#*#17th November 2018*

One Day Workshop on

"Introduction of Statistical Techniques and Tools For Agricultural Engineers"

Organized by
Department of Basic Engineering and Applied Sciences
College of Agricultural Engineering and Technology
Anand Agricultural University
Dholakuva, Godhra

OBJECTIVES OF THE WORKSHOP

The objective of this program is to educate the participants about the statistical techniques and give them an exposure to basic and advanced methods/tools of statistical computing useful in the field of Agricultural Engineering and allied Research.

BENEFIT TO PARTICIPANTS

The participants will be better able to determine the type of analytical work to undertake and to read research papers. They will also acquire familiarity with SAS results.

TARGET POPULATION

Students, Faculty and staff with basic knowledge of mathematics and statistics who are called upon to solve problems of data exploration and analysis.

COURSE CONTENT

1. Basics of statistical analysis.
2. Applications of Statistics in the field of agriculture engineering.
3. Descriptive and Inferential statistics.
4. Cross section and time series data analysis.
5. Various Parameters of Statistics: Mean Median, Mode, Variance, Standard deviation, Correlation function etc.
6. Microsoft Excel tools: Calculation of mean, median, mode, variance, correlation and plotting of various graph and histogram.
7. Probability theory: Random Variables, Discrete and Continuous variables, Probability density function, and Cumulative distribution function.
8. Introduction to non-Linear models
9. Various distribution function: Uniform, Gaussian (Normal), Exponential, Binomial.
10. Using MATLAB plot all the distribution function and calculate all the parameters.
11. Hypothesis testing.

INAUGURAL SESSION

On 17th November 2018, the proceedings began with inauguration ceremony, with the esteemed presence of Dr.R.Subbaiah, Principal & Dean, Er.Kapil Mandloi, HOD of Basic Engineering and Applied Sciences (B.E.A.S) Department & Dr. Darshankumar C. Dalwadi, Expert of various tools of statistical techniques. Er.Kapil Mandloi, HOD (B.E.A.S) delivered welcome speech and Expert of the day shared his greetings and briefed about the agenda for the day. Principal & Dean gave his opening remarks and highlighted the need of the workshop and role of Statistical Techniques and Tools for data analysis and interpretation in industry and academia. Later, Prof.Sachin Chinchorkar, Asst. Professor offered vote of thanks for the inaugural session.

TRAINING SESSION

Training session started at 10:00 AM and continued till 4:30 PM with a lunch break of 30 Minutes in between. The entire session was very live and students showed a lot of enthusiasm for learning/improving the skill in the MATLAB. The same were acknowledged by the students through their feed backs.

GLIMPSES OF THE WORKSHOP

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