

Teaching Plan 2026-27

Stream: Science Subject: Mathematics Subject Code: 40
 Standard: 11th Division: A.B.C Name of Faculty: Mrs. P.A.Kulkarni and Mrs. Vinita Chandrase

Sr.No	Name of Chapter	Topics/ content of chapter	Date of Commencing	Date of Completion
1	Angle and its Measurement	Need & concept, Revision of directed angle. System of measurement of Angles. Relation between degree measure and radian Measure Length of an arc and area of sector	21/7/2026 22,23/7/2026 24,27/7/2026 28,29/7/2026	
2	Trigonometry-I	Introduction, trigonometric functions of sum and difference Trigonometric functions of multiple angles Trigonometric functions of half angles	30/7/2026 3,4,5,6/8/2026 7,8,10,11/8/2026	
3	Trigonometry-II	Introduction, Formulae for conversion of sum or difference into products Formulae for conversion of product into sum or difference Trigonometric functions of angles of triangle	12,13,14/8/2026 17,18,19,20/8/2026 21,22,24/8/2026	
4	Complex Numbers	Introduction to complex number, Algebra of complex numbers Power of i and square root of a complex number De Moivre's theorem, properties of modulus, argument and conjugate of a complex number and their geometrical meanings Argand plane, Polar form of a complex Cube roots of unity	25,26/8/2026 27,29,31/8/2026 1,2,3,4/9/2026 7,8,9/9/2026 10,11,12/9/2026	
5	Determinants and Matrices	Definition, Minor and cofactor properties of determinants Consistency of equations Area of triangle using determinants Types of Matrices	15,16,17/9/2026 21,22/9/2026 23,24/9/2026 1,5,6/10/2026 7,8,9/10/2026	
6	Sequences & Series	Algebraic operations on Matrices Introduction to A.P and its properties Geometric Progression and its properties Sum of first n terms and infinite terms of a G.P Arithmetic- Geometric progression Some special series	10,12,13/10/2026 14,15,16,10/2026 19,21/10/2026 22,23,24/10/2026 26,27,28,29/10/2026	
7	Sets and Relations	Introduction, Types of sets, Operations on sets Relations and its types.	23,25/11/2026 26,27/11/2026 28,30/11/2026	
8	Functions	Types of Functions Algebra of Functions	1,2/12/2026 3,4/12/2026	
9	Limits	The limit of a function, Algebra of Function Factorization method, Rationalization method Limits Direct method. Limits of type Functions and by substitution	7,8/12/2026 9,10/12/2026 11,14/12/2026 15,16,17/12/2026	
10	Continuity	Define and study the continuity of a function at a point and in an interval	18,19,21,22/12/2026	
11	Straight Line	Inclination and slope of a line Different forms of a straight line General form of a straight line Angle between two lines and condition for concurrency Distance of a point from a line, Dist between two lines, Family of lines	23,24,26/12/2026 1,2/1/2027 4,5,6/1/2027 7,8/1/2027 11,12/1/2027	
12	Circle	Different forms of equation of circle General equation of a circle Parametric form of a circle, Equation of tangent in various forms	13,14/1/2027 15,18/1/2027 19,20/1/2027	
13	Conic Section	Ellipse Hyperbola Parabola	21/1/2027 22/1/2027 23/1/2027	
14	Probability	Definition and axiomatic approach of probability Multiplication theorem, Independent events Baye's Theorem	25/1/2027 27/1/2027 28/1/2027	
15	Differentiation	Definition and geometrical meaning of Derivative of some standard functions. Derivative of product and quotient of two functions	29,30/1/2027 1,2/2/2027 3,4/2/2027	
16	Measures of Dispersion	Range, Variance, Std. Deviation Std. Deviation For various data Std. Deviation For Combined data, Coefficient of variation	5,8,9/2/2027 10,11/2/2027 12,13/2/2027	
17	Permutations & combinations	Factorial Notation. Fundamental principle of counting. Permutations in different cases. Circular Permutations. Combination and its properties.	15,16/2/2027 17,18/2/2027 22,23/2/2027 24,25,26/2/2027 27/2/2027	
18	Methods of Induction and Binomial Theorem	Binomial theorem for +ve integral index. General and middle term. Binomial theorem for any index. Binomial coefficients.	1,2/3/2027 3/3/2027 4/3/2027 5/3/2027	