



PROGRAMMING



CURRICULUM

» INTRODUCTION TO R

- What is R
- History of R
- Features of R
- SAS versus R
- S and S-plus
- Obtaining and managing R
- Installing R
- Packages
- Input/output
- R interfaces
- R Library

» FUNCTIONS AND R PROGRAMMING

- Data Types
- Factors
- Numbers
- Attributes
- Entering Inputs
- Evaluation
- Printing
- Missing Objects
- Explicit Coercion
- Data Frame
- Objects
- Vectors
- Matrix Dimensions, Matrix Design
- C Bind and R Bind
- Lists
- Missing Value
- Names

» DATA MANAGEMENT

- Reading Data
- Writing data
- Reading data files with tables
- Files connection
- Reading lines of Text files

» SORTING DATA

» MERGING DATA

» AGGREGATING DATA

» RESHAPING DATA

» CONTROL STRUCTURES

- If
- For
- Repeat
- While
- Next
- Return

» WRITING FUNCTIONS

» FUNCTION ARGUMENTS AND OPTIONS

» LOOPS:

- Lappy
- Tappy
- Split
- Mappy
- Apply

» DATE AND TIME IN R

- Dates in R
- Times in R
- Operation on Dates and Time on R

» GRAPHICS AND PLOTTING USING R

» BASIC PLOTTING

- Creating a graph
- Density Plot
- Dot Plot
- Bar Plot
- Line charts
- Pie charts
- Box plot
- Scatter Plot
- Histogram
- Normal QQ plot

» ADVANCE PLOTTING

- Graphical Parameters
- Lattice graphs
- Combining Plot
- Ggplots graph
- Probability graphs
- Correlograms

» SAVING PLOTS

» DEBUGGING TOOLS

- Trace
- Debug
- Recover

» DEBUGGING TOOLS

- Creating Random Numbers
- Generating Random Numbers
- Random Sampling

Partners :



edexcel

Java



development | consultancy | training

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