



Faculty of Management - RKDF University
Gandhi Nagar Bhopal

Value Added Course
On
Basic Tools of Statistics (MBAVAC004)

Description

Statistical methods are essential for any types of research. In fact, statistical methods dominate the scientific research as they include planning, designing, collecting data, analyzing, drawing meaningful interpretation and reporting of research findings. Furthermore, the results acquired from research project are meaningless raw data unless analyzed with statistical tools. Therefore, determining **statistics in research** is of utmost necessity to justify research findings. Statistics is a branch of science that deals with collection, organization and analysis of data from the sample to the whole population. Moreover, it aids in designing a study more meticulously and also gives a logical reasoning in concluding the hypothesis.

Objectives of the Courses:

Analysis of Data through Statistical tools has become one of the significant challenges to the researcher because of its awareness. Now days various awareness courses has introduced in order to increase knowledge about various application for use of statistics in research. Various objectives of this value added course are as under

1. To provide knowledge about various applications of Statistic may be used in Research

2. Explore and describe the basis as well as comprehensive understanding about various methods and Tools of statistics
3. Provide valuable knowledge in order to identify applicable tools for research
4. Make students and researcher prepare about use of various tools of statistics to analysis of RAW data
5. Provide information about testing of hypothesis by using tools and formulas of statistics

Benefits of Course

Various Benefits of the Courses are as under

1. measure things
2. Examinee Relationship
3. Make Predictions
4. test hypotheses
5. Construct concepts and develop theories
6. Describe what is happening;
7. Make comparisons to find similarities and differences

Duration of Course

Course duration will be of 30 lectures and after the completion of all the 30 lectures university will conduct exam as per syllabus and schemes and every qualified student will be awarded a certificate.

Classification of Course

Classification of course will be based on certain Modules each module will take minimum 6 days. In this value added course five different modules will be taught which are based on different parameters of Stock Market.

Schemes of Value Added Course

Use of Statistics in Research

Syllabus

Maximum Marks: 150

Minimum Marks: 60

Module 1- Introduction to statistics: Introduction to Statistics, Frequency distribution, Graphical representation of data, measure of central tendency, various methods for central tendency such as Mean, Median and Mode,

Module-2 Descriptive analysis: collections of data, Data Collection Techniques, Quartile deviation. Mean Deviation, Standard Deviation, coefficient of variance

Module-3 Analysis: various applications of Correlation Coefficient, Regression and Rank Correlation, Time series, Forecasting

Module-4: Testing of Hypothesis: Various technique of sampling, Null hypothesis and alternative hypothesis, t-test, Chai Square test, ANOVA test, Implementation of these test in research,

Schemes of Examination

S.No	Types		Marks Allocated	Total Marks
1	Objective	10	1	10
2	Short Answer	5	6	30
3	Long Answer	4	15	60
4	Project			50
Total Marks				150

Reference

1. Gupta, S.P. and Gupta M.P. "Business Statistics". New Delhi, Sultan Chand, 1997.
2. Levin Richard I and Rubin David S. "Statistics for Management". New Jersey, Prentice Hall Inc., 1995.

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