

## LESSON PLAN

Session -14 March-28th June 2022

Name of the teacher: Suniti Rani

Subject: Applied Mathematics-II

Govt. Polytechnic Sundernagar Branch : Mech. Engg . 2nd Sem.

S. No.	Period No.	Week	Name of Chapter	Content to be taught	Remarks
1	1-5	1st	Algebra	Def. of Det., Minors, co-factors & Laplace's Expansion ( Ex-1.1) Properties of Det. (Ex.-1.2)	
2	6-10	2nd	Determinants	Solution of the system of equations by Cramer's Rule (Ex-1.3)	
3	11-15	3rd	Matrices	Matrix, Types of Matrix, Ex-2.1, Multiplication of Matrices, Transpose of Matrix, Symmetric & Skew Symm. Matrices (Ex-2.2)	
4	16-20	4th	Matrices	Ex-2.2, Inverse of Matrix, Adjoint of Matrix, Solution of System of Linear Equations (Ex-2.3)	
5	21-25	5th	Co-Ordinate Geometry (St. Line)	Equation of a St. Line in Diff. Forms ( Ex-1.1), Angle B/N Two Line, Any line parallel /perpendicular to the St. Line ( Ex-1.2 )	
6	26-30	6th	St. Line & The Circle	Ex-1.2, The Equation of a Circle in Different Forms ( Ex-2.1)	
7	31-35	7th	Conics (Parabola & Ellipse)	Equation of Parabola, Properties of Parabola (Ex-3.1) Ellipse (Ex-3.2)	
8	36-40	8th	Hyperbola	Hyperbola (Ex-3.3) Some More Revision Questions	
9	41-45	9th	Integral Calculus	Fundamental Integrals Ex (1.1) Int. by Substitution Ex-2.1, & Ex-2.2	
10	46-50	10th	Integral Calculus	Some Special Methods Ex 2.3, Integration by Parts Ex-3.1, Int. By Partial Fractions EX-4.1	
11	51-55	11th	Definite Integral	Standard Formulae Ex-4.2	
12	56-60	12th	Definite Integral	Area & Volume Under the Curve Ex-4.3	
13	61-65	13th	Vector Algebra	Vector Algebra Ex-1.1, Scalar Products Ex-1.2, Vector Product Ex-1.3, Ex-1.4	
14	66-70	14th	Differential Equations	Order & Degree of Diff. Equ. Ex-1.1 & Ex-1.2	
15	71-75	15th		Revision of some Important Questions	
16	76-80	16th		Revision of Previous Question Papers	

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Teacher's Signature

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