

# R Programming

## R Programming 4 Weeks Online Course

4 Weeks. (2 Hrs. per day)

Medium of Instruction: Bilingual (English & Hindi)

### Objective

Through this training, student will gain knowledge in R Programming – Data Type, Control Structures, Array and Factor Manipulation, Function, Packages, Data Frames and Visualization. After the course, student will master the essential of R Programming.

12<sup>th</sup> Pass with Basic Knowledge of Programming.

### Eligibility

### Prerequisite

- ✓ Candidate must have latest computer/laptop with preferably 2 GB RAM .
- ✓ Software: R Studio (can be downloaded from [www.r-project.org](http://www.r-project.org) , [www.rstudio.com](http://www.rstudio.com))
- ✓ Internet connection with good speed (preferably 2Mbps or higher)

### Certificate

Certificate will be provided to the participants, based on minimum 75% attendance and on performance (minimum 50% marks) in the online test, conducted at the end of the course.

Rs. 3000/- incl. GST& all other charges.

### Course Fees

### Methodology

- ✓ Instructor-led live classes.
- ✓ Instructor-led hands-on lab sessions.
- ✓ Content Access through e-Learning portal.
- ✓ Assessment and Certification

**Step-1:** Read the course structure & course requirements carefully.

**Step-2:** Visit the Registration portal and click on apply button.

**Step-3:** Create your login credentials and fill up all the details, see the preview and submit the form.

**Step-4:** Login with your credentials to verify the mobile number, email ID and then upload the documents, Lock the profile and Pay the Fees online, using ATM-Debit Card / Credit Card / Internet Banking / UPI etc

### How to Apply?

## Course Content

Day	Topic	Day	Topic	Day	Topic
Day #01	Introduction to R, Installation of R and setting Environment Variable, Basic Types	Day #02	Introduction to Literals & Constants, Types of Literals	Day #03	R Operators – Arithmetic, Relational, Logical, Assignment
Day #04	R Flow Control Statement, Branching - If, If else, ifelse()	Day #05	Looping Control Structure – while, Using break & Continue with While Statement, Looping Control Structure – repeat loop	Day #06	For Loop, break Nested Loops – while, repeat, for
Day #07	R Data Structure – Vector, Matrix, List, DataFrame, Factor R Vector, R Matrix	Day #08	R List R DataFrame	Day #09	R Factor R Table
Day #10	R Built-in Function	Day #11	R User Defined Function	Day #12	R Function Argument Types R Variable Scope
Day #13	R Infix Operator R Switch Function	Day #14	R Objects & Class Inheritance	Day #15	R Objects & Class Inheritance
Day #16	Data Visualization - Graph Plotting, Bar Chart, Line Chart, Histogram Chart, Pie Graph, GGLOT Library	Day #17	Box Chart, Strip Chart, Plot Function, Sub Plot Saving plot, Color in Graphs	Day #18	Statistics for Data Science, Mean, Median, Mode, Standard Deviation, Variance
Day #19	Data Science Concepts, Framing the problem, Data analysis and Visualizing results	Day #20	Machine Learning Basics, Types of machine learning, Application of Machine Learning		

### Course Coordinator

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