18CMJ001   Data Analysis Techniques for Quantitative Research   0 0 2   1

Course Outcome: *By the end of the course the students will be able to:*

1. Demonstrate an understanding of steps of data entry and analysis using SPSS software
2. Demonstrate a working knowledge of coding plans and data sets
3. Describe the nature of variables and manage data
4. Analysis the data relationship using correlation and other measures
5. Present data using SPSS generated graphs and summary statistics

UNIT 1
Loading and Saving Data Files: Introduction and Overview. Starting SPSS, Entering Data, Defining Variables

UNIT 2
 Running initial data analysis: Examining Output Files, Modifying /Transformation of Data.

UNIT 3
 Descriptive Statistics: Frequency Distributions, Measures of Central Tendency and Measures of Dispersion. Graphing Basics. Reliability (Inter item correlation)

UNIT 4
Prediction and Association: Parametric and non-parametric tests- Pearson Correlation Coefficient, Cronbach's alpha, Chi square, t Test, ANOVA , Mann-Whitney U Test, Kruskal-Wallis H Test

UNIT 5
Exploratory factor analysis, Simple and multiple Linear Regression, Path analysis, Structural Equation Modelling with AMOS

References

1. Field, A. (2005). *Discovering statistics using SPSS* (2nd ed.). London: SAGE.
2. SPSS for Dummies – available at http://www.biometrica.tomsk.ru/lib/spss_dumm.pdf

18CMJ002   **Data Analysis Techniques for Qualitative Research0 0 2   1**

Course Outcome: *By the end of the course the students will be able to:*

1. Collect, organize and publish data into both qualitative, quantitative and mixed methods.
2. Analyze, visualize and triangulate their research and develop better understanding on the methodology.
3. Interpret the data and build the relationship among the variables in a better way.
4. Bring an organized and structured approach to analysis.
5. Be more efficient researcher.

UNIT 1:
Introduction: Getting Familiar with MAXQDA Interface Learning to Import and Organize Data in MAXQDA

UNIT 2:
Doing Transcription in MAXQDA

UNIT 3:
Reasons of using MAXQDA and How to use it

UNIT 4:
Basics of Coding in MAXQDA

UNIT 5:
Visualization of Data in MAXQDA