

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
PANIPAT**

DEPARTMENT OF APPLIED SCIENCES & HUMANITIES

**LESSON PLAN
(Even Sem 2022-22)**

Name: - Dr. Megha

**Subject Name: - Calculus and
Ordinary differential Equation**

Branch/Semester: -2nd Sem.

Subject Code:- BS -133A

Sr. No.	Lecture No.	Description of Topic	Lecture planned dates
1	L1	Basic of first order ordinary differential equations	03/03/22
2	L2 &3	Exact Differential Equation	04/3/22 & 07/3/22
4	L4	Solution of LDE of first order	08/3/22
5	L5	Bernoulli equation	09/3/22
6	L6 & L7	Equations Solvable for p any y	10/3/22 & 11/3/22
7	L8	Equations Solvable for x	14/3/22
8	L9	Clairaut's equation	15/3/22
9	L10, 11, 12	LDE of second order with constant coefficients	16/3/22, 17/3/22, 21/3/22 & 22/3/22
10	L13	Variation of parameter	23/3/22
11	L14 & L15	Cauchy and legendre Homogenous LDE	24/3/22 & 25/3/22
12	L 16 &17	Double integration	28/3/22 & 29/3/22
13	L-18& L-19	change the order of integration	30/3/22 & 31/3/22

14	L-20	Evaluate double integration in polar coordinates	01/4/22
15	L-21	Triple integration	4/4/22
16	L-22	change of variable	5/4/22
17	L-21, L-22	Area and volume by double or triple integral	6/4/22 & 7/4/22
18	L-23	Scalar and Vector point functions	8/4/22
19	L24	Directional Derivative	18/4/22
20	L25	Gradient	19/4/22
21	L26	Divergence	20/4/22
22	L27	Curl	21/4/22
23	L28	Line Integral	24/4/22
24	L29	Surface integral	25/4/22
25	L29	Green Theorem in plane	26/4/22
26	L30	Stokes therorem	27/4/22
27	L31	Guass Divergence theorem	28/4/22
28	L32	Basic of complex variable	01/5/22
29	L33	Exponential Functiom	02/5/22
30	L34	Trigonometric function	03/5/22
31	L35	Hyperbolic function	04/5/22
32	L36	Hyperbolic function	05/5/22
33	L37	Logarithmic Function	08/5/22
34	L38	Logarithmic Function	9/5/22
35	L39	Limit and continuity of complex functiom	10/5/22

36	L40	Analytic function	11/5/22
37	L41	CR Equations	12/5/22
38	L42	CR Equations	15/5/22 & 16/5/22
39	L43	Milne Thomson method	17/5/22
40	L44	Milne Thomson method	18/5/22 & 19/5/22
41	L45	Some theorems of complex	22/5/22
42	L46	Complex Integration	23/5/22
43	L47	Cauchy Integral Formula	24/5/22
44	L48	Cauchy Integral Formula	25/5/22
45	L49	Taylor's and Laurent Series	26/5/22
46	L50	Singularity and Residue theorem	29/5/22
47	L 51	Singularity and Residue theorem	30/5/22
48	L52	Revision	31/5/22
49	L-53	Revision	01/6/22
50	L54	Revision	02/6/22
51	L55	Revision	5/6/22
52	L56	Revision	6/6/22
53	L57	Revision	7/6/22
54	L58	Revision	8/6/22
55	L59	Revision	9/6/22
56	L60	Revision	12/6/22
57	L61	Revision	13/6/22

58	L62	Revision	14/6/22
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