

# Training in Statistical Analysis and Data Preparation with R

## 1. Data Preparation

- Identifying Missing Data in R
- Simple Imputation in R
- Multiple Imputation in R
- Random Forest Imputation in R
- Imputation Using Mean LOD
- Handling Censored Data
- Assessing Imputation Quality in R
- Sensitivity Analysis in R

## 2. Quality Index Analysis

- Analysis of Variance (ANOVA) in R
- Tukey HSD Test
- Kruskal–Wallis Test in R

## 3. Factor Analysis and Multivariate Regression in R

- Principal Component Analysis (PCA) in R
- Multivariate and Binary Regression Models in R

## 4. Trend Tests and Time-Based Analysis

- Performing the Mann–Kendall Trend Test in R
- Time Series Analysis and Lomb–Scargle Periodogram in R

## 5. Time Series Modeling

- Time Series Models (ARIMA, SARIMA) in R

## Related Training

[R Programming, RStudio, and Tidyverse Course](#)