Pimpri Chinchwad Education
S.B.Patil College Of Science
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UDISE NO: 27252001412

ACA/DI/15	TEACHING PLAN (TP) Tentative
REV: 00	Subject- Mathematics
Date- 20/6/2023	

Stream:-Commerse
Standard: 12th-Maths

No.	Name of Chapter	Topics/ content of chapter
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
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 Ex2.4 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.Rcduction method Ex-2.6

3	Differentation	1 .Derivative of some std function , Rule of Differentiation ,Derivative of composite function Ex — 3.1 2.Derivativc 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
4	Application of Differentation	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	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
6	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
7	Integration	1 .Elementary integration formulae, Rules or theorem of integration Ex-5.1 2.Methods of Substitution Ex-5.2 3.Integrals of the $\int \frac{ae^x+b}{ce^x+d}\,dx$ 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
8	Definte integration	1.Fundamental theorem of integral calculus Ex-6.1 2.Pro crties of definite inte ral Ex-6.2
9	Application of definite integral	1.Area under the curve Ex-7.1
10	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
11	Time series	Def, uses of Time series Analysis ,components of time series secular trend ,Seasonal variation c), Irregular variation

12	Index number	1.Definition of Index number ,Example Nifty ,senses, Types of index number, Terminology, Notation , construction of index number Ex -5.1 2.1vIethod -2 Weighted Aggregate method Ex -5.2 3.cost of living index number, Family budget method Es-5.3
13	LPP	1.LPP,mcaning , mathematical formulation Ex-6.1 2.Solution of LPP by graphical method Ex-6.2
14	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	Assignment problem and Sequencing	1.Assignment problem , Hungarian method ,special case of assignment problem Ex-7.1 2.Sequncing problem Ex-7.2
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

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College Index No : J.11.16.066

Academic Year:2023-24
Class- 12th Commerce
Subject code-88

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

Planned Date of Commencing	Planned Date of Completion	Media/Teaching Aid/ Teaching Method used
15/05/2023 16/05/2023 17/05/2023 18/05/2023 19/05/2023 1/06/2023 2/06/2023 5/06/2023	15/05/2023 16/05/2023 17/05/2023 18/05/2023 19/05/2023 1/06/2023 2/06/2023 5/06/2023	
6/06/2023 7/06/2023 8/06/2023 9,10/06/2023 12,13,14/06/2023 15,16,19/06/2023	6/06/2023 7/06/2023 8/06/2023 9,10/06/2023 12,13,14/06/2023 15,16,19/06/2023	White board Hand written notes

20,21/06/2023 22,23/06/2023 24,26/06/2023 27/06/2023 28,30/06/2023	20,21/06/2023 22,23/06/2023 24,26/06/2023 27/06/2023 28,30/06/2023	White board Hand written notes
3,8/07/2023 10,11/07/2023 12,13/07/2023 14,17/07/2023	3,8/07/2023 10,11/07/2023 12,13/07/2023 14,17/07/2023	
18,19,20,21/07/2023 24,25,26/07/2023	18,19,20,21/07/2023 24,25,26/07/2023	White board Hand written notes
27,28/07 1,2/08/2023 3,4/08/2023	27,28/07 1,2/08/2023 3,4/08/2023	
7,8/08/2023 9,10/08/2023 11/08/2023 12/08/2023 14,16/08/2023 17,18/08/2023	7,8/08/2023 9,10/08/2023 11/08/2023 12/08/2023 14,16/08/2023 17,18/08/2023	White board Hand written notes
21,22/08/2023 23,24/08/2023	21,22/08/2023 23,24/08/2023	
25,26,28/08/2023	25,26,28/08/2023	
29,31/08/2023 4,5/09/2023 14/09/2023	29,31/08/2023 4,5/09/2023 14/09/2023	
15,18,20/09/2023	15,18,20/09/2023	White board

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3,4,5/10/2023 6,9,10/10/2023	3,4,5/10/2023 6,9,10/10/2023	
12/10/2023 13/10/2023 14/10/2023 16,17/10/2023 18/10/2023 19,20/10/2023	12/10/2023 13/10/2023 14/10/2023 16,17/10/2023 18/10/2023 19,20/10/2023	
23,25,26,27/10/2023 28,30/10/2023	23,25,26,27/10/2023 28,30/10/2023	White board Hand written notes
20,21,22,23,24/11/23 25,27,28,29,30/11/23	20,21,22,23,24/11/23 25,27,28,29,30/11/23	

Teaching Plan (TP) [Tentetive]

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College Index No : J.11.16.066

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

Planned Date of Commencing	Planned Date of Completion	Media/Teaching Aid/ Teaching Method used	Remark