

DATA MANAGEMENT AND BUSINESS INTELLIGENCE | DMBI-031

R Programming for Data Analysis

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Course content

Why Attend

R is a powerful open-source language for statistical analysis and visualisation, widely used in research, finance, healthcare and analytics teams.

This Aractech course introduces R programming, data import and manipulation with tidyverse tools, visualisation with ggplot2, statistical analysis, reproducible reports and automation. Participants complete practical analysis projects. No prior programming experience is required.

Course Methodology

- Hands-on coding labs
- Demonstrations
- Practice exercises
- Mini projects
- Capstone project

Course Objectives

- Write basic R programs
- Import and manipulate data
- Create visualisations with ggplot2
- Perform statistical analyses
- Produce reproducible reports
- Automate analysis workflows

Target Audience

- Data and business analysts
- Researchers

Course content

- Statisticians
- Finance and healthcare analysts

Course outline

Detailed course outline

Day-by-day outline for R Programming for Data Analysis.

Day 1 - R Fundamentals

- 09:00-09:39 | R and RStudio
- 09:39-10:18 | Data types
- 10:18-10:57 | Vectors and data frames
- 10:57-11:00 | Functions
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Functions (continued)
- 12:05-12:43 | Packages
- 12:43-14:00 | Lab: First R scripts

Day 2 - Data Manipulation

- 09:00-09:39 | Importing data
- 09:39-10:18 | Filtering and selecting
- 10:18-10:57 | Grouping and summarising
- 10:57-11:00 | Joining data
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Joining data (continued)
- 12:05-12:43 | Reshaping
- 12:43-14:00 | Lab: Data wrangling

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Day 3 - Visualisation

- 09:00-09:45 | ggplot2 basics
- 09:45-10:30 | Chart types
- 10:30-11:00 | Customisation
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Customisation (continued)
- 11:45-12:30 | Faceting
- 12:30-14:00 | Lab: Building charts

Day 4 - Statistical Analysis

- 09:00-09:45 | Descriptive statistics
- 09:45-10:30 | Hypothesis tests
- 10:30-11:00 | Regression
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Regression (continued)
- 11:45-12:30 | Interpretation
- 12:30-14:00 | Lab: Analysis project

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Day 5 - Reports and Automation

- 09:00-09:54 | R Markdown and reports
- 09:54-10:48 | Automation
- 10:48-11:00 | Best practices
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Best practices (continued)
- 12:12-13:06 | Next steps
- 13:06-14:00 | Capstone: Analysis report

Seminar dates

Available seminar dates

Live dates and pricing for R Programming for Data Analysis generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	London	Classroom	€2,315
21 - 25 December 2026	Munich	Classroom	€3,225
18 - 22 January 2027	Frankfurt	Classroom	€1,875
15 - 19 February 2027	Barcelona	Classroom	€2,815
15 - 19 March 2027	Frankfurt	Classroom	€1,875
19 - 23 April 2027	Rome	Classroom	€3,460
17 - 21 May 2027	Kuala Lumpur	Classroom	€1,925
21 - 25 June 2027	Barcelona	Classroom	€2,815
19 - 23 July 2027	London	Classroom	€2,315
16 - 20 August 2027	Munich	Classroom	€3,225

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