



ACA/DI/15	TEACHING PLAN (TP) Tentative	Academic Year:2025-26
REV: 00	Subject- Mathematics	Class- 12th Commerce
Date- 9/5/2025		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 compound statement, converse inverse 9.revision	9/4/2025 10,11/4/2025 12,15/4/2025 16,17/4/2025 18,21/4/2025 22,23/4/2025 24/4/2025 25,26/4/2025 28,29/4/2025	9/4/2025 10,11/4/2025 12,15/4/2025 16,17/4/2025 18,21/4/2025 22,23/4/2025 24/4/2025 25,26/4/2025 28,29/4/2025	White board Hand written notes

2	Matrices	1.Defn of matrix, determinant ,Types of matrices Ex - 2. Algebra of matrices Ex-2.2 3. Multiplication of Matrices Ex-2.3 4. Properties of transpose of matrix Ex-2.4 5. Elementary Transformation Inverse of matrix 1. By elementary transformation 2. By Adjoint method Ex-2.5 6. Application of matrices 1.inversion method 2.Reduction method Ex-2.6	30/4/2025 2,5/5/2025 6,7/5/2025 8,9,10/5/2025 2,3,4/6/2025 5,6/6/2025 9,10/6/2025 11,12/6/2025	30/4/2025 2,5/5/2025 6,7/5/2025 8,9,10/5/2025 2,3,4/6/2025 5,6/6/2025 9,10/6/2025 11,12/6/2025	White board Hand written notes
3	Differentiation	1 .Derivative of some std function , Rule of Differentiation ,Derivative of composite function Ex — 3.1 2.Derivative of Inverse function Ex-3.2 3. Derivative of logarithmic function Ex-3.3 4. Derivative of Implicit Function Ex — 3.4 5.Derivative of Parametric Function Ex -3.5 6. Second order Derivative Ex -3.6	13,14/6/2025 16,17/6/2025 18,19/6/2025 20,23/6/2025 24,25/6/2025 26,27/6/2025	13,14/6/2025 16,17/6/2025 18,19/6/2025 20,23/6/2025 24,25/6/2025 26,27/6/2025	
4	Application of Differentiation	1.Application of derivative in geometry, equation of tangent and normal Ex-4.1 2. Increasing and decreasing function Ex -4.2 3. Maxima and Minima Ex —4. 4. Application of derivative in Economics Ex-4.4 5. Revision	28,30/6/2025 1,2,3/7/2025 4,7,8/7/2025 9,10,11/7/2025 12,14/7/2025	28,30/6/2025 1,2,3/7/2025 4,7,8/7/2025 9,10,11/7/2025 12,14/7/2025	
5	LPP	1.LPP, meaning , mathematical formulation Ex-6.1 2.Solution of LPP by graphical method Ex-6.2	21,22/7/2025 23,24/7/2025	21,22/7/2025 23,24/7/2025	
6	Assignment problem and Sequencing	1.Assignment problem , Hungarian method ,special case of assignment problem Ex-7.1 2.Sequencing problem Ex-7.2	25,26,28,29,30,31 /7/2025 1,4,5/8/2025	25,26,28,29,30,31 /7/2025 1,4,5/8/2025	
7	Time series	Def, uses of Time series Analysis ,components of time series secular trend ,Seasonal variation c), Irregular variation	6,7,8,11,12,13 /8/2025	6,7,8,11,12,13 /8/2025	

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	14,18,/8/2025 19,20/8/2025 21,22,23/8/2025	14,18,/8/2025 19,20/8/2025 21,22,23/8/2025	White board Hand written notes
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	25,26/8/2025 28,29,30/8/2025 2,3/9/2025 4,8/9/2025 13,15/9/2025 16,17,18,19/9/2025	25,26/8/2025 28,29,30/8/2025 2,3/9/2025 4,8/9/2025 13,15/9/2025 16,17,18,19/9/2025	
10	Definte integration	1.Fundamental theorem of integral calculus Ex-6.1 2.Pro crties of definite inte ral Ex-6.2	23,24/9/2025 25,26/9/2025	23,24/9/2025 25,26/9/2025	
11	Application of definite integral	1.Area under the curve Ex-7.1	27,29,30/9/2025	27,29,30/9/2025	
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	1,3/10/2025 6,7/10/2025 8,9/10/2025 3,4/11/2025 6,7,8/11/2025 10,11/11/2025	1,3/10/2025 6,7/10/2025 8,9/10/2025 3,4/11/2025 6,7,8/11/2025 10,11/11/2025	
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	12,13,14/11/2025 17,18,19,20/11/2025	12,13,14/11/2025 17,18,19,20/11/2025	

14	Insurance and Annuity	Linsurance, 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	21,22,24,25/11/2025 26,27,28,29/11/2025	21,22,24,25/11/2025 26,27,28,29/11/2025	White board Hand written notes
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 2.Properties of Regression coefficient Ex-3.2 2,Correlation Co-efficient Ex -3.3	1,2,3/12/2025 4,5,8,9/12/2025	1,2,3/12/2025 4,5,8,9/12/2025	
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 2. Probability Distribution of continuous random variable , Probability density function, cumulative Distribution function .Ex-8.2 REVISION	10,11,12,13/12/2025 15,16,17,18/12/2025 19,22,23/12/2025	10,11,12,13/12/2025 15,16,17,18/12/2025 19,22,23/12/2025	

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Exam	Date of Exam	CH.No.	Unit for Exam
Unit Test -1	7/15/2025 to 7/18/2025	1 2 3 4	Mathematical Logic Matrices Differentiation Application of Differentiation
Unit Test -2	9/9/2025 to 9/12/2025	5 6 7 8	LPP Assignment problem and Sequencing Time series Index number
Term Exam	10/10/2025 to 10/17/2025	1 2 3 4 5 6 7 8 9	Mathematical Logic Matrices Differentiation Application of Differentiation LPP Assignment problem and Sequencing Time series Index number Integration
Prelim 1		1 to 16	All Topics
Prelim 2		1 to 16	All Topics

Subject Teacher
Mrs. Mayura Patel

Principal
Mr. Sandip Patil