

Pimpri Chinchwad Education Trust's S.B.Patil College Of Science and Commerce

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UDISE NO: 27252001412

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ACA/DI/15	Teaching Plan (TP)	Academic Year : 2025-26
Rev :00		

stream : Science Division: A,B,C division Faculty Name :- Mrs .Kulkarni Pradnya ,
Std :- 12 th Subject - Mathematics and Mrs. Mayura Patel

Subject Code - 40

Sr.No.	Lession Name	Name of the Topic	Planned date of commencing	Planned date of complition	
		1.Statement ,Truth value of Statement ,	2/4/2025	Completed	
		Logical connectives ,simple and compound statement Ex-1.1	3/4/2025	Completed	
		2. Statement pattern, logical equivalence ,Tautology, Contradiction ,Contingency Ex-1.2	4,7,8/4/2025	Completed	
1	Logic	3. Quantifiers, Quantified statement , Duals,	9,10,11/4/2025	Completed	
	G	Negation of compound statement, converse inverse and contrapositive	12,15/4/2025		
		Of implication. Ex-1.3		Completed	
		4.Algebra of statement Ex-1.4	16,17,21/4/2025	Completed	
		5. Application of logic to switching circuit.Ex-1.5	22,23,24/4/2025	Completed	
		1.Elementary Transformation , Inverse of matrix Ex- 2.1	26,28/4/2025	Completed	
		a) Inverse of a nonsingular matrix by elementary transformation	29/4/2024 & 2/5/25	Completed	
2	Matrices	b)Inverse of a square matrix by adjoint method Ex-2.2	5/5/2025	Completed	

		2. Application of matrices	6/5/2025	Completed
		a) Method of inversion		Completed
		b) Method of Reduction Ex-2 .3	7/5/2025	
		1.Convex Set Ex-7.1	8/5/2025	Complted
2	I in a Durantina	2. Graphical Solution Ex-7.2		
3	Linear Programming	3. Meaning of LPP, Formulation Ex – 7.3	9,10/5/2025	
		4.Solution of LPP ,Corner point method Ex-7.4		
		1.Derivative of composite functionEx-1.1	2,3,4,5/6/2025	
		2.Derivative of Inverse function Ex-1.2	6,9/6/2025	
		3.Logarithmic Function ,Derivative of Implicit Function Ex – 1.3	10,11,12/6/25	
4 Deriva	Derivative	4.Derivative of Parametric Function and derivative of one function with respect to another With respect to other $\mathrm{Ex}-1.4$	13,14,16,17,18/6/25	
		5. Higher order Derivative Ex-1.5	19,20,23/6/25	
		1.Application of derivative in geometry, Derivative of rate measure, velocity,Accn and Jerk .Ex-2.1	24,25,26/6/25	
5 Application of	Application of Derivative	2.Approximation Ex-2.2	27,28/6/25	
		3. Rolle's Theorem and LMVT Ex – 2.3	30/6/25 and 1/7/2025	
		4. Increasing and decreasing function, Maxima and Minima. Ex – 2.4	2,3,4/7/25	
		1.Solution of Trigonometric function, Principal solution, General soln.Ex-3.1	7,8,9/7/25	
		2.Solution of triangle	10,11/7/25	
6		Sine rule, cosine rule, projection rule	12,14,21/7/25	
	Trigonometric function	Half angle formula ,Napier's Analogy Ex -3.2		
		3. Inverse tri. Function, Principal value of Inve. Tri. Function. Ex – 3.3	22,23,24,25,26/7/25	
		1.Combined equation of pair of lines ,	28,29,30,31/7/25	
		Homogeneous equation of degree 2 Ex-4.1	-, -, -, -, -, -, -,	

