

# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	19/10	Introduction of D.E's types of D.E's, order, degree	I	C.R		
4	21/10	formation of D.E's	"	"		
3	22/10	Exact D.E's - procedure	"	"		
3	23/10	problems on exact D.E's	"	"		
3	24/10	problems on non-exact D.E's (method)	"	"		
1	26/10	problems on linear D.E's	"	"		
4	28/10	problems on Bernoulli eqn	"	"		
3	29/10	problems on orthogonal trajectories	"	"		
3	30/10	problems on newton's law of cooling	"	"		
3	31/10	problems on newton's law of cooling	"	"		
1	2/11	problems on natural growth and decay	"	"		
4	4/11	linear D.E's of higher order, symbolic form, notations	II	"		
3	5/11	Rules to find the C.F of $fy=0$	"	"		
3	6/11	P.I of type $e^{ax}$	"	"		
3	7/11	P.I of type $\sin ax$	"	"		
1	9/11	P.I of type $\cos ax$	"	"		
1	16/11	P.I of polynomials in x	"	"		
4	18/11	P.I of type $v(x)$	"	"		
3	19/11	P.I of type $x \cdot v(x)$	"	"		
3	20/11	problems on method of variation of parameters	"	"		



# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
3	21/11	problems on method of variation of parameters	"	C-R		
1	23/11	application of higher order I.D.E (LCR circuit)	"	"		
4	25/11	Simple Harmonic motion	"	"		
3	26/11	P.I of type $x^m \cos x$ , $m \neq -1$	"	"		
3	27/11	Function of several variables Total derivative, chain Rule	III	"		
3	28/11	problems on chain Rule, Total Derivatives	"	"		
1	30/11	problems on Jacobian, Functional dependence	"	"		
4	2/12	Generalized m.v Theorem. Taylor's Series	"	"		
3	3/12	Maclaurin's Series	"	"		
3	4/12	procedure for maximum and minimum	"	"		
3	5/12	problems on maxima minima of two variables	"	"		
1	7/12	Maxima & minima	"	"		
4	9/12	maxima & minima without constraints	"	"		
3	10/12	problems on maxima & minima	"	"		
3	11/12	Single integrals - problems	IV			
3	12/12	finding lengths by single integrals	"			
1	13/12	surface area, volume's by single integrals	"			
4	16/12	evaluation of Double integrals	"			
3	17/12	evaluation of Double integrals	"			
3	18/12	evaluation of triple integrals	"			



# LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
4	23/12	evaluation of double integral by change of variables	IV	C.R.		
3	24/12	change of variables	"	"		
3	26/12	change of order of integration	"	"		
1	28/12	change of order of integration	"	"		
4	30/12	surface area, volumes by revolution in cartesian to polar form	"	"		
3	31/12	application of multiple integrals	"	"		
3	1/1/14	introduction vector, scalar derivative of vectors	V	"		
3	2/1	Gradient, divergence, curl of vector - problem	"	"		
1	4/1	problem on angle b/w planes.	"	"		
4	6/1	problems on directional derivatives.	"	"		
3	7/1	Some vector identities	"	"		
3	8/1	Laplacian & 2nd order operators	"	"		
3	9/1	Work done, line integral, potential function	"	"		
1	16/1/14	Surface areas - Double integrals	"	"		
1	18/1	volumes integrals	"	"		
4	20/1	Green's theorem - problems	"	"		
3	21/1	Gauss divergence theorem -	"	"		
3	22/1	Stokes's theorem	"	"		
3	23/1	problems on vector integral theorems	"	"		
1	25/1	Revision class				