

Lesson Plan
Session 2019-20

Class: B.A, B.S.C (2nd sem)
Subject: Ordinary Differential & Laplace Equation (Maths)
Semester-2nd

Session 2019-20

Date	Lecture	Topic of Lecture
01.01.2020	1.	Syllabus Discussion
02.01.2020		Guru Gobind Singh Jayanti
03.01.2020	2.	Introduction to differential equation
04.01.2020	3.	Exact differential equation
05.01.2020		Sunday
06.01.2020	4.	Examples of 1.1 & 1.2
07.01.2020	5.	Integrating factor by inspection
08.01.2020	6.	Rules of finding integrated factor
09.01.2020	7.	Examples of 1.3 & 1.4
10.01.2020	8.	Exercise & discussion
11.01.2020	9.	Examples of 1.5 & 1.6
12.01.2020		Sunday
13.01.2020	10.	Problems discussions
14.01.2020	11.	complete chapter-1
15.01.2020	12.	Equation Solvable for P (Examples)
16.01.2020	13.	Equation solvable for Y.
17.01.2020	14.	Examples of 2.2
18.01.2020	15.	Equations solvable for X.
19.01.2020		Sunday
20.01.2020	16.	Lagrange's equations
21.01.2020	17.	examples of 2.3 & 2.4
22.01.2020	18.	Clairaut's equation
23.01.2020	19.	examples of 2.5
24.01.2020	20.	Singular Solution
25.01.2020	21.	Exercise questions
26.01.2020		Sunday/Republic Day
27.01.2020	22.	class test of ch 1-2
28.01.2020	23.	test questions discussion
29.01.2020	24.	Revision & (Assignment 1)
30.01.2020		Basant Panchmi/Shri Chhotu Ram Jayanti
31.01.2020	25.	CH-3 Orthogonal trajectory
01.02.2020	26.	Cartesian co-ordinates
02.02.2020		Sunday

03.02.2020	27	examples of ch-3.
04.02.2020	28	exercise 3-1.
05.02.2020	29	ch-4 linear differential equation
06.02.2020	30	with constant coefficients.
07.02.2020	31	Differential operator 'D'
08.02.2020	32	complete solution of diff eqn.
09.02.2020	Sunday/Guru Ravidas's Birthday	
10.02.2020	33	Auxiliary diff eqn. & complete
11.02.2020	34	examples of ch-4.
12.02.2020	35	exercise 4-1 solve
13.02.2020	Unit Test	
14.02.2020		
15.02.2020		
16.02.2020	Sunday	
17.02.2020	36	Discuss unit test
18.02.2020	37	Inverse operator Means
19.02.2020	38	example & Theorems of 4.2
20.02.2020	39	examples of 4.3.
21.02.2020	Maha Shivratri	
22.02.2020	40	example of 4.4
23.02.2020	Sunday	
24.02.2020	41	example of 4.5
25.02.2020	42	example of 4.6
26.02.2020	43	exercise problems discuss
27.02.2020	44	class discussions.
28.02.2020	45	chapter Revision
29.02.2020	46	Test on Monday
01.03.2020	Sunday	
02.03.2020	47	class Test ch-4.
03.03.2020	48	ch-5 Homog. linear Equation
04.03.2020	49	examples of 5.1
05.03.2020	50	examples of 5.2.
06.03.2020	51	exercise questions.
07.03.2020	52	Problem discussions.
08.03.2020	Holi Break	
09.03.2020		
10.03.2020		
11.03.2020		
12.03.2020		

13.03.2020		
14.03.2020		
15.03.2020		
16.03.2020	53.	(ch-6) linear diff. eq ⁿ of 2 nd order
17.03.2020	54.	method of finding part. integral
18.03.2020	55.	example of 6.1
19.03.2020	56.	example of 6.2
20.03.2020	57.	example of 6.3
21.03.2020	58.	method of variation of parameters
22.03.2020		Sunday
23.03.2020		Shahidi Diwas
24.03.2020	59.	Problem Discussion
25.03.2020	60.	example of 6.4
26.03.2020	61.	methods of undetermined coeff.
27.03.2020	62.	complementary functions
28.03.2020	63.	example of 6.5
29.03.2020		Sunday
30.03.2020	64.	Exercise Problem of ch-6.
31.03.2020	65.	(ch-7) ordinary simultaneous equation
01.04.2020	66.	L.D.F. with constant coefficient
02.04.2020		Ram Navmi
03.04.2020	67.	examples of 7.1 & Assignment-2
04.04.2020	68.	exercise 7.1 discussion
05.04.2020		Sunday
06.04.2020		Mahavir Jayanti
07.04.2020	69.	eq ⁿ of form $P_1 dx + Q_1 dy + R_1 dz = 0, P_2 dx + Q_2 dy + R_2 dz = 0$
08.04.2020	70.	Revision
09.04.2020	71.	method of solving $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$
10.04.2020	72.	example of 7.2
11.04.2020	73.	exercise 7.2 solve.
12.04.2020		Sunday
13.04.2020	74.	example of 7.3
14.04.2020		Dr. B.R. Ambedkar's Jayanti
15.04.2020	75.	exercise 7.3
16.04.2020	76.	upto all syllabus Revision
17.07.2020	77.	CH-7 (Test)
18.04.2020	78.	Revision
19.04.2020		Sunday
20.04.2020	79.	CH-8 Laplace Transforms.

21.04.2020	80.	Laplace Transf. of some elementary functions
22.04.2020	81.	example of 8.1
23.04.2020	82.	First shifting property examples
24.04.2020	83.	Piecewise continuity of function in interval
25.04.2020	84.	Function of exponential order
26.04.2020		Sunday
27.04.2020	85.	Second shifting theorem
28.04.2020	86.	examples of 8.3 & 8.4
29.04.2020	87.	Laplace eq ⁿ of transforms exercise
30.04.2020	88.	Revision