



ACA/DI/15	TEACHING PLAN (TP) Tentative	Academic Year:2026-27
REV: 00	Subject- Mathematics	Class- 12th Commerce
Date- 8/5/2026		Subject code-88

Stream:-Commerce
Standard: 12th-Maths

Subject:-Mathematics & Statistics
Name of Faculty: Mrs. Mayura Patel

No.	Name of Chapter	Topics/ content of chapter	Planned Date of Commencing	Planned Date of Completion	Media/Teaching Aid/ Teaching Method used
1	Mathematical Logic	1.Statement ,Truth value of Statement Ex-1.1 2.Logical connectives ,simple and compound statement conjunction and disjunction Ex-1.2 3.Negation Ex- 1.3 4.conditional statement , biconditional statement Ex- 5.Quantifiers, Quantified statement Ex -1.5 6. Statement pattern, logical equivalence ,Tautology, Contradiction ,Contingency Ex-I .6 7.Duality Ex-1.7 8.Negation of compund statement, converse inverse 9.revision	6/4/2026 7,8/4/2026 9,10/4/2026 11,13/4/2026 15,16/4/2026 17,20/4/2026 21,22/4/2026 23,24/4/2026 25,27/4/2026	6/4/2026 7,8/4/2026 9,10/4/2026 11,13/4/2026 15,16/4/2026 17,20/4/2026 21,22/4/2026 23,24/4/2026 25,27/4/2026	White board Hand written notes

2	Matrices	<p>1. Defn of matrix, determinant, Types of matrices Ex -</p> <p>2. Algebra of matrices Ex-2.2</p> <p>3. Multiplication of Matrices Ex-2.3</p> <p>4. Properties of transpose of matrix Ex-2.4</p> <p>5. Elementary Transformation Inverse of matrix</p> <p> 1. By elementary transformation</p> <p> 2. By Adjoint method Ex-2.5</p> <p>6. Application of matrices</p> <p> 1. inversion method</p> <p> 2. Reduction method Ex-2.6</p>	<p>28/4/2026</p> <p>29,30/4/2026</p> <p>4,5/5/2026</p> <p>6,7,8,9/5/2026</p> <p>1,2/6/2026</p> <p>3,4,5/6/2026</p> <p>8,9/6/2026</p> <p>10,11/6/2026</p>	<p>28/4/2026</p> <p>29,30/4/2026</p> <p>4,5/5/2026</p> <p>6,7,8,9/5/2026</p> <p>1,2/6/2026</p> <p>3,4,5/6/2026</p> <p>8,9/6/2026</p> <p>10,11/6/2026</p>	<p>White board Hand written notes</p>
3	LPP	<p>1. LPP, meaning, mathematical formulation Ex-6.1</p> <p>2. Solution of LPP by graphical method Ex-6.2</p>	<p>12,13/6/2026</p> <p>15,16,17/6/2026</p>	<p>12,13/6/2026</p> <p>15,16,17/6/2026</p>	
4	Differentiation	<p>1. Derivative of some std function, Rule of Differentiation, Derivative of composite function Ex — 3.1</p> <p>2. Derivative of Inverse function Ex-3.2</p> <p>3. Derivative of logarithmic function Ex-3.3</p> <p>4. Derivative of Implicit Function Ex — 3.4</p> <p>5. Derivative of Parametric Function Ex -3.5</p> <p>6. Second order Derivative Ex -3.6</p>	<p>18,19/6/2026</p> <p>22,23/6/2026</p> <p>24,25/6/2026</p> <p>27,29/6/2026</p> <p>30/6/2026</p> <p>1.2/7/2026</p>	<p>18,19/6/2026</p> <p>22,23/6/2026</p> <p>24,25/6/2026</p> <p>27,29/6/2026</p> <p>30/6/2026</p> <p>1.2/7/2026</p>	
5	Application of Differentiation	<p>1. Application of derivative in geometry, equation of tangent and normal Ex-4.1</p> <p>2. Increasing and decreasing function Ex -4.2</p> <p>3. Maxima and Minima Ex —4.</p> <p>4. Application of derivative in Economics Ex-4.4</p> <p>5. Revision</p>	<p>3,6/7/2026</p> <p>7,8/7/2026</p> <p>9/7/2026</p> <p>10/7/2026</p> <p>11/7/2026</p>	<p>3,6/7/2026</p> <p>7,8/7/2026</p> <p>9/7/2026</p> <p>10/7/2026</p> <p>11/7/2026</p>	
6	Assignment problem and Sequencing	<p>1. Assignment problem, Hungarian method, special case of assignment problem Ex-7.1</p> <p>2. Sequencing problem Ex-7.2</p>	<p>16,17,20,21,22/7/2026</p> <p>23,24,25,27/7/2026</p>	<p>16,17,20,21,22/7/2026</p> <p>23,24,25,27/7/2026</p>	
7	Time series	<p>Def, uses of Time series Analysis, components of time series secular trend, Seasonal variation c), Irregular variation</p>	<p>28,29,30,31/7/2026</p> <p>3,4,5/8/2026</p>	<p>28,29,30,31/7/2026</p> <p>3,4,5/8/2026</p>	

