

TEACHING PLAN FOR THEORY

Subject: Engg Maths-I		Class: F.Y.B.Tech.(G Div.)
Year 2017-18(SEM.I)		
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	Tutorial-1
	02/08/2017	TAE-I
2	03/08/2017	Rank of Matrix
3	04/08/2017	Reduction methods Normal form,
4	08/08/2017	Row Echelon form and PAQ form
5	09/08/2017	System of Linear algebraic equations
	09/08/2017	Tutorial-2
6	10/08/2017	homogeneous equations
7	11/08/2017	Non-homogeneous equations
		UNIT-II:Linear Algebra
8	16/08/2017	Linear dependence and independence of vectors
	16/08/2017	Tutorial-3
	17/08/2017	TAE-II
9	18/08/2017	Linear and Orthogonal Transformation
	21-23/08/2017	CAE-I
12	24/08/2017	Eigen values, Eigen vectors(Symmetric Matrices)
13	29/08/2017	Eigen values, Eigen vectors (Non Symmetric Matrices)
14	30/08/2017	Cayley-Hamilton theorem
	30/08/2017	Tutorial-4

		UNIT-III : Differential Calculus and Expansion of Functions
15	31/08/2017	Successive Differentiation
16	01/09/2017	Finding Nth Derivative by standard function
17	06/09/2017	trigonometrical transformation
	06/09/2017	Tutoial-5
18	07/09/2017	Partial fraction method
19	08/09/2017	Leibnitz's Theorem
20	12/09/2017	Indeterminate Forms, L' Hospital's Rule,
	13/09/2017	TAE-IV
	13/09/2017	Tutoial-6
21	13/09/2017	Indeterminate Forms, L' Hospital's Rule,
22	14/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
23	15/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
24	19/09/2017	differentiation and Integration, use of substitution
		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	26/09/2017	p test, comparison test, D'Alemberts Ratio test,
28	27/09/2017	Raabe's test, Leibnitz test,
	27/09/2017	Tutoial-7
	27/09/2017	TAE-V
29	28/09/2017	Absolute and Conditional Convergence
30	29/09/2017	Range of Convergence
		UNIT-V : Integral Calculus
31	03/10/2017	Reduction Formulae
32	04/10/2017	Reduction Formulae
	04/10/2017	Tutoial-8

33	05/10/2017	Beta and Gamma functions,
34	06/10/2017	Beta and Gamma functions,
35	10/10/2017	Differentiation Under Integral Sign
	11/10/2017	Tutoial-9
36	11/10/2017	Error Functions
	11/10/2017	TAE-VII
		Unit – VI : Solid Geometry
37	12/10/2017	Cartesian, Spherical, Polar and Cylindrical Co-ordinate Systems
38	13/10/2017	Sphere,
	23-25/10/17	CAE-III
39	26/10/2017	Examples for revision
40	27/10/2017	Cylinder
41	31/10/2017	Examples for revision
	01/11/2017	Tutoial-10
42	01/11/2017	Cone
43	02/11/2017	Examples for revision
44	03/11/2017	Examples for revision
	06-08/11/2017	CAE-IV
45	09/11/2017	Revision
46	10/11/2017	Revision