

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY  
PANIPAT**

**Department of Management Studies**

Semester: Ist

Course Title: Statistics and Analytics for Decision Making

Course No. MBA-106

**MBA-106: Statistics and Analytics for Decision Making**

S.no.	L.no.	Topic to be covered	Target Outcome
1	L1	Introduction to Subject	All
2	L2	Basic Concepts of Probability	CO1
3	L3	Approaches of Probability	CO1
4	L4	Theorem of Probability	CO1
5	L5	Addition theorem	CO1
6	L6	Addition Theorem	CO1
7	L7	Multiplication Theorem	CO1
8	L8	Multiplication theorem	CO1
9	L9	Conditional Theorem	CO1
10	L10	Bayes Theorem	CO1
11	L11	Activity related to probability	CO1
12	L12	Binomial Distribution	CO1
13	L13	Poission Distribution	CO1
14	L14	Normal Distribution	CO1
15	L15	Sampling Methods	CO2
16	L16	Sampling Distribution	CO2
17	L17	Activity related to Correlation	CO3
18	L18	Hypothesis Testing	CO3
19	L19	Basic Concepts of Hypothesis	CO3
20	L20	Application of Z-test	CO3
21	L21	Application of Z-test	CO3
22	L22	t-test -Basic Concepts	CO3
23	L23	Application of t-test	CO3
24	L24	Application of t-test	CO3
25	L25	Case Study :- Selective Hypothesis Testing	CO3
26	L26	SOT 1	CO1& CO2
27	L27	Statistical Estimation Theory	CO3
28	L28	Chi-square Test	CO4
29	L29	Application of Chi-square test	CO4
30	L30	Application of Chi-square test	CO4
31	L31	Sign Test	CO4
32	L32	Wilcoxon sign test	CO4
33	L33	Kruskal Wallis Test	CO4

S.no.	L.no.	Topic to be covered	Target Outcome
34	L34	Parametric Vs Non parametric	CO4
35	L35	Case Study Choosing between Parametric and Non Parametric test	CO3 & CO4
36	L36	MS EXCEL	CO4
37	L37	MS EXCEL	CO4
38	L38	SPSS	CO4
39	L39	SPSS	CO4
40	L40	SOT 2	CO3 & CO4