

VALUE ADDED COURSE

Course Code: FMSVAC104

Course Title: SPSS (Statistical Package for Social Science)

Total Hours: 32

Course Outcome:

- I. Recall fundamental statistical concepts and the basic functionality of SPSS software. Identify key features and tools available in SPSS for data entry, manipulation, and statistical analysis.
- II. Explain the purpose and application of descriptive and inferential statistics within the SPSS environment. Interpret output from SPSS such as tables, charts, and statistical test results.
- III. Utilize SPSS to organize and preprocess datasets, including data cleaning, transformation, and coding. Apply appropriate statistical tests (e.g., t-tests, ANOVA, regression) to real-world data using SPSS.
- IV. Differentiate between various types of statistical tests and select the appropriate one for a given research problem. Analyze the relationships and patterns within data using advanced SPSS techniques, such as factor analysis and correlation.
- V. Critically evaluate statistical output from SPSS to determine the significance and reliability of the results. Justify the use of specific statistical methods and SPSS procedures for solving different research problems.

Course outline of SPSS

Unit-1

8 Hours

1.1 Basics of statistics used in data analysis

1.2 Data Handling in SPSS, Variable and its measurement, Nominal, Ordinal, Interval and Ratio Scale

Unit-28 Hours

2.1 Normality test and Outliers

2.2 Reliability Analysis

2.3 Factor Analysis


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Unit-38 Hours

- 3.1 Parametric Test – One sample t-test, Two independent sample t-test, paired sample t-test, ANOVA.
- 3.2 Non-Parametric Test -Chi square test, Mann Whitney U-Test, Wilcoxon signed rank Test, Kruskal-Wallis Test, Friedman test.

Unit-48 Hours

- 4.1 Correlation analysis
- 4.2 Regression Analysis
- 4.3 Mediation Analysis
- 4.4 Moderation Analysis


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