Lesson Plan Format
18 weeks (From January 2018 to April 2018)

Name of Assistant /Associate Professor : Suman Kumari
Class and Section : B.A./B.Sc. 1st (IInd Sem)
Subject : Mathematics
Paper – Ordinary Diff. Equation

Week 1(January 1-6)	
Chapter 1	
01/01/2018	Introduction to D.E, Exact D.E and Solution of Exact D.E (EX-1.1)
02/01/2018	Integrating Factor, Rules for finding I.F EX-1.2, 1.3,
03/01/2018	" " — do — EX-1.4, 1.5
04/01/2018	— do — EX-1.6, EX-1.7
05/01/2018	Equations of 1st order But not of 1st degree, Eqn solvable for p. EX-2.1
06/01/2017	Eqns solvable for y EX-2.2,
Week 2(January 8-13)	
Chapter	
08/01/2018	Eqns solvable for x EX-2.3
09/01/2018	Lagranges Equation EX-2.4
10/01/2018	Clairut's Equation - EX-2.4
11/01/2018	Equation reducible to clairut's form, EX-2.5
12/01/2018	Singular Solution EX-2.6
13/01/2018	Revision work for chapter-2.
Week 3(January 15-20)	
Chapter	
15/01/2018	Class Test of Chapter 1st.
16/01/2018	Introduction to orthogonal Trejectories
17/01/2018	Solution of EX-3.1
18/01/2018	— do — EX-3.1,
19/01/2018	Class Test.
19/01/2018	Introduction to linear diff. eqn with constant co-effs.
20/01/2018	EX-4.1
Week 4(January22-27)	
Chapter	
22/01/2018	Vasant Panchmi
23/01/2018	Meaning of Inverse operator, P.I in special cases EX-4.2
24/01/2018	Sir Chhotu Ram Jayanti
25/01/2018	EX-4.3
26/01/2018	Republic Day.

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27/01/2018	To evaluate $\frac{1}{f(D)} x^m$, m is +ve integer Ex-4.4
Week 5 (January29- Feb3)	
Chapter	
29/01/2018	Ex - 4.5
30/01/2018	Ex - 4.6 To Evaluate $\frac{1}{f(D)}(xV)$, V is any fun of x
31/01/2018	Problem Class.
01/02/2018	Revision of chapter - 4.
02/02/2018	Class Test.
03/02/2018	Introduction to Homogeneous Linear Equations.
Week 6(Feb 5-10)	
Chapter	
05/02/2018	Ex- 5.1
06/02/2018	Equation Reducible to Homog. linear form Ex-5.2
07/02/2018	—— do — Ex- 5.2
08/02/2018	Revision work.
09/02/2018	Problem Class.
10/02/2018	Maharshi Dayanand Sarasvati Jayanti
Week 7(Feb 12-17)	
Chapter	
12/02/2017	Linear Diff Eqn. of 2nd order and their Solution.
13/02/2017	Maha Shivratri
14/02/2017	Ex- 6.1
15/02/2017	Solution of L.D.E of 2nd order by removing 1st derivative and changing dependent variable
16/02/2017	Ex- 6.2
17/02/2017	Soln of L.D.E of 2nd order by changing the independent variable Ex-6.3
Week 8(Feb 19-24)	
Chapter	
19/02/2018	— Ex- 6.3 —
20/02/2018	Soln of L.D.E of 2nd order by method of Variation of Parameters.
21/02/2108	Ex- 6.4
22/02/2018	Soln of L.D.E of 2nd order by method of undetermined Coeff.
23/02/2018	— Ex- 6.5 —
24/02/2018	— Ex- 6.5 —
Week 9(Feb 26-March03)	
Chapter	
26/02/2018	Assignment.
27/02/2018	Class Test.
28/02/2018	Holi
01/03/2018	— do

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02/03/2018	—
03/03/2018	—
Week 10(March 5-10)	
Chapter	
05/03/2018	Class Test.
06/03/2018	Introduction to ordinary Simultaneous D.E
07/03/2018	Methods of Solving Simultaneous L.D.E with Constant Coeffs
08/03/2018	Ex-7.1
09/03/2018	— Ex-7.1
10/03/2018	Method for Solving $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$ Ex-7.2
Week 11(March 12-17)	
Chapter	
12/03/2018	Ex-7.3.
13/03/2018	Condn of Exactness + Methods of Solving Total D.E
14/03/2018	Assignment
15/03/2018	Revision.
16/03/2018	Problem class.
17/03/2018	— do —
Week 12(March 19-24)	
Chapter	
19/03/2018	Meaning of Total D.E, Nec & Suff Condn for Integrability of Total DE
20/03/2018	Ex-8.1
21/03/2018	— do —
22/03/2018	~~Class~~ Revision.
23/03/2018	Shaheedi Divas.
24/03/2018	Class Test.
Week 13(March 26-31)	
Chapter	
26/03/2018	Method regarding one variable as Constant out of 3 variables in $Pdx+Qdy+Rdz$
27/03/2018	Ex-8.2
28/03/2018	— do —
29/03/2018	Mahavir Jayanti
30/03/2018	Test.
31/03/2018	Method for Solving Homogeneous Eqn. Ex-8.3
Week 14(April 02-07)	
Chapter	
02/04/2018	Method of Auxiliary Equation E &
03/04/2018	Ex-8.4
04/04/2018	— do —

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05/04/2018	Revision.
06/04/2018	Problem class.
07/04/2018	Problem class.
Week 15(April 09-14)	
Chapter	
09/04/2018	Class Test.
10/04/2018	Assignment.
11/04/2018	Class Test.
12/04/2018	Class Test.
13/04/2018	Syllabus Completed.
14/04/2018	B.R. Ambedkar Jayanti
Week 16(April 16-21)	
Chapter	
16/04/2018	Revision of chapter - 1st
17/04/2018	do
18/04/2018	Parshuram Jayanti
19/04/2018	Revision of chapter - 2nd.
20/04/2018	do
21/04/2018	do
Week 17(April 23-28)	
Chapter	
23/04/2017	Revision of Chap - 3.
24/04/2017	Revision of chap - 4.
25/04/2017	Revision of chap - 5.
26/04/2017	Revision of Chap - 6.
27/04/2017	Revision of chap - 7
28/04/2018	Revision of chap - 8.
Week 18(April 29-30)	
Chapter	
30/04/2018	Class Test for whole Syllabus.

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