

R FOR BEGINNERS

AN OFFLINE WORKSHOP SERIES BY
THE INTERNATIONAL INSTITUTE OF MIGRATION AND
DEVELOPMENT, TRIVANDRUM



- Learn R programming from scratch—no prior experience required.



- Develop hands-on proficiency in data handling, manipulation, and analysis.



- Gain practical knowledge of essential R functions and packages.



- Build confidence in troubleshooting and independently solving R-related challenges.

INSTRUCTOR



Dr. Ajith is a senior research fellow at IIMAD. He has an MBBS (1995 batch) and PG Diploma (Clinical Pathology, 2008 batch) from the government medical college, Thiruvananthapuram. He worked with the Indian Ordnance Factories Health Service for 21 years until 2022. He has completed the India Epidemic Intelligence Course 2014-16 from the National Centre for Disease Control.

RS. 3000/- PER PERSON

**WORKSHOP LOCATION: PONGUMOODU,
TRIVANDRUM**

DATES: MARCH 29-30

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IIMAD office: +91 9778355560*

info@iimad.org

*Please call during working hours

COURSE SCHEDULE

- A total of four sessions (3 hours per session), across two days (March 29-30).
- Sessions on both forenoons (9:30 AM to 12:30 PM) and afternoons (1:30 PM to 4:30 PM).

OUTCOMES

- Hands-on Expertise: Develop a strong foundation in R for data handling and analysis.
- Collaboration & Networking: Engage with instructors and peers to exchange ideas and build professional connections.
- Resources & Support: Access reference materials, scripts, and potential post-workshop guidance.
- Certification: Receive a certificate upon completion to enhance your resume.
- Practical Application: Gain valuable skills for research, policy analysis, and data-driven decision-making, particularly in migration and development.

REQUIREMENTS

- Students are required to have access to a computer with the latest version of R and R Studio installed.
- No more than two students may share one computer.
- Students should learn /revise the numerical and graphical summaries used for descriptive statistics.
- In addition to the requirements for level 1, students should learn about common analytical summaries. They may use <https://sccn.ucsd.edu/~arno/mypapers/statistics.pdf> as a starting point.

COURSE OUTLINE

LEVEL -1 BASICS

- Introduction to R: The workshop will commence with an introduction to R, ensuring that even those with no prior experience can start learning from scratch. Participants will familiarize with the R environment, its interface, and basic functionalities.
- Level 1 of the workshop will equip participants to use R to generate descriptive statistics. Participants will learn to generate numerical and graphical summaries of categorical and numerical data. Base R and tidyverse methods will be taught. Participants will be introduced to literate programming.

LEVEL -2 INTERMEDIATE

- Level 2 will introduce participants to data cleaning and data reshaping techniques.
- Later half of level 2 is dedicated to analytical methods. Participants will learn to perform common statistical tests like chi square, t test, wilcoxon, Kruskal Wallis, ANOVA etc using R. Participants will be introduced to linear regression.

METHODOLOGY

- Hands-on Exercises: To reinforce the concepts taught during the workshop, participants will engage in hands-on exercises. They will work with real-world datasets, allowing them to practice what they've learned and gain confidence in their R skills.
- Practical Application: The workshop will emphasize practical applications, encouraging participants to bring their own research questions or data for analysis. This real-world application helps learners understand how to adapt R to their specific needs.