAYS:	**29 Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**37 periods (app.)**
CHAPTER	**NO. OF PERIODS**
1. SETS	**[9]**
[a] Sets and their Representations	1
[b] Empty Set, Finite and Infinite Sets, Equal Sets	1
[c] Subsets, Power Sets, Universal Set	2
[d] Venn Diagram, Operation on Sets Complements of a set	2
[e] Practical problems on Union and Intersection of Two Sets	3
2. RELATIONS AND FUNCTIONS	**[11]**
[a] Cartesian product of Sets	1
[b] Relations	2
[c] Functions	2
[d] Domain & Range	2
[e] Types of functions	2
[f] Composition of Functions	2
3. TRIGONOMETRIC FUNCTIONS	**[17]**
[a] Measuring Angles in Radians and Degrees	2
[b] Signs of Trigonometric Functions	2
[c] Addition and Subtraction Formulae	2
[d] Conversion of sum & difference into product	2
[e] Conversion of product into sum and difference	3
[f] Identities related to multiple and Sub-multiple angles.	3
[g]General solution of trigonometric equations of the type sin y = sin a, cos y = cos a and tan y = tan a.	3

JULY

TOTAL NUMBER OF WORKING DAYS:	**22Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**27 periods (app.)**
4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS	**[9]**
[a] Definition of Complex Numbers	1
[b] Algebra of Complex Numbers and Problems	2
[c] Geometrical Representation of Complex Numbers	2
[d] Argand plane and Problems,Polar representation of complex numbers.	2
[e]Solution of quadratic equations (with real coefficients) in the complex number system.	2
5. LINEAR INEQUALITIES	**[7]**
[a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line.	4
[b] Graphical solution of linear inequalities and system in two variables.	3

6. PERMUTATION AND COMBINATION	**[11]**
[a] Fundamental Principle of Counting and Factorial Notation	2
[b] Permutations and Restricted Permutations	3
[c] Combination	3
[d] Problems involving Permutation & Combination both	3

AUGUST&SEPTEMBER

TOTAL NUMBER OF WORKING DAYS:	**29Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**35periods (app.)**
7. BINOMIAL THEOREM	**[7]**
[a] Binomial Theorem for Positive Integral Indices	2
[b] General and Middle Term	2
[c] Problem Discussions	3
8. SEQUENCES AND SERIES	**[10]**
[a] Arithmetic Progression	1
[b] Geometric Progression	4
[c] Relationship between A.M. and G.M.	2
[d] Sum of infinite G.P.	1
[e] Formulae for the special sums $\sum n$, $\sum n^2$, $\sum n^3$	2
9. STRAIGHT LINE	**[12]**
[a] Introduction	1
[b] Slope of Line	2
[c] Various forms of equation of a lineparallel to axis, point -slope form, Normal Slope-intercept form, two-point form, intercept form, Distance of a point from a line.	3
[d] General Equation of a line and angle between two lines	2
[e] Distance of a point from a line and Distance between parallel lines	2
[f] Problems	2
REVISION	**[6]**

OCTOBER

TOTAL NUMBER OF WORKING DAYS:	**19 Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**23periods (app.)**
10. CONIC SECTION	**[10]**
[a] Section of a Cone	1
[b] Circle	3
[c] Parabola	2
[d] Ellipse	2
[e] Hyperbola & Problems 2	
11. LIMITS &DERIVATIVES	**[13]**
[a] Introduction	1
[b] Limits	2
[c] Limits of Trigonometric Functions	2
[d] Problems	3
[e] Derivatives, Chain Rule	3
[f] Problems	2

NOVEMBER AND DECEMBER

TOTAL NUMBER OF WORKING DAYS:	**30Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**35 periods (app.)**
12. STATISTICS	**[12]**
[a] Measures of Dispersion	2
[b] Range Mean Deviation	3
[c] Variance and Standard Deviation	7
13. PROBABILITY	**[16]**
[a] Random Experiments	2
[b] Events and Types of Events	3
[c] Axiomatic Approach to Probability	3
[d] Problem Discussion	8
14. INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	**[7]**
[a] Co-ordinate Geometry and Planes in 3-D Space	1
[b] Co-ordinate of a point in Space	1
[c] Distance Formula	1
[d] Section Formula & Problems	4

JANUARY AND FEBRUARY

TOTAL NUMBER OF WORKING DAYS:	**24Days (app.)**
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	**30 periods (app.)**
15. PRINCIPLE OF MATHEMATICAL INDUCTION	**[6]**
REVISION	**[24]**