

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	18/10/13	D.E - Basic concepts	I (i)	C.R.		
2	19/10/13	D.E. of 1 st order & 1 st degree & Formation of D.E.	"	"		
3	21/10/13	Variable-separable method & Homogeneous eq ⁿ 's	"	"		
4	22/10/13	Exact D.E. method & problems	"	"		
5	23/10/13	To find I.F., Rules 1 & 2	"	"		
6	25/10/13	" " , Rules 3, 4 & 5	"	"		
7	26/10/13	Linear D.E. of order 1 & its problems	"	"		
8	28/10/13	Bernoulli's D.E. Problems	"	"		
9	29/10/13	Problems	"	"		
10	30/10/13	Newton's law of cooling problems	"	"		
11	31/10/13	Law of natural growth, problem	"	"		
12	1/11/13	" " " decay & its problems	"	"		
13	2/11/13	O.T. - Cartesian form	"	"		
14	4/11/13	Orthogonal trajectories - polar form.	"	"		
15	5/11/13	Linear D.E. of 2 nd & higher order - Introduction	II (i)	"		
16	6/11/13	Types of sol ⁿ , rules of y_c	"	"		
17	8/11/13	Problems	"	"		
18	9/11/13	Inverse D, rules for y_p	"	"		

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		If $R.H.S. = e^{ax}$				
19	15/11/13	Fdy, if $R.H.S. = \frac{\sin ax}{2 \cos ax}$	II	C.R.		
20	16/11/13	Fdy, $R.H.S. = x^m$	"	"		
21	18/11/13	Fdy, $R.H.S. = e^{ax} v(x)$	"	"		
22	22/11/13	Fdy, $R.H.S. = x v(x)$	"	"		
23	23/11/13	method of variation of parameters	"	"		
24	25/11/13	problems	"	"		
25	26/11/13	Applications - LCR circuits	"	"		
26	27/11/13	simple harmonic motion, partial differentiation, total derivative, chain rule	III (19)	"		
27	29/11/13	Generalized M.V.T (without proof)	"	"		
28	30/11/13	Taylor's, Mac laurine's series for 2 variables	"	"		
29	2/12/13	problems	"	"		
30	3/12/13	Functional dependence & Jacobian	"	"		
31	4/12/13	problems	"	"		
32	6/12/13	Maxima & minima	"	"		

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		rules (with out constraints)		C.R.		
33	7/12/13	problems	III	"		
34	9/12/13	maxima, minima rules (with constraints)	"	"		
35	10/12/13	problems	"	"		
36	11/12/13	curve tracing (basic concept)	IV (u)	"		
37	13/12/13	<u>Cartesian:</u> App. of Inte. to lengths	"	"		
38	14/12/13	problems	"	"		
39	16/12/13	App. of Inte. to volumes & surface area	"	"		
40	17/12/13	problems, polar form	"	"		
41	18/12/13	problems	"	"		
42	20/12/13	Multiple Integrals — Double integrals concept & examples	"	"		
43	21/12/13	problems	"	"		
44	23/12/13	Change of order of Inte.	"	"		
45	24/12/13	change of variable	"	"		
46	27/12/13	problems	"	"		
47	28/12/13	triple Integrals — change of variables	"	"		
48	30/12/13	problems	"	"		

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49	31/12/13	Application - moment of Inertia	IV	C.R.		
50	3/01/14	vector calculus - Grad divergence & curl	IV	"		
51	4/01/14	physical Interpretation & its problems	"	"		
52	6/01/14	problems	"	"		
53	7/01/14	Laplacian, and other operators	"	"		
54	8/01/14	vector identities	"	"		
55	10/01/14	vector Integration - line Integral	"	"		
56	17/01/14	Potential function, area, S.A, volume, work done.	"	"		
57	18/01/14	vector Integral thms	"	"		
58	20/01/14	Green's thm - problems	"	"		
59	21/01/14	Stokes thm - problems	"	"		
60	22/01/14	Gauss-Divergence thm	"	"		
61	24/01/14	work done & Force (Applications)	"	"		

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14/1/14