

TEACHING PLAN FOR THEORY

Subject: Engg Maths-I		Class: Div A	Year 2017-18
Lecture No.	Scheduled Date	Topics to be covered on the scheduled date	
		UNIT-I : Matrices	
1	17/07/2017	Basics of Matrix,	
2	19/07/2018	Rank of Matrix	
3	20/07/2019	Reduction methods Normal form,	
4	21/07/2020	Row Echelon form and PAQ form	
5	24/07/2021	System of Linear algebraic equations	
6	26/07/2022	homogeneous equations	
7	28/07/2023	Non-homogeneous equations with consistency	
8	31/07/2024	Non-homogeneous equations with inconsistency	
	08/02/2017	TAE-I	
		UNIT-II:Linear Algebra	
9	08/03/2017	Linear dependence and independence of vectors	
10	08/04/2017	Linear and Orthogonal Transformation	
11	08/09/2017	Eigen values, Eigen vectors(Symmetric Matrices)	
12	08/10/2017	Eigen values, Eigen vectors (Non Symmetric Matrices)	
13	08/11/2017	Cayley-Hamilton theorem	
14	14/8/2017	Revision	
	21/8/2017	CAE-I	
		UNIT-III : Differential Calculus and Expansion of Functions	
15	16/8/2017	Successive Differentiation	
	17/8/2017	TAE-II	

16	18/8/2017	Finding Nth Derivative by standard function
17	23/8/2017	trigonometrical transformation
18	24/8/2017	Partial fraction method
19	28/8/2017	Leibnitz's Theorem
	30/8/2017	TAE-IV
20	31/8/2017	Indeterminate Forms, L' Hospital's Rule,
21	09/01/2017	Taylor's Series and Maclaurine's series with standard expansion,
22	09/04/2017	differentiation and Integration, use of substitution
		UNIT-IV : Infinite Series
23	09/04/2017	Infinite Sequences, Infinite Series, Alternating Series
24	09/06/2017	Tests for Convergence by Cauchy's nth root test
25	09/07/2017	p test, comparison test, D'Alemberts Ratio test,
26	09/08/2017	Raabe's test, Leibnitz test,
27	09/11/2017	Absolute and Conditional Convergence
28	13/9/2017	Range of Convergence
	21/09/2017	CAE-II
		UNIT-V : Integral Calculus
29	14/9/2017	Reduction Formulae
30	15/9/2017	Reduction Formulae
31	18/9/2017	Beta and Gamma functions,
32	20/9/2017	Beta and Gamma functions,
33	22/9/2017	Differentiation Under Integral Sign
34	25/9/2017	Error Functions
35	27/9/2017	Revision
	28/9/2017	TAE-V
	10/11/2017	TAE-VII
		Unit – VI : Solid Geometry
36	29/9/2018	Cartesian, Spherical, Polar and Cylindrical Co-ordinate Systems

37	10/04/2017	Sphere,
38	10/05/2017	Examples for revision
39	10/06/2017	Cylinder
40	10/09/2017	Examples for revision
	10/11/2017	TAE-VII
41	10/12/2017	Cone
42	13/10/2017	Examples for revision
	23/10/2017	CAE-III