

**National Level**

# **Hands-On Training Workshop on Cross-Sectional Data Analysis Using SPSS & Jamovi**

Jointly Organised by

**Department of Economics**



**St. Aloysius College**

Elthuruth, Thrissur, Kerala - 680 611, India

Affiliated to the University of Calicut & Aided by the Govt. of Kerala  
Reaccredited by NAAC in the Third Cycle with Grade B++  
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**&**

**C. Achuthamenon Study and Research Centre  
COSTFORD Ayyanthole.**

**Duration: 4 Days**

**Date: 20-24<sup>th</sup> May 2024**

**Time: 10 am to 4.00 pm**

**Venue: COSTFORD, Thrissur, Kerala**

## Targeted Participants

Research scholars and faculty from social science disciplines including commerce and management.

## About the Workshop

Tailored for research scholars and faculty from social science backgrounds, this hands-on training experience provides participants with practical skills and knowledge essential for data analysis. Delve into key modules covering inferential statistics, data analysis software, descriptive statistics, categorical data analysis, equality tests, correlation and regression analysis, factorial ANOVA, and factor analysis. Led by experienced instructors, this workshop offers a unique opportunity to gain proficiency in data analysis techniques and software tools, empowering participants to conduct rigorous research and make data-driven decisions.

## Workshop Requirements, Benefits, and Highlights

- The minimum requirement is basic computing knowledge; there is no need to be an expert in quantitative techniques, statistics, or econometrics.
- Scholars interested in empirical research utilising various quantitative and econometric methods will benefit from this.
- Comprehensive coverage of essential topics in cross-sectional data analysis.
- Hands-on training experience using both open-source and proprietary data manipulation software.
- Practical exercises and real-world case studies to reinforce learning.

## Modules Covered

### Module 1: Basic of Inferential Statistics

Populations and Samples, Sampling Procedures, Hypothesis Testing, Parametric Statistical Tests, Nonparametric Statistical Tests, Data Tests of Significance, Practical Significance versus Statistical Significance, One- and Two-Tailed Tests. Degrees of Freedom, Levels of Measurement.

### Module 2: Introduction to Data Analysing Software

Introduction to Statistical Packages, Entering Variables and Data and Validating Data (Working with Data and Variables), Data Cleaning.

### Module 3: Reports and Descriptive Statistics

Basic Descriptive Statistics, PP Plots and QQ Plots and Conduct the one-sample Kolmogorov Smirnov test, Shapiro Wilk test, Cross Tabs.

## Module 4: Categorical data analysis

$\chi^2$  (Chi-Square) goodness-of-fit test,  $\chi^2$  test of independence, continuity correct.

## Module 4: Tests of Equality

One-Sample Test and a Binomial Test of Equality, Independent-Samples t Test and Mann Whitney U Test, Paired-Samples Test and Wilcoxon Test, One-Way ANOVA and Kruskal Wallis Test, Post Hoc Tests (Turkey HSD, LSD, Scheffe, Dunnett), One-Way ANOVA (unequal sample size and variance).

## Module 5: Introduction to Correlation and Regression Analysis

Bivariate Analysis (Pearson and Spearman) Single and Multiple Linear Regression.

## Module:7 Factor Analysis

Exploratory Factor Analysis, Principal Component Analysis, Confirmatory, Factor Analysis, Multi-Trait Multi-Method CFA Internal consistency reliability.

## Registration and Fees

The program is limited to 25 participants, who will be selected on a first-come-first-served basis. Completed registrations must be submitted on or before 15/05/2024. Interested candidates can apply online using the provided link or by scanning the QR Code. Please note that the fee, once remitted, will not be refunded.

## Fee structure

Faculty (Permanent) - Rs. 3500, Faculty (Ad hoc /Guest)- Rs 2500, Research Scholars - Rs. 2000.

## Duty Certificate

A duty certificate will be issued to participants who attend all sessions.

### Fee Payment



UPI ID: melvinlukegeorge-2@oksbi

### Registration



### Location



## Resource Person

### Dr Jins Varkey

He is an assistant professor of economics at St. Aloysius College, Thrissur, specialising in cross-sectional data analysis. With a decade of academic and practical experience, he has provided consultancy for over 40 research projects and served as a resource person for 70+ international, national, and regional workshops on data analysis, econometrics, and research methods. His proficiency extends to various data-manipulating software, including SPSS, JAMOVİ, and Gretel, among others.

## Organising Committee

**Dr Chacko Jose Principal, SACT**

**Dr MN Sudhakaran (Director ,COSTFORD)**

**Ms. Fiji Raphael (HoD, Economics, SACT)**

**Dr Libison KB (IQAC Coordinator, SACT)**

**Dr Cyril George , Asst. Prof. Economics, SACT.**

**Contact us: Mob: 9497356549, 9605704308**