



Organising Committee

Prof (Dr) K N Harilal, President, KEA
Santhosh T Varghese, General Secretary, KEA
Prof (Dr) Godwin S K, Treasurer, KEA
Siddik R, Co-ordinator, KEA Thiruvananthapuram chapter
Dr Aparna P, Kollam District Co-ordinator, KEA
Kalyani Shanker, Thiruvananthapuram District
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Contact

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Registration Details

UG/PG Students - ₹1000

PhD Scholars/KEA Members - ₹2000

Others - ₹3000

📅 **Deadline of application : 10 August 2025**

📧 **Communication of selection : 12 August 2025**

Register Here

<https://forms.gle/KRtGkP5ebndqNXuX8>

Payment Info

A/C: Kerala Economic Association

Bank: Canara Bank, TVM Cantonment

A/C No: 0819101097488 | IFSC: CNRB0000819

UPI: keralaecoassn@cnrb

⚠️ **Limited Accommodation is available for
selected participants at University Guest House
at subsidised rates**

Kerala Economic Association
in collaboration with
Inter University Centre for
Alternative Economics,
University of Kerala



Five-Day Hands-on
Workshop on

R Software and R Studio for
Data Analysis



Aug 25 - 29th, 2025



University of Kerala,
Kariavattom campus
Thiruvananthapuram



Resource Person: Nithin M,
Kerala Agriculture University,
Thrissur

Day 1 – R & RStudio: The Foundation

🕒 09:30–10:30 – Introduction to R

- R ecosystem, RStudio IDE, console vs script

🕒 10:45–12:15 – R Syntax Basics

- Variables, types, expressions, conditionals, functions

📅 01:15–02:45 – Vectors, Lists, Factors

🕒 03:00–04:30 – Data Frames & Tibbles

- Importing CSV, readr package

🔧 Hands-On: Create & explore dataset

Day 2 – Data Manipulation with tidyverse

🕒 09:30–10:30 – Introduction to tidyverse

- Loading dplyr, tidyr, tibble, readr

🕒 10:45–12:15 – Data Wrangling with dplyr

- filter(), mutate(), group_by()

📅 01:15–02:45 – Reshaping with tidyr

- pivot_longer(), separate(), unite()

🕒 03:00–04:30 – Data Cleaning

- NA handling, type conversion, outlier detection

🔧 Hands-On: Transform messy real-world data

Day 3 – Data Visualization with ggplot2

🕒 09:30–10:30 – Grammar of Graphics

- Aesthetics, geometries, layering

🕒 10:45–12:15 – Basic Plots

- Bar chart, histogram, scatterplot

📅 01:15–02:45 – Plot Customization

- Themes, labels, faceting

🕒 03:00–04:30 – Exporting Plots

- Save in PNG/PDF, insert in reports

🔧 Hands-On: Visualize NSSO/PLFS data

Day 4 – Statistical Analysis in R

🕒 09:30–10:30 – Descriptive Statistics

- summary(), table(), freq. tables

🕒 10:45–12:15 – Hypothesis Testing

- t-test, chi-square, correlation, ANOVA

📅 01:15–02:45 – Regression Analysis

- Linear models, diagnostics

🕒 03:00–04:30 – Survey Data Analysis

- Using survey package, weights

🔧 Hands-On: Gender-wage gap model

Day 5 – Project & Reporting

🕒 09:30–10:30 – Project Orientation

- Choose dataset & question

🕒 10:45–12:15 – Data Analysis in Action

📅 01:15–02:45 – R Markdown Reporting

- HTML, PDF, Word outputs

🕒 03:00–04:30 – Presentations & Wrap-Up

🔧 Hands-On: Submit & present final project

👤 Resource Person: Nithin M

🎓 PhD Scholar, IIT Kharagpur

🎓 MPhil – University of Hyderabad

🎓 MSc – Pondicherry University

🌐 Speaker – R Boston User Group (2022)

🏆 Recipient – University of Michigan

Scholarship (noRth 2021)

🔧 Experience in R for social science, data visualization and survey analytics for ten years.

About Kerala Economic Association

Kerala Economic Association (KEA) is a significant professional organization dedicated to foster economic research, policy discussions, and academic excellence, with a particular focus on Kerala's regional economy. KEA has consistently worked toward becoming a policy think-tank for Kerala's economic development. Its mission includes enhancing the quality of teaching and research in economics, particularly in higher education institutions across the state.

About Inter University Centre for Alternative Economics

The Inter University Centre for Alternative Economics (IUCAE) promotes research and studies in alternative economics, which would address the problems of the economy and society beyond the neoclassical mainstream lens. To cater for the same, our focus areas are Neuroeconomics, Institutional Economics, Ecological/Green Economics, Gandhian Economics, Marxian Economics, Islamic Economics, Law and Economics, Economics of Human Capital and Economics of Alternative Development Paradigm. The IUCAE has published Nine books, one policy document, 41 reports including 17 associate research programmes/ internship reports, Eight Associateship reports, 16 Short Term Project reports