

R Studio

R Studio Course Content

- ➔ The Course Overview about R.
- ➔ Installing R for windows and Mac.
- ➔ Explanation of 4 windows in R studio.
- ➔ How to use R Studio.
- ➔ What is data variable etc.
- ➔ Printing the data
- ➔ Data Types
- ➔ Data Structures
- ➔ Vectors
- ➔ The Operator AND OR
- ➔ Data frames
- ➔ Using internal data
- ➔ Intro to MASS
- ➔ Using Data library
- ➔ Using internal data
- ➔ Math in R
- ➔ Importing the data excel Csv etc.
- ➔ Using the imported data
- ➔ Functions in R
- ➔ Data manipulation in R Studio
- ➔ Graphs in R studio
- ➔ Boxplot
- ➔ Histogram
- ➔ Bar plot
- ➔ Pie etc.
- ➔ Explanation of charts, how to use where to use.
- ➔ Creating Basic Graph Types
- ➔ Dplyr – Grammar to data manipulation
- ➔ Full data manipulation with: -
- ➔ Select

R Studio

- Unique
- Keep
- drop
- Wild card search (starts_with, ends_with, contains etc.)
- Filter
- rename
- Sorting
- Summaries with multiple conditions
- Using operators
- Slicing the data
- Missing treatments
- Sub queries in SQL.
- Basic of Stats
- Descriptive Stats
- Freq etc.
- Normal distribution
- Use of Mean median and Stdv
- Linear regression
- Logistics regression
- T- Test (H_0 and H_1)
- Case studies 3- 5 in class discussion and data set provided