8	Index number	1.Definition of Index number ,Example Nifty ,senses, Types of index number, Terminology, Notation , construction of index number Ex -5.1 2.1vlethod -2 Weighted Aggregate method Ex -5.2 3.cost of living index number, Family budget method Es-5.3	6,7,8/8/2026 10,11/8/2026 12,13,14/8/2026	6,7,8/8/2026 10,11/8/2026 12,13,14/8/2026
9	Integration	1 .Elementary integration formulae, Rules or theorem of integration Ex-5.1 2.Methods of Substitution Ex-5.2 3.Integrals of the Ex -5.3 4.To solve some different types of integrations Ex -5.4 5.Integration by parts and evaluation of different types of integration Ex -5.5 6. Integration by partial fraction Ex - 5.6	17,18/8/2026 19,20/8/2026 21,22/8/2026 24,25/8/2026 26,27/8/2026 28,29,31/8/2026	17,18/8/2026 19,20/8/2026 21,22/8/2026 24,25/8/2026 26,27/8/2026 28,29,31/8/2026
10	Definite integration	1.Fundamental theorem of integral calculus Ex-6.1 2.Pro certies of definite inte ral Ex-6.2	1,2,3/9/2026 7,8,9/9/2026	1,2,3/9/2026 7,8,9/9/2026
11	Application of definite integral	1.Area under the curve Ex-7.1	10,11,12/9/2026	10,11,12/9/2026
12	Differential Equation	1.Def. of differential Equation , order and Degree of Differential equation Ex-8.1 2. Formation of Differential equation Ex-8.2 3. Solution of differential equation Ex-8.3 4. Homogeneous Differential equation Ex-8.4 5. Linear Differential Equation Ex-8.5 6. Application of Differential equation Ex-8.6	15,16/9/2026 17,18/9/2026 21,22/9/2026 23,24/9/2026 25,30/9/2026 1,5,6,7/10/2026	15,16/9/2026 17,18/9/2026 21,22/9/2026 23,24/9/2026 25,30/9/2026 1,5,6,7/10/2026
13	Commission, Brokerage and Discount	1.commission and brokerage agent, Del credere agent , Principal, Broker, factor and discount , Trade discount cash discount Ex- 1.1 2.Discount , present worth ,sum due ,true discount ,drawer, drawee , date of bill ,face value ,nominal due date, legal due date Ex -1.2	8,9,10,12,13/10/2026 14,15,16,19,21/10/2026	8,9,10,12,13/10/2026 14,15,16,19,21/10/2026
14	Insurance and Annuity	1.insurance, life insurance, general insurance Ex-2.1 2.Annuity,Four parties of annuity, two phases of annu Types of Annuities, Classification ,Basic formula for Ex-2.2	22,23,24,26/10/2026 27,28,29/10/2026	22,23,24,26/10/2026 27,28,29/10/2026

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15	Linear Regression	1.Meaning and Types of regression ,Types of linear regression, fitting simple linear regression ,scatter diagram , method of least square, Regression of Y on X Ex-3.1	23,24,25,26/11/2026	23,24,25,26/11/2026	White board Hand written notes
		2.Properties of Regression coefficient Ex-3.2 2,Correlation Co-efficient Ex -3.3	27,28,30/11/2026	27,28,30/11/2026	
16	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-8.1	1,2,3,4/12/2026	1,2,3,4/12/2026	
		2. Probability Distribution of continuous random variable , Probability density function, cumulative Distribution function .Ex-8.2 REVISION	7,8,9,10/12/2026	7,8,9,10/12/2026	

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<i>Exam</i>	<i>Date of Exam</i>	<i>CH.No.</i>	<i>Unit for Exam</i>
Unit Test -1	13/7/2026 to 16/7/2026	1	Mathematical Logic
		2	Matrices
		3	Differentiation
		4	Application of Differentiation
Unit Test -2	26/9/2026 to 30/9/2026	5	LPP
		6	Assignment problem and Sequencing
		7	Time series
		8	Index number
Term Exam	30/10/2026 to 6/11/2026	1	Mathematical Logic
		2	Matrices
		3	Differentiation
		4	Application of Differentiation
		5	LPP
		6	Assignment problem and Sequencing
		7	Time series
		8	Index number
		9	Integration
Prelim 1	15/12/2026 to 22/12/2026	1 to 16	All Topics
Prelim 2	1/1/2027 to 8/01/2027	1 to 16	All Topics

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