

**SYLLABUS BREAKUP (2026-27)**

**SUBJECT: MATHEMATICS**

**CLASS-XII**

**FIRST CYCLE TEST: MAY11, 2026**

**SECOND CYCLE TEST: JULY 27, 2026**

**REVISION TEST: OCTOBER & NOVEMBER**

**FIRST PRE- BOARD EXAM.: NOVEMBER 13, 2026 ONWARDS**

**SECOND PRE- BOARD EXAM.: DECEMBER 14, 2026 ONWARDS**

<b>MONTH</b>	<b>TOPICS</b>	<b>No. of Periods</b>
<b>APRIL</b> <b>NO. OF DAYS = 18</b>  No. of Periods <b>(app) = 24</b>	<b>MATRICES &amp; DETERMINANTS</b>	
	Introduction and Types of Matrices	2
	Operation on Matrices	2
	Transpose of a Matrix, Symmetric & Skew Symmetric Matrices.	2
	Determinants (Minors & Co- factors )	3
	Adjoint and inverse of a Matrix	2
	Problems on Determinants and Matrices	3
	Solving system of simultaneous equations using matrix	3
	<b>RELATIONS &amp; FUNCTIONS</b>	
	Revision of Domain and range of Relation	1
	Types of relations	2
	Equivalence Relation	3
	<b>MAY</b> <b>NO. OF DAYS = 19</b>  No. of Periods <b>(app) = 28</b>	<b>RELATIONS &amp; FUNCTIONS (CONTD.)</b>
Revision of Functions		<b>2</b>
Types of functions with problems		3
*Problem Discussion		2
<b>INVERSE TRIGONOMETRIC FUNCTIONS</b>		
Definition and Principal Values		3
Graphical representation		3
Problem Discussion		1
<b>CONTINUITY AND DIFFERENTIABILITY</b>		
Continuity		2
Differentiability		1
Differentiation by chain rule		2
Differentiation of implicit functions		1
Logarithmic Functions & Exponential Functions		1
Inverse Trigonometric Functions		3
Parametric Functions		2
Higher Derivatives		2
<b>JULY</b> <b>NO. OF DAYS = 22</b>  No. of Periods <b>(app) = 28</b>	<b>APPLICATION OF DERIVATIVES</b>	
	Rate of change	2
	Increasing and Decreasing Function	3
	Maxima & Minima	3
	Problem Discussion	1
	<b>INTEGRALS</b>	
	Introduction, formulae, Basic Direct Problem	1
	Integration by substitution	2
	Problem of $\int \tan x dx$ , $\int \sec x dx$ etc.	2

	Different types in Integration	3
	Integration by part	2
	Partial Fractions	2
	Properties of definite integral	2
	Problem Discussion	1
	<b>APPLICATION OF INTEGRATION</b>	
	Area under the curve	4
<b>AUGUST</b>	<b>DIFFERENTIAL EQUATIONS</b>	
<b>NO. OF DAYS = 19</b>	Definition, order and degree	2
	General and particular solution of a differential equation.	2
No. of Periods	Solution of differential equation by separation of variables	2
<b>(app) = 28</b>	Homogenous Differential equation	3
	Linear Differential Equations	3
	<b>VECTOR ALGEBRA</b>	2
	Definition and types of vectors	3
	Addition of vectors and their problems	3
	Scalar Product	3
	Vector Product	3
	<b>THREE DIMENSIONAL GEOMETRY</b>	
	Co-ordinate System in 3-D	2
<b>SEPTEMBER&amp;OCTOBER</b>	<b>THREE DIMENSIONAL GEOMETRY (contd.)</b>	
<b>NO. OF DAYS = 39</b>	Direction Ratios & Direction Cosines	2
	Cartesian equation and vector equation of a line	2
No. of Periods	Skew lines, shortest distance between two lines.	3
<b>(app) = 46</b>	Angle between two lines. Straight Line	2
	Problem Discussion	1
	<b>LINEAR PROGRAMMING</b>	
	Introduction, related terminology such as constraints, objective function, optimization, graphical method of solution for problems in two variables, feasible and infeasible regions (bounded or unbounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints)	4
	<b>PROBABILITY</b>	
	Conditional Probability	2
	Multiplication Theorem	2
	Total Probability	3
	Independent Events	2
	Baye's Theorem	3
	<b>REVISION</b>	20