17HS027 Statistical Methods Lab

After the completion of the course, the student will be able to achieve the following outcomes:

COs	Outcomes
1	Identify the existence of correlation in the given data
2	Using regression, predict the future values of the variables
3	Fit an appropriate curve for the given data
4	Identify appropriate significance test for the given data
5	Apply significance tests to industrial and research data

SKILLS

- ✓ Carryout the correlation and regression analysis for industrial and research data
- ✓ Fit appropriate curves to the given data and predict the future values of the variables using tools
- ✓ Apply different significant tests to test the measures of the sample data

Conduct the following:

1. Fitting of straight line.
2. Fitting of exponential curves.
3. Fitting of power curve.
4. Computation of correlation coefficient & Fitting of Regression lines.
5. Rank correlation coefficient.
6. Computation of Contingency coefficients.

    MS-Excel methods any for the Serial Numbers 1,2,4,5.

Text books

1. BA/BSc II year statistics - statistical methods and inference - Telugu Academy by A. Mohanrao, N.Srinivasa Rao, Dr R.Sudhakar Reddy, Dr T.C. Ravichandra Kum.