LESSON PLAN(MATHEMATICS-II)

Name Of The Institute:	C. V. Raman Polytechnic
Department:	Basic Science & Humanities
Semester/Division/Branch:	2nd Sem
Subject Name With Code:	Mathematics - II (Th.3)
Total No. Of Class (Required):	60
Name of the Faculty	Dr. Soumyarani Mishra

Class No.	*Brief Description Of The Topic/Chapter To Be Taught*	Remarks
1	Matrices & Types Of Matrices	
2	Algebra Of Matrices(Examples)	
3	Determinant(Examples)	
4	Properties Of Determinant(Examples)	
5	Properties Of Determinant(Examples)	
6	Minors And Cofactors	
7	Adjoint Matrix	
8	Inverse Of A Matrix	
9	Solution Of Simultaneous Equations By Cramer's Rule	
10	Solution Of Simultaneous Equations By Matrix Inverse Method	
11	Question practice	
12	Question practice	
13	Definition Of Integration As Inverse Of Differentiation	
14	Integrals Of Standard Functions	
15	Methods Of Integration - Integration By Substitution	
16	Examples	

17	Integration By Parts	
18	Examples	
19	Integration Formula Derivation	
20	Examples	
21	Definite Integrals	
22	Properties Of Definite Integrals	
23	Examples	
24	Application Of Definite Integrals	
25	Examples	
26	Question Practice	
27	Question Practics	
28	1ST MONTHLY CLASS TEST	
29	Introduction Of Geometry In Two Dimension	
30	Distance Formulae, Division Formulae	
31	Examples	
32	Area Of A Triangle	
33	Slope Of A Line, Angle Between Two Lines, Condition Of Perpendicularity And Parallelism	
34	Examples	
35	Equation Of A Line Passing Through A Point And (I) Parallel To A Line (Ii) Perpendicular To A Line	
36	Examples	
37	Equation Of A Line Passing Through The Intersection Of Two Lines	
38	Distance Of A Point From A Line	
39	Equation Of A Circle- Center Radius Form	
40	End Point Of Diameter Form	
41	General Equation Of A Circle	
42	Examples	

43	Angle Between Two Lines (Condition Of Parallelism And Perpendicularity)	
44	Definition of conics (Parabola, Ellipse, Hyperbola) their standard equations without proof. Problems on conics when their foci, directories or vertices are given.	
45	Examples	
46	Question Practics	
47	Definition notation and rectangular resolution of a vector.	
48	Addition and subtraction of vectors. Scalar and vector products of 2 vectors.	
49	Simple problems related to work, moment and angular velocity.	
50	Eamples	
51	Solution Of Differential Equation I) 1st Order And 1st Degree Equation By The Method Of Separation Of Variables	
52	Examples	
53	Ii) Linear Differential Equation	
54	Examples	
55	Question Practice	
56	Question Practice	
57	2ND MONTHLY CLASS TEST	
58	REVISION	
59	REVISION	
60	REVISION	

Signature Of The Faculty

Signature Of The H.O.D