



Std :- 12 th
stream : Science

Subject - Mathematics
Division: A,B,C division

Subject Code - 40
Faculty Name :- Mrs .Kulkarni Pradnya
Mrs.Mayura Patel, Mrs.Vinita Chandratre

ACA/DI/15	Teaching Plan (TP)	Academic Year : 2026-27
Rev :00		

Sr.No.	Lesson No.	Name Of The Topic	Planned date of commencing	Planned date of completion
1	Logic	1.Statement , Truth value of Statement ,	6/4/2026	Completed
		Logical connectives ,simple and compound statement Ex-1.1	4/4/2026	Completed
		2. Statement pattern, logical equivalence ,Tautology, Contradiction ,Contingency Ex-1.2	8,9/4/2026	Completed
		3.Quantifiers,Quantified statement ,Duals, Negation of compound statement,converse.inverse and contrapositive	10,11/4/2026	Completed
		Negation Of implication. Ex-1.3		Completed
		4.Algebra of statement Ex-1.4	13/4/2026	Completed
		5. Application of logic to switching circuit.Ex-1.5	15/4/2026	Completed
2	Matrices	1.Elementary Transformation , Inverse of matrix Ex- 2.1	16,17,20/4/2026	Completed
		a) Inverse of a nonsingular matrix by elementary transformation	21,22,23,24/4/2026	Completed
		b)Inverse of a square matrix by adjoint method Ex-2.2		Completed
		2. Application of matrices	25/4/2026	Completed
		a) Method of inversion	27,28/4/2026	Completed
		b) Method of Reduction Ex-2 .3	29/14/2026,4/5/2026	Completed

3	Linear Programming	2. Graphical Solution Ex-7.2	5,6/5/2026	Completed
		3. Meaning of LPP , Formulation Ex – 7.3	7,8,9/5/2026	Completed
		4.Solution of LPP ,Corner point method Ex-7.4		Completed
4	Derivative	1.Derivative of composite functionEx-1.1	1,2,3,4/6/2026	
		2.Derivative of Inverse function Ex-1.2	5,8,9/6/2026	
		3.Logarithmic Function ,Derivative of Implicit Function Ex – 1.3	10,11,12,13/6/2026	
		4.Derivative of Parametric Function and derivative of one function with respect to another With respect to another Ex – 1.4	15,16,17/6/2026	
		5. Higher order Derivative Ex-1.5	18,19,22,23/6/2026	
5	Application of Derivative	1.Application of derivative in geometry, Derivative of rate measure, velocity,Accn and Jerk .Ex-2.1	24,25/6/2026	
		2.Approximation Ex-2.2	26,27/6/2026	
		3. Rolle’s Theorem and LMVT Ex – 2.3	29,30/6/2026	
		4. Increasing and decreasing function, Maxima and Minima. Ex – 2.4	1,2/7/2026	
6	Trigonometric function	1.Solution of Trigonometric function, Principal solution, General soln.Ex-3.1	3,6/7/2026	
		2.Solution of triangle	7,8,9/7/2026	
		3.Sine rule, cosine rule, projection rule Half angle formula ,Napier’s Analogy Ex -3.2	10,11/7/2026	
		4. Inverse tri. Function, Principal value of Inve. Tri. Function. Ex – 3.3	17,20,21/7/2026	
		1.Combined equation of pair of lines , Homogeneous equation of degree 2 Ex-4.1	22,23,24,25/7/2026	
7	Pair of straight line	2. Angle between lines represented by ax^2+2hxy	27,28,29/7/2026	
		3. General second Degree Equation in x and y Ex-4.3	30,31/7/2026	
		1.Elementary integration formulae, Rules or theorem of integration Ex-3.1	3,4,5/8/2026	
		2. Methods of Integration Substitution Ex – 3.2 (A)	6,7,10,11/8/2026	
8	Indefinite Integration			

8	Indefinite Integration	3. Some special Integral Ex-3.2 (B)	12,13,14/8/2026	
		4. Different Types of integral Ex-3.2 (c)	14,16,20/8/2026	
		5. Integration by parts Ex- 3.3	22,23,24/8/2026	
		6. Integration by partial fraction Ex-3.4	25,26,27/8/2026	
9	Definite Integration	1. Fundamental theorem of integral calculus	29,31/8/2026	
		2. Properties of definite integral with proof. Ex -4.2	31/8/24, 1,2/9/2026	
10	Application of definite integral	1. Area under the curve Ex-5.1	6,9/9/2026	
11	Differential Equation	1. Defn. of differential Equation , order and Degree of Differential equation Ex-6.1	10,11,12/9/2026	
		2. Formation of Differential equation Ex-6.2	9/12/202026	
		3. Solution of differential equation Ex-6.3	15,16/9/2026	
		4. Homogeneous Differential equation Ex-6.4	17,21/9/2026	
		5. Linear Differential Eqn Ex-6.5	22,23,24/9/2026	
		6. Application of differential equation	1,5,6/10/2026	
		a) Population Growth and growth of bacteria		
		b) Radio active decay		
		c) Newton's Law of cooling ,		
Surface Area Ex-6.5				
12	Probability Distribution	1. Random Variable , Types of random variable a) Discrete b)	7,8/10/2026	
		2. Probability Distribution of continuous random variable , Probability density function , cumulative Distribution function . Ex-7.2	9,10,12/10/2026	
13	Binomial Distribution	1. Bernoulli Trial , Binomial distribution	13,14,15/10/2026	
		2. Mean and variance of Binomial Distribution		
		Ex-8.1		
14	Vectors	1. Representation of Vector , Magnitude of Vector , Types of Vector , Algebra of Vector ,	19,21,22/10/2026	
		Vector in 2D, Three dimensional co-ordinate system, component of vector , position vector of a point in a space Ex-5.1		
		2. Section Formula , midpoint formula , theorems, Ex-		23,24,26/10/2026
		3. Product of Vectors, Angle between two vectors, projection	27,28,29/10/2026	
		4. Vector Product of two vectors Ex-5.4	23,24,25,26/11/2026 &	

		5. Scalar Triple product ,vector Triple Product Ex-5.5	27,28,30/11/2026	
15	Line and Plane	1.Vector and Cartesian equation of a line ,equation of a line	1,2,3,7/12/2026	
		2. Distance of a point from a line, Distance between skew lines , Distance between parallel lines Ex-6.2	8,9,10/12/2026	

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Principal

		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

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