A One-Day Online Workshop on

Development Analytics

STATISTICAL AND MULTIVARIATE ANALYSIS USING JAMOVI

AN OPEN-SOURCE SOFTWARE

Madras Institute of Development Studies

7 FEBRUARY 2026 10 AM-4 PM, ZOOM

SCOPE

The workshop will cover both conceptual foundations and hands-on applications of multivariate analysis using Jamovi software. Participants will:

- Gain hands-on experience in statistical and multivariate analysis using Jamovi.
- Build confidence in data analysis without the need for programming skills.
- Develop skills to perform and interpret advanced analyses (ANOVA, regression, EFA, CFA).
- Understand effect sizes, model fit indices, and assumptions clearly.
- Produce publication-ready tables and outputs for theses and journal articles.
- Apply learned methods directly to own research data.

WHO IS THIS FOR

- UG, PG students, PhD scholars and Post-Doctoral Fellows
- Faculty and early-career researchers
- Research professionals engaged in empirical studies, data analytics, etc.
- Those seeking a cost-free alternative to paid statistical software

SCAN QR TO REGISTER

REGISTRATION LINK

https://forms.gle/xLH42iTVQp9JK4XL7

REGISTRATION FEE

- Rs. 200 for students
- Rs. 300 for others

PAYMENT DETAILS

Account Name	Madras Institute of Development Studies
Bank Name	Indian Bank
A/c no.	7141704392
IFSC	IDIB000A002
Branch	Gandhi Nagar, Adyar, Chennai
UPI	mids@indianbk

LAST DATE TO REGISTER

5 February 2026, 5 PM

FOR ENQUIRIES, WRITE TO

developmentanalytics@mids.ac.in

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BACKGROUND

Jamovi is increasingly becoming the preferred statistical software for teaching and applied research. Its intuitive, menu-driven interface allows users to perform sophisticated statistical analyses without any programming knowledge, significantly reducing statistics anxiety and improving analytical confidence. One of Jamovi's greatest strengths is that it is completely free and open-source, enabling students and researchers to use it for dissertations and publications. This makes it especially valuable for PG, PhD scholars, and faculty who do not have access to proprietary software such as SPSS, AMOS, or Mplus. Beyond basic statistics, Jamovi now provides advanced multivariate and psychometric analysis tools, including Exploratory Factor Analysis (EFA) and Confirmatory Factor Analysis (CFA) through built-in modules such as Factor and SEM (Lavaan). These tools allow researchers to develop, validate, and test measurement scales—an essential modern requirement in research.

Participants will learn how to assess construct validity, factor loadings, model fit indices, and reliability using professional-grade methods. Jamovi also supports modern research standards by automatically reporting effect sizes, confidence intervals, assumption checks, reliability (Cronbach's alpha), factor loadings, and fit indices in clean, publication-ready tables, making it an ideal platform for guiding students from raw data to journal-ready outputs. Overall, Jamovi uniquely combines ease of use, advanced statistical capability, and zero cost, making it a powerful platform for both foundational statistics, scale validation, and structural analysis.

RESOURCE PERSON

K RASHEED

Assistant Professor, Department of Management and Business Administration, Aliah University, Kolkata

LEARN FROM EXPERIENCED ACADEMICIANS AND PROFESSIONALS WITH EXPERTISE IN DATA ANALYSIS

OBJECTIVES

- Strengthen participants' understanding of core statistical concepts and their research applications.
- Provide hands-on training in Jamovi for data analysis without programming.
- Enable participants to perform and interpret hypothesis tests, ANOVA, regression, EFA, and CFA.
- Improve skills in reporting statistically sound and publication-ready results

COVERAGE

- Foundations of Statistics and Jamovi
- Descriptive Statistics and Group Comparisons
- ANOVA, Non-Parametric Tests and EFA
- Introduction to scale development
- Correlation, Regression and CFA
- CFA using SEM module

EXPECTED OUTCOMES

After successful completion of the workshop, participants will:

- Independently conduct statistical and multivariate analysis using Jamovi
- Interpret results using effect sizes, confidence intervals, and model fit indices
- Develop and validate measurement scales using EFA and CFA
- Produce analysis outputs suitable for theses, dissertations, and journal publications

SOFTWARE REQUIREMENTS

- Jamovi must be installed prior
- Zoom for online participation

ORGANIZING TEAM

M Umanath, Assistant Professor, MIDS
K Jafar, Assistant Professor, MIDS
K Hafsal, Assistant Professor, MIDS