JASP

NATIONAL LEVEL ONLINE - WORKSHOP
ON
JASP for Social Science Research: Data Analysis Simplified

Organized by
MITHRA DEV PUBLICATIONS
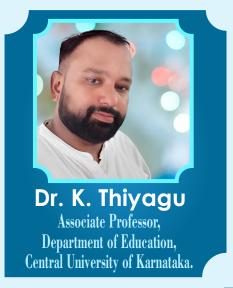Sivakasi, Tamil Nadu, India.

In Collaboration with
CENTRE FOR EDUCATIONAL RESEARCH
Madurai Kamaraj University,
Palkalai Nagar, Madurai.
&

THIAGARAJAR COLLEGE OF PRECEPTORS (Aided)
Madurai.

Resource Person

Dr. K. Thiyagu
Associate Professor,
Department of Education,
Central University of Karnataka.

Date: 11th to 14th March, 2025
Time: 6.30 P.M. - 8.30 P.M.

Mode of Platform 📹 **Zoom**

Registration Fees **Rs.399**

CONVENER

Dr. R. Annadurai,
Director i/c,
Centre for Educational Research,
Madurai Kamaraj University, Madurai.

Dr. S. Prakash,
Principal,
Thiagarajar College of Preceptors (Aided),
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REGISTER NOW:

PROGRAMME SCHEDULE

Day 1: 11th March, 2025 — 6:30 PM - 8:30 PM — Session Plan

Introduction to JASP & Descriptive Statistics

1. Introduction to JASP
- Overview of JASP
- Downloading and Installing JASP
- Exploring the JASP Interface (Menus, Data View, Output Panel)

2. Importing & Managing Data
- Loading datasets (CSV, Excel, SPSS, etc.)
- Data Cleaning & Formatting
- Understanding Variables and Measurement Levels

3. Descriptive Statistics & Visualization
- Measures of Central Tendency (Mean, Median, Mode)
- Measures of Dispersion (Variance, Standard Deviation, Range)
- Data Visualization (Histograms, Boxplots)

4. Hands-on Practice & Q&A

Day 2: 12th March, 2025 — 6:30 PM - 8:30 PM — Session Plan

Hypothesis Testing – t-Test & ANOVA

1. Introduction to Hypothesis Testing
- Null vs. Alternative Hypothesis
- Understanding p-values & significance levels

2. t-Test in JASP
- One-sample t-test
- Independent t-test
- Paired t-test

3. ANOVA in JASP
- One-way ANOVA
- Post-hoc comparisons (Tukey's HSD, Bonferroni)
- Checking Assumptions (Homogeneity of Variance, Normality)

4. Hands-on Practice & Q&A

Day 3: 13th March, 2025 — 6:30 PM - 8:30 PM — Session Plan

ANCOVA, Correlation & Regression

1. Analysis of Covariance (ANCOVA)
- Concept of ANCOVA
- Performing ANCOVA in JASP
- Interpreting results

2. Correlation Analysis
- Pearson, Spearman, and Kendall correlations
- Scatter plot Matrix
- Interpreting correlation coefficients

3. Regression Analysis
- Simple Linear Regression
- Multiple Regression
- Model Assumptions

4. Hands-on Practice & Q&A

Day 4: 14th March, 2025 — 6:30 PM - 8:30 PM — Session Plan

Factor Analysis

1. Factor Analysis of Covariance
- Exploratory Factor Analysis (EFA)
- Principal Component Analysis (PCA)
- Extracting & Interpreting Factors

2. Final Hands-on Project
- Analyzing a real-world data set using learned
- Discussion on insights

3. Wrap-up & Q&A

WORKSHOP GUIDELINES

- We will provide **JASP software** upon registration for this workshop. You can install it before the workshop.
- A desktop or laptop is required to attend.
- A basic understanding of statistical concepts is recommended.
- Interactive sessions will include hands-on practice, so please ensure access to the required datasets (shared in advance).

  Certificates will be provided upon completion of the workshop.

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