Course Type	Course Code	Name of Course	L	T	P	Credit
DP	**NMCC506**	Statistics in decision Makings Lab	0	0	3	1.5

Course Objective
• To train the students on applications of various statistical tests in decision making problems.

Learning Outcomes
• After completion the experiments, students will be well equipped to identify the real-life problems where the various estimation techniques and statistical tests could be applied for getting the meaningful results.

Unit No.	Topics to be Covered	Contact Hours	Learning Outcome
1	Experiment: Based on cleaning of data and to identify outliers.	3	Gives an idea about consistency of data.
2	Experiments: Based on generating estimates using various methods of estimation	6	Gives an idea about the precise estimates produced by various methods of estimation.
3	Experiments: Based on Statistical Tests.	12	Students will be familiar about the practical situations where and how the various statistical tests will be applicable.
4	Experiments: Based on Non-Parametric Tests	6	Students will be acquainted about the application of non-parametric tests.
5	Experiments: Based on ANOVA, CRD, RBD and LSD	12	Students will know the techniques of applying the ANOVA and some basic Design of experiments in real life problems.
6.	Practice and Review	03	
	Total	**42**	

Text Books:
1. Fundamentals of Mathematical Statistics by Gupta S.C. and Kapoor V. K., Sultan Chand & Sons.
2. Fundamentals of Applied Statistics by Gupta S.C. and Kapoor V. K., Sultan Chand & Sons.

Reference Books:
1. An Introduction to Probability Theory and Mathematical Statistics, by Rohatgi V. K. and Saleh, John Wiley.
2. Introduction to the Theory of Statistics by Mood M., Graybill F. A. and Boes D. C., Tata McGraw-Hill.