

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(1)	30/9	Differential equations of 1st order, 1st degree	I	CR		
(2)	1/10	variable separable method, Homogeneous eqn.				
(3)	3/10	Exact diff eqn method, problems				
(4)	4/10	Finding I.F, problems				
(5)	7/10	Problems				
(6)	8/10	Leibnitz's linear & Bernoulli's diff eqn.	II	"		
(7)	9/10	Problems				
(8)	10/10	Applications - Newton's law of cooling - problem				
(9)	11/10	Law of natural growth & decay				
(10)	14/10	Orthogonal trajectories - Cartesian form.				
(11)	15/10	Orthogonal trajec. - Polar form.				
(12)	17/10	Problems.				
(13)	18/10	Linear diff eqn of 2nd & higher order - Intro.				
(14)	21/10	Types of solution, Rules of $y_c$				
(15)	22/10	Problems				
(16)	23/10	Inverse D, rules for $y_p$ ; $R.H.S = e^{ax}$	III	"		
(17)	24/10	For $y_p$ , $R.H.S = \sin ax$ or $\cos ax$				
(18)	25/10	Problems				
(19)	28/10	For $y_p$ , $R.H.S = x^m$				
(20)	29/10	For $y_p$ , $R.H.S = e^{ax} \log x$				



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(21)	30/10	R.H.S = $xv(x)$ .	"	CR		
(22)	31/10	Method of variation of parameters	"	"		
(23)	1/11	Problems.	"	"		
(24)	4/11	Application - LCR Simple Harmonic motion	"	"		
2 (25)	5/11	Partial Differentiation Total derivative, chain rule	<u>III</u>	"		
(26)	6/11	Generalized Mean value theorem	"	"		
(27)	7/11	Taylor's and Mac Laurin's series for 2 variable	"	"		
(28)	8/11	Problems	"	"		
(29)	15/11	Functional dependence Independence, Jacoby	"	"		
(30)	16/11	Problems.	"	"		
(31)	17/11	Maxima, minima - rules. (without constraints)	"	"		
(32)	18/11	Problems.	"	"		
(33)	19/11	Maxima, Minima - rules. (with const. constraints)	"	"		
(34)	20/11	Problems	"	"		
(35)	21/11	Multiple Integrals Application of integrals to lengths	<u>IV</u>	PPT		
(36)	22/11	Problems.	"	PPT		
(37)	25/11	volumes and (Cartesian) Surface area	"	CR		
(38)	26/11	Problems.	"	"		
(39)	27/11	Problems.	"	"		
(40)	28/11	Polar form - problems.	"	"		



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Period	Date (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(41)	2/12	Double Integrals - Concept, examples	IV	CR		
(42)	3/12	Problems	"	"		
(43)	4/12	Change of order of integration	"	"		
(44)	5/12	Change of variables - prob	"	"		
(45)	9/12	Problems	"	"		
(46)	10/12	Triple Integrals - Change of variables	"	"		
(47)	11/12	Problems	"	"		
(48)	12/12	Application - Moment of Inertia	"	"		
(49)	16/12	vector calculus - Grad, divergence, curl	V	CR		
(50)	17/12	Physical interpretation & problems	"	"		
(51)	18/12	Problems	"	"		
(52)	23/12	Laplacian, 2nd order operators	"	"		
(53)	24/12	vector identities	"	"		
(54)	27/12	vector integration - Line integrals	"	"		
(55)	30/12	Potential function, area, S.A, volume	"	"		
(56)	31/12	vector integral theorems	"	"		
(57)	2/1	Problems	"	"		
(58)	3/1	Problems	"	"		
(59)	7/1	Problems	"	"		
(60)	8/1	Work done & Force problems	"	"		



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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
(61)	9/1	Problems	V	"		
(62)	10/1	Problems	"	"		
(63)	16/1	problems	"	"		
(64)	17/1	Tutorial	"	"		
(65)	18/1	Tutorial.	"	"		<del>5/1/13</del>