

R Coding Course

A STATISTICAL CODING LANGUAGE

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Course Plan For the beginners

•	Introd	luction	of R	coding

- How to install R console & R studio
- How to input data
- How to get output or print()
- Data types

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- Vector
- Matrix
- o List
- Array
- Factors
- Missing object
- Explicit Coercion
- Arithmatic operations
- Arithmatic operation in vector
- Matrix operation in vector
- Binary Formats
- Subsetting of R object
- Removing NA values

Importing Data from-

- o Text
- o Excell
- o SPSS
- o CSV
- File Connection

- Control functions
 If-else
 For loops
 While loops
- Use of break and continue functions

Repeat loops

- Functions
 - Creating functions
 - Argument matching
- Use of dput() & dump() functions
- Dates and Times in R coding
- Operations on date & time
- Scopping rules of R
- Loxical & dynamic scoping
- Optimization & Visualization
- Use of apply(), lapply(), sapply(), tapply(), mapply(), split(), debuging()
- Profiling in R
- Simulation-
 - Generating random numbers
 - o Random sampling
 - Simulating linear model
- Probability calculations

Some basic feature (statistical measure) in R coding

Best of Luck