7	Pair of straight line	2. Angle between lines represented by ax ² +2hxy	1,4/8/2025	
		3. General second Degree Equation in x and y	5,6,7,8/8/2025	
		Ex-4.3		
		1.Elementary integration formulae,	1,4,5/8/25	
		Rules or theorem of integration Ex-3.1		
		2. Methods of Integration	6,7,8,9/8/25	
•	T 100 1 T 1	Substitution $Ex - 3.2$ (A)		
8	Indefinite Integration	3.Some special Integral Ex-3.2 (B)	11,12,13,14/8/25	
		4.Different Types of integral Ex-3.2 (c)	18,19,20/8/25	
		5.Integration by parts Ex- 3.3	21,22,23/8/25	
		6.Integration by partial fraction Ex-3.4	25,26,28/8/25	
_		1.Fundamental theorem of integral calculus	29,30/8/25	
9	Definite Integration	2. Properties of definite integral with proof.Ex -4.2	2,3,4/9/2025	
		1.Area under the curve Ex-5.1	8,13/9/25	
10	Application of definite integral			
11	Probability Distribution	1.Random Variable, Types of random variable a) Discrete b) Continuous, Probability Distribution of discrete Randon Variable, Prbability mass Function, cumulative distribution function, Expected value and variance of a random variable Ex- 7.1	15,16,17/9/25	
		2. Probability Distribution of continuous random variable, Probability density function, cumulative Distribution function. Ex-7.2	18,19,23/9/25	
		1.Bernoulli Trial, Binomial distribution	24,25/9/25	
12	Binomial Distribution	2. Mean and variance of Binomial Distribution	26,27/9/25	
12	Binomial Distribution	Ex-8.1		
		1.Defn. of differential Equation , order and Degree of Differential equation Ex-6.1	29,30/9/2025	
		2. Formation of Differential equation Ex-6.2	1,3/10/2025	

		3. Solution of differential equation Ex-6.3	6,7,8,9/10/25	
		4. Homogeneous Differential equation Ex-6.4	3,4/11/25	
13	Differential Equation	5. Linear Differential Eqn Ex-6.5	6,7,8,10/11/25	
13	Differential Equation	6.Application of differential equation 11,12,13,14/11/25		
		a) Population Growth and growth of bacteria		
		b) Radio active decay		
		c) Newton's Law of cooling,		
		Surface Area Ex-6.5		
		1.Representation of Vector , Magnitude of	17,18,19/11/25	
		Vector, Types of Vector, Algebra of Vector,	, , , , ,	
		Vector in 2D, Three dimensional co-ordinate system, component of vector ,position vector of a point in a space Ex-5.1		
14	Vectors	2. Section Formula ,midpoint formula ,theorems, Ex-5.2	20,21,22/11/25	
	Vectors	3. Product of Vectors, Angle between two vectors, projection ,Direction angles and Direction cosines Ex-5.3	24,25,26,27/11/25	
		4. Vector Product of two vectors Ex-5.4	28,29/11/25	
		5. Scalar Triple product ,vector Triple Product Ex-5.5	1,2,3,4,5/12/25	
15	Line and Plane	1. Vector and Cartesian equation of a line ,equation of a line passing through a given point and parallel to given vector ,equation of a line passing through given two point Ex-6.1	8,9,10,11/12/25	
		2. Distance of a point from a line, Distance between skew lines, Distance between parallel lines Ex-6.2	12,15,16,17/12/25	
	Revision	Revision of All Chapters	18,19,,22,23,24/12/25	

Mathematics Department Mrs. Pradnya Kulkarni Mrs. Mayura Patel

Mrs. Kalyani Bhondve Science Co-ordinator

	4. Equations of Plane, Equation of plane passing through a point and perpendicular to a vector, Cartesian form Ex-6.3
	5. Angle between planes Ex-6.4
Revision	Logic,Matrices, Derivative ,Trigonometric Function

Mrs .Pradnya Kulkarni & Mr. Bittu Kumar

Mrs. Kalyani Bhondve

Principal

10,11,12/12/24	Marker
14,16/12/24	
17,18,19,20,23/12/24	

8/5/2025

3,4/10/24