

**TEACHING PLAN FOR THEORY**

<b>Subject: Engg Maths-I</b>		<b>Class: F.Y.B.Tech.(E Div.)</b>		<b>Year 2018-19</b>	
<b>Lecture No.</b>	<b>Scheduled Date</b>	<b>Topics to be covered on the scheduled date</b>	<b>Dates On which Actually covered</b>	<b>Reasons for deviation (if any)</b>	
		<b>UNIT-I : Matrices</b>			
	30/7/2018	Tutoial-1			
1	31/7/2018	Basics of Matrix, Rank of Matrix			
2	31/7/2018	Reduction methods Normal form,			
3	1/8/2018	Row Echelon form and PAQ form			
4	2/8/2018	System of Linear algebraic equations			
5	2/8/2018	Homogeneous equations			
6	3/8/2018	Non-homogeneous equations			
	3/8/2018	<b>TAE-I</b>			
		<b>UNIT-II:Linear Algebra</b>			
7	6/8/2018	Linear dependence and independence of vectors			
	6/8/2018	Tutoial-2			
8	7/8/2018	Linear dependence and independence of vectors			
	3/9/2018	<b>TAE-II</b>			
9	8/8/2018	Linear and Orthogonal Transformation			
10	9/8/2018	Eigen values, Eigen vectors(Symmetric Matrices)			
11	10/8/2018	Eigen values, Eigen vectors (Non Symmetric Matrices)			
	13/8/2018	Tutoial-3			

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12	14/8/2018	Cayley-Hamilton theorem			
	<b>16-18/8/2018</b>	<b>CAE-I</b>			
		<b>UNIT-III : Differential Calculus and Expansion of Functions</b>			
	20/8/2018	Tutoial-4			
13	21/8/2018	Successive Differentiation, Finding Nth Derivative by standard function			
14	22/8/2018	Trigonometrical transformation, Partial fraction method			
15	23/8/2018	Leibnitz's Theorem			
16	24/8/2018	Indeterminate Forms, L' Hospital's Rule			
	27/8/2018	Tutoial-5			
17	28/8/2018	Indeterminate Forms, L' Hospital's Rule,			
18	29/8/2018	Taylor's Series and Maclaurine's series with standard expansion,			
19	30/8/2018	Taylor's Series and Maclaurine's series with standard expansion,			
20	31/8/2018	Differentiation and Integration, use of substitution			
		<b>UNIT-IV : Infinite Series</b>			
	3/9/2018	Tutoial-6			
21	4/9/2018	Infinite Sequences, Infinite Series, Alternating Series			
22	5/9/2018	Tests for Convergence by Cauchy's nth root test			

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23	6/9/2018	p test, comparison test, D'Alemberts Ratio test,			
24	7/9/2018	Raabe's test, Leibnitz test,			
	10/9/2018	Tutoial-7			
25	11/9/2018	Absolute and Conditional Convergence			
26	12/9/2018	Range of Convergence			
		<b>UNIT-V : Integral Calculus</b>			
27	14/9/2018	Reduction Formulae			
28	15/9/2018	Reduction Formulae			
	17-19/09/2018	<b>CAE-II</b>			
29	21/9/2018	Beta and Gamma functions,			
30	21/9/2018	Beta and Gamma functions,			
	24/9/2018	Tutoial-8			
31	25/9/2018	Differentiation Under Integral Sign			
	25/9/2018	<b>TAE-III</b>			
32	26/9/2018	Differentiation Under Integral Sign			
33	27/9/2018	Error Functions			
34	28/9/2018	Error Functions			

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		<b>Unit – VI : Solid Geometry</b>			
35	1/10/2018	Cartesian, Spherical, Polar and Cylindrical Co-ordinate Systems			
	1/10/2018	Tutoial-9			
36	3/10/2018	Sphere			
37	4/10/2018	Examples on Sphere			
38	4/10/2018	Cylinder			
39	5/10/2018	Examples Cylinder			
40	5/10/2018	Cone			