R datasets:

mtcars, iris

Learn foundation of R

Learn advanced topics in modular way

Beginner: R basics

*How R works?*

*R and R studio orientation*

* + *Working with r studio*
  + *Package Management*
  + *Importing data sets*
  + *Working with data frames*
  + *Basic coding with case sensitivity*
  + *Plotting in R base*
  + *Handling R functions*
  + *Getting help in R*

*Data : Data preprocessing*

*data import and data pre-processing*

* *Handling ‘data.frame’ data*
* *Usage of specific add on package: data.table , deplyr*
* *Tasks to learn : cleaning , filtering, querying, manipulating, importing*

*R coding basics : R Level 1*

*Writing own functions*

*Using loops*

*The apply family of functions*

*Understanding most common object class*

Intermediate Level:

Statistics: Statistics in R

1. linear modelling and hypothesis testing are well implemented in R base

2. Hypothesis tests ( T test, normality test, ANOVA)

3. Linear models

Use Rcmdr ( click ready solutions available )

time series analysis: Time series Analysis

example: stock data, scientific measurements

needs specilised calculations

addon on package for modeling and forecasting

BDV : Graphs in R

high level usage of R base , addon package like ‘ggplot2’(have its own syntax) , ‘lattice’, ‘plotix’