

	<p>Pimpri Chinchwad Education Trust's S.B.Patil College Of Science and Commerce Sr. no. 110, Gate No 1, Ravet, Pune- 412101 www.sbpatilcollege.com, email-sbp.science@gmail.com UDISE NO: 27252001412 College Index No : J.11.16.066</p>	
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TEACHING PLAN (TP)

Stream: Science

Subject: Mathematics

Subject Code: 40

Standard: 11th

Division: A and C

Name of faculty : /Mr.Bittu kumar

Sr.No	Name of Chapter	Topics/ content of chapter	Date of Commencing	Date of Completion	Media/Teaching Aid/ Teaching Method
1	Measurement of Angles	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	12/9/2022 13/9/2022 14/9/2022 15,16/9/2022		White board , marker
2	Trigonometric Function	Interralation between Tri. Functios and Signs of Tri functions in different qudrants Trigonometric functions of particular angles. Domain and range of trigonometric functions.	19/9/2022 20/9/2022 21,22,23/9/2022 24,27,28/9/2022		White board , marker
3	Trigonometric functions of compound angles and	Introduction, trigonometric functions of sum and difference.	29/9/2022		White board , marker

	Factorization Formulae	Trigonometric functions of multiple angles. Trigonometric functions of half angles.	30/9/2022 3/10/2022		
		Introduction, Formulae for conversion of Formulae for conversion of product into sum Trigonometric functions of angles of a triangle.	4/10/2022 6/10/2022 7/10/2022		White board , marker
4	Complex Numbers	Introduction to complex number, Algebra of Power of iota and square root of a complex Demoivre's theorem , properties of Argand plane,Polar form of a complex Cube roots of unity.	8/10/2022 10,12/10/2022 13,14/10/2022 17/10/2022 18,19/10/2022		White board , marker
5	Sequences & Series	Intoduction to A.P and its properties. Geometric Progression and its properties. Sum of first n terms and infinite terms of a Aritmetico -Geometric progression. Some special series	31/11/2022 1,2/11/2022 3/11/2022 4/11/2022 7/11/2022		White board , marker
6	Permutations & combinations	Factorial Notation. Fundamental principle of counting. Permutations in diffirent cases. Circular Permutations. Combination and its properties.	8/11/2022 9/11/2022 10/11/2022 11/11/2022 12/11/2022		White board , marker
7	Determinants	Definition,minor and cofactor . Properties of determinants Consistency of equations	14/11/2022 15/11/2022 16,17/11/2022		White board , marker
8	Matrices	Definition and types of matrices	18/11/2022		White board ,

		Operations on matrices . Product of matrices and their properties Transpose of a matrix and their properties	29/11/2022 30/11/2022 1,2/12/2022		marker
9	Mathematical Induction	Understand the method of induction and apply it to verify mathematical statements	5,6/12/2022		
10	Binomial Theorem	Expand binomial expressions and find its Simplify the binomial expressions or fractional Power	7,8/12/2022 9/12/2022 10/12/2022		White board , marker
11	Locus (5-M1)	Definition and equation of Locus Point of Locus Shift of origin	12/12/2022 13/12/2022 14/12/2022		White board , marker
12	Straight Line	Inclination and slope of a line Diffirent forms of a straight line General form of a straight line Angle between two lines and condition for Distance of a point from a line,Dist between	15/12/2022 16/12/2022 19,20/12/2022 21/12/2022 22,23/12/2022		White board , marker
13	Circle and Conics	Definition and Diffirent forms of Circle. General and Parametric equation of circle. Definition of conic section and parabola. Ellipse Hyperbola Parabola	24/12/2022 26/12/2022 27,28/12/2022 29,30/12/2022 31/12/2022 2,3,4/1/2023		White board , marker

14	Statistics (10-M2)	Introduction, Range and its Properties of mean deviation, Variance and Coefficient of variation.	5,6/1/2023 9,10,11/1/2023 16/1/2023		White board , marker
15	Probability	Definition and axiomatic approach of Multiplication theorem, independent events. Baye's Theorem.	17/1/2023 19,20/1/2023 23,24,25/1/2023		White board , marker
16	Sets and Relations	Introduction, types of sets, operations sets Relations and its types.	27,28,30/1/2023 13,14/2/2023		
17	Function	work with function defined on different domains. Identify different types of functions Carry out algebraic operations on functions	15,16/2/2023 17,20/2/2023 21,22/2/2023		White board , marker
18	Limits	The limit of a function, Algebra of Function Factorization method, Rationalization method Limits Direct method. Limits of trigo. Functions and by substitution.	23,24/2/2023 25/2/2023 27/2/2023 28/2/2023		White board , marker
19	Continuity	define and study the continuity of a function	1,2,6,7,8/3/2022		White board , marker
19	Differentiation	Understand and study the differentiability of	9,10,13/3/2023		White board , marker
		understand and study differentiation of various functions	14,15/3/2023 16,17/3/2023		

Mr.Bittu kumar

Mrs.Kalyani Bhondve

Mr.S.N Patil

Subject teacher

Academic Co-ordinator

Principal