

**TEACHING PLAN FOR THEORY**

<b>Subject: Engg Maths-I</b>		<b>Class: F.Y.B.Tech.(E)</b>
<b>Year 2017-18</b>		
<b>Lecture No.</b>	<b>Scheduled Date</b>	<b>Topics to be covered on the scheduled date</b>
		<b>UNIT-I : Matrices</b>
1	17/07/2017	Basics of Matrix,
	17/07/2017	Tutoial-1
2	18/07/2017	Rank of Matrix
3	19/07/2017	Reduction methods Normal form,
4	20/07/2017	Row Echelon form and PAQ form
5	24/07/2017	Row Echelon form and PAQ form
	24/07/2017	Tutoial-2
6	25/07/2017	System of Linear algebraic equations
7	26/07/2017	homogeneous equations
8	27/07/2017	Non-homogeneous equations with consistency
9	31/07/2017	Non-homogeneous equations with inconsistency
	31/07/2017	Tutoial-3
		<b>UNIT-II:Linear Algebra</b>
10	01/08/2017	Linear dependence and independence of vectors
11	02/08/2017	Linear and Orthogonal Transformation
	02/08/2017	<b>TAE-I</b>
12	03/08/2017	Eigen values, Eigen vectors(Symmetric Matrices)
13	07/08/2017	Eigen values, Eigen vectors (Non Symmetric Matrices)
	07/08/2017	Tutoial-4

14	08/08/2017	Eigen values, Eigen vectors (Non Symmetric Matrices)
15	09/08/2017	Cayley-Hamilton theorem
16	10/08/2017	Cayley-Hamilton theorem
		<b>UNIT-III : Differential Calculus and Expansion of Functions</b>
17	14/08/2017	Successive Differentiation
	14/08/2017	Tutorial-4
18	16/08/2017	Finding Nth Derivative by standard function
	17/08/2017	<b>TAE-II</b>
	21- 23/08/2017	<b>CAE-I</b>
19	24/08/2017	trigonometrical transformation
20	28/08/2017	Partial fraction method
	28/08/2017	Tutorial-5
21	29/08/2017	Leibnitz's Theorem
22	30/08/2017	Indeterminate Forms, L' Hospital's Rule,
23	31/08/2017	Indeterminate Forms, L' Hospital's Rule,
24	04/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
	04/09/2017	Tutorial-6
26	06/09/2017	Taylor's Series and Maclaurine's series with standard expansion,
27	07/09/2017	differentiation and Integration, use of substitution
		<b>UNIT-IV : Infinite Series</b>
28	07/09/2017	Infinite Sequences, Infinite Series, Alternating Series
29	11/09/2017	Tests for Convergence by Cauchy's nth root test
	11/09/2017	Tutorial-7
30	12/09/2017	p test, comparison test, D'Alemberts Ratio test,
	13/09/2017	<b>TAE-IV</b>
31	13/09/2017	Raabe's test, Leibnitz test,
32	14/09/2017	Absolute and Conditional Convergence
33	18/09/2017	Range of Convergence

	18/09/2017	Tutoial-8
		<b>UNIT-V : Integral Calculus</b>
34	19/09/2017	Reduction Formulae
35	20/09/2017	Reduction Formulae
	21- 23/09/2017	<b>CAE-II</b>
36	25/09/2017	Beta and Gamma functions,
	25/09/2017	Tutoial-9
37	26/09/2017	Beta and Gamma functions,
38	27/09/2017	Differentiation Under Integral Sign
	27/09/2017	<b>TAE-V</b>
39	28/09/2017	Error Functions
		<b>Unit – VI : Solid Geometry</b>
40	03/10/2017	Cartesian, Spherical, Polar and Cylindrical Co-ordinate Systems
41	04/10/2017	Sphere,
42	05/10/2017	Examples for revision
	09/10/2017	Tutoial-10
43	10/10/2017	Examples for revision
44	11/10/2017	Cylinder
	11/10/2017	<b>TAE-VII</b>
45	12/10/2017	Examples for revision
	23-25/10/17	<b>CAE-III</b>
	26/10/2017	Examples for revision(Cylinder)
46	30/10/2017	Cone
		Tutoial-11
47	31/10/2017	Examples for revision
48	01/11/2017	Examples for revision
49	02/11/2017	Revision
	06- 08/11/2017	<b>CAE-IV</b>

