INTRODUCTION TO "R" PROGRAMMING AND DATA ANALYSIS

Duration of Course : 8 weeks(48 hrs), Classes : Sat(4:30-7:30PM), Sun(3:30-6:30PM)

Course Outline:

(1) Algorithms/Flowcharts to solve any problem
(2) What is R and Why R?
(3) Installation of R
(4) Basic Mathematical Operations
(5) Variables
(6) Basic Data Types
(7) Comments
(8) Relational and Logical operators in R
(9) Sequences
(10) Replicate Function
(11) Control Statements in R
(12) Functions
(13) Vectors
(14) Factors
(15) Mathematical Functions in R
(16) Random number generations in R
(17) String manipulations in R
(18) Matrix
(19) Lists
(20) Data Frames
(21) Description of Missing Data
(22) File Handling in R
(23) Graphics using R
(24) Bar Graphs
(25) Histograms
(26) Scatter Plots
(27) Line Graphs
(28) Box Plots
(29) Multiple Plots in Layout
(30) Image processing in R
(31) Database Handling in R

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