

## R Training Outline

The training is designed to turn you into an above average/intermediate user of R programming. The training is suitable for beginners or those who have a basic knowledge about R. The training main prerequisite is to have a solid background about basic statistics. No prior programming experience is necessary.



### **R basics:**

- 1- Installation, loading files, importing and exporting.
- 2- Reading data files.
- 3- Main operations.

### **Getting started:**

- 1- Working with numbers, vectors, data frames.
- 2- Text processing and dates.
- 3- Loops, subsetting, creating user-defined functions, lexical scoping, and functions.

### **Getting confident with statistics:**

- 1- Computation of basic data moments such as mean, variance, etc.
- 2- t tests and hypothesis testing,
- 3- Graphing data, histograms, boxplots, etc.
- 4- Linear regression models and chi tests.