

TEACHING PLAN FOR THEORY

Subject: Engg Maths-I		Class: F.Y.B.Tech.(F Div.)
Year 2017-18		
Lecture No.	Scheduled Date	Topics to be covered on the scheduled date
		UNIT-I : Matrices
1	02/08/2017	Basics of Matrix,
	02/08/2017	TAE-I
2	04/08/2017	Rank of Matrix
3	07/01/1900	Reduction methods Normal form,
4	08/08/2017	Row Echelon form and PAQ form
	08/08/2017	Tutorial-1
5	09/08/2017	System of Linear algebraic equations
6	11/08/2017	homogeneous equations
7	14/08/2017	Non-homogeneous equations
		UNIT-II:Linear Algebra
8	16/08/2017	Linear dependence and independence of vectors
	17/08/2017	TAE-II
9	18/08/2017	Linear and Orthogonal Transformation
	21-23/08/2017	CAE-I
12	28/08/2017	Eigen values, Eigen vectors(Symmetric Matrices)
13	29/08/2017	Eigen values, Eigen vectors (Non Symmetric Matrices)
	29/08/2017	Tutorial-2
14	30/08/2017	Cayley-Hamilton theorem
		UNIT-III : Differential Calculus and Expansion of Functions

15	01/09/2017	Successive Differentiation
16	04/09/2017	Finding Nth Derivative by standard function
17	06/09/2017	trigonometrical transformation
18	08/09/2017	Partial fraction method
19	11/09/2017	Leibnitz's Theorem
20	12/09/2017	Indeterminate Forms, L' Hospital's Rule,
	12/09/2017	Tutoial-3
	13/09/2017	TAE-IV
21	13/09/2017	Indeterminate Forms, L' Hospital's Rule,
22	15/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
23	18/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
24	19/09/2017	differentiation and Integration, use of substitution
	19/09/2017	Tutoial-4
		UNIT-IV : Infinite Series
25	20/09/2017	Infinite Sequences, Infinite Series, Alternating Series
26	20/09/2017	Tests for Convergence by Cauchy's nth root test
	21- 23/09/2017	CAE-II
27	25/09/2017	p test, comparison test, D'Alemberts Ratio test,
28	26/09/2017	Raabe's test, Leibnitz test,
	26/09/2017	Tutoial-5
	27/09/2017	TAE-V
29	27/09/2017	Absolute and Conditional Convergence
30	29/09/2017	Range of Convergence
		UNIT-V : Integral Calculus
31	03/10/2017	Reduction Formulae
	03/10/2017	Tutoial-6
32	04/10/2017	Reduction Formulae
33	06/10/2017	Beta and Gamma functions,

34	09/10/2017	Beta and Gamma functions,
35	10/10/2017	Differentiation Under Integral Sign
	10/10/2017	Tutoial-7
36	11/10/2017	Error Functions
	11/10/2017	TAE-VII
		Unit – VI : Solid Geometry
37	13/10/2017	Cartesian, Spherical, Polar and Cylindrical Co-ordinate Systems
	23-25/10/17	CAE-III
38	27/10/2017	Sphere,
39	30/10/2017	Examples for revision
40	31/10/2017	Cylinder
	31/10/2017	Tutoial-8
41	01/11/2017	Examples for revision
42	02/10/2017	Cone
43	03/11/2017	Examples for revision
	06-08/11/2017	CAE-IV
44	10/11/2017	Revision