

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**PANIPAT**  
**DEPARTMENT OF APPLIED SCIENCES & HUMANITIES**

**LESSON PLAN ( Section D)**

**Name: - Dr. Punit Jain**

**Subject Name: - Probability and Statistics**

**Branch/Semester: -2<sup>nd</sup> Sem.**

**Subject Code: - BS-134A**

<b>Sr. No.</b>	<b>Lecture No.</b>	<b>Description of Topic</b>	<b>Lecture plan date</b>	<b>TARGET OUTCOME</b>
1	L1	Classification, Tabulation and Frequency Distribution	28/03/22	Content Beyond the Syllabus
2	L2	<b>Unit 3: Basics Statistics</b> Mean and related problems on various methods Median, Mode and related problems	29/03/22	<b>CO4</b>
3	L3	Quartiles, Geometric mean and related problems	30/03/22	
4	L4	Harmonic mean, Range and Quartile Deviation	31/03/22	
5	L5	Mean Deviation and related problems	01/04/22	
6	L6	Standard Deviation and related problems	04/04/22	
7	L7	Moments	05/04/22	
8	L8	Coefficient of variation, Skewness and Kurtosis	06/04/22	
9	L9	Problems on coefficient of variation, Skewness and Kurtosis, Correlation, Coefficient of correlation	07/04/22	
10	L10	Correlation, Coefficient of correlation contt....	11/04/22	

11	L11	Correlation, Coefficient of correlation contt....	12/04/22	
12	L12	Problems on Correlation, Coefficient of correlation contt....	13/04/22	
13	L13	Rank correlation.	14/04/22	
<b>Ist Sessional from 05/05/2022 – 09/05/2022</b>				
14	L14	Introduction to Lines of regression	18/04/22	
15	L15	Lines of regression Contt.....	19/04/22	
16	L16	Lines of regression Contt.....	20/04/22	
17	<b>Test of Unit 3</b>		21/04/22	
18	L18	<b>Unit: 4 Applied Statistics : Curve fitting by the method of least squares: Fitting of a straight line Curve fitting by the method of least square</b>	25/04/22	<b>CO5</b>
19	L19	Fitting of second and Higher degree , Fitting of a geometric or power curve of the form $y=ax^b$	26/04/22	
20	L20	fitting of an exponential curve of the form $y = ab^x$  Problems on Curve fitting	27/04/22	
21	L21	<b>Basics of Sampling</b>	28/04/22	<b>Content Beyond the Syllabus</b>
22	L22	Introduction to Test of significance: Basic terminology :Test of significance: Basic terminology	02/05/22	
23	L23	Revision Lecture on Test of significance: Basic terminology	03/05/22	
24	L24	Large sample test for single proportion	04/05/22	

		difference of proportions		
Ist Sessional from 05/05/2022 – 09/05/2022				
25	L25	single mean, difference of means	11/05/22	
26	L26	Small samples test for single mean, difference of means	12/05/22	
27	L27	Small samples test for single mean, difference of means cont...	13/05/22	
28	L28	Chi-square test for goodness of fit	16/05/22	
29	L29	Chi-square test for goodness of fit cont..	17/05/22	
30	L30	Chi-square test for goodness of fit cont..	18/05/22	
31	L31	Problems on Chi-square test for goodness of fit	19/05/22	
32	L32	Elementary Probability	23/05/22	Content Beyond the Syllabus
33	L33	<b>Unit I: Basic Probability</b> : Introduction Additive law of probability	24/05/22	<b>CO1</b>
34	L34	Conditional Probability, Independent Events	25/05/22	
35	L35	Bayes' Theorem	26/05/22	
40	L40	Discrete random variables, probability distribution	30/05/22	
41	L41	Probability mass function and distribution function	31/05/22	
42	L42	Expectation, Moments	01/06/22	
43	L43	Variance of discrete random variables, Standard deviation of discrete random variables	02/06/22	<b>CO2</b>

44. 2 <sup>nd</sup> Sessional from 06/06/2021 – 08/06/2021				
45	L45	Continuous random variables, probability distribution	07/06/22	
46	L46	Probability density function and distribution function	08/06/22	
47	L47	Expectation and related problems, Moments and related problems	09/06/22	
48	L48	Variance of Continuous random variables & related problem	13/06/22	
49	L49	Standard deviation of Continuous random variables	14/06/22	
50	L50	Problems related to Standard deviation of Continuous random variables	15/06/22	
51	L51	Binomial Distribution, - evaluation of statistical parameters for the distributions cont..	16/06/22	<b>CO3</b>
52	L52	Introduction to Poisson Distribution, -	20/06/22	
53	L53	Poisson Distribution, - evaluation of statistical parameters for the distributions	21/06/22	
54	L54	Problems related to Poisson Distribution.	22/06/22	
55	L55	Introduction to Normal Distribution	23/06/22	
56	L56	Normal Distribution cont..	27/06/22	
57	L57	Normal Distribution, - problems	28/06/22	
58	L58	Overview of Unit I	29/06/22	
59	L59	Overview of Unit II	30/06/22	
3 <sup>rd</sup> Sessional from 04/07/2022 – 06/07/2022				

Subject In charge