**<https://www.udemy.com/course/r-programming-for-beginners-hands-on-tutorial/>**

[**R (programming language)**](https://www.udemy.com/topic/r-programming-language/)

**R for Data Science: R Programming Bootcamp**

Learn R Programming Fundamentals, Data Wrangling, Data Visualization for Data Science

Rating: 4.4 out of 5**4.4** (47 ratings)

1,221 students

Created by [Syed Mohiuddin](https://www.udemy.com/course/r-programming-for-beginners-hands-on-tutorial/#instructor-1)

Last updated 5/2020

English

English [Auto]

**What you'll learn**

* Fundamentals of R Programming
* Work with RStudio
* Use Vectors, Matrices, Lists, Data Frames
* Importing and Handling Large CSV files Data in R
* Import packages in R & use dplyr Package for Data Wrangling
* Create Data Visualization in R
* Using R for Basic Statistical Data Analysis

## Course content

12 sections • 82 lectures • 6h 11m total length

Collapse all sections

### **Introduction 1 lecture • 2min**

* Introduction

Preview02:17

### **Getting Started with R 3 lectures • 9min**

* Installing R on Windows

Preview03:26

* Installing RStudio on Windows

Preview01:54

* Look around RStudio Interface

Preview03:49

### **R Basics 10 lectures • 57min**

* First R Program

Preview03:28

* Basic Mathematical Operations

Preview10:07

* Variables & Reserved Words

08:08

* Basic Data Types

07:57

* Variable Assignment

04:34

* Comments

01:09

* Relational Operators

03:46

* Logical Operators

04:15

* Sequences

09:39

* Replicate

03:42

* Qiuz

5 questions

* Quiz

6 questions

### **R Programming Fundamentals 12 lectures • 51min**

* Control Structures

01:32

* if, if-else and else-if statements

06:52

* ifelse() function

03:32

* for Loop

05:10

* while Loop

05:00

* repeat Loop

04:56

* break & next statement

03:18

* Functions

06:15

* Default and Named Arguments

08:34

* Lazy Evaluation

01:40

* Functions Returning Multiple Values

02:31

* Inline Functions

01:53

* Quiz

8 questions

### **Vectors 10 lectures • 1hr 2min**

* Creating Vectors

Preview14:54

* Subsetting Vectors

Preview10:03

* Matching Operator

02:55

* Vector Arithmetic

05:36

* Vector Methods & Operations

03:27

* Implicit & Explicit Coercion

05:15

* Logical Vectors

07:35

* Factors

02:41

* Mathematical Functions

07:39

* Generating Random Numbers

01:43

* Quiz

4 questions

### **Matrices 7 lectures • 36min**

* Creating Matrix

06:58

* Using diag() Function

03:21

* Naming Rows and Columns of Matrix

03:15

* Subsetting Matrix

07:56

* Martix rbind() and cbind()

05:21

* Matrix Operations

04:48

* Matrix Specific Function

04:01

* Quiz

7 questions

### **Lists 4 lectures • 16min**

* Creating Lists

05:37

* Subsetting or Slicing List

05:08

* Naming List & Subset Operator

02:56

* Lists Concatenation

02:32

* Quiz

3 questions

### **Data Frames 7 lectures • 35min**

* What are Data Frames?

01:54

* Creating Data Frames

03:56

* Subseting Data Frame

Preview07:14

* Data Frame subset() function

05:15

* Data Frame rbind() and cbind() functions

04:23

* Data Frame edit() function

03:09

* Missing Data in Data Frames

09:01

* Quiz

3 questions

### **Importing Data in Data Frame 6 lectures • 16min**

* Import Data from Text Files

04:40

* Import Data from CSV Files

01:58

* Import Data from RDS Files

01:40

* Import Data from Internet

02:25

* Import Data from Clipboard

02:44

* Exporting Data to CSV Files

02:58

* Quiz

1 question

### **Data Handling using dplyr Package 8 lectures • 31min**

* Installing dplyr Package

02:25

* dplyr select() - Select Columns of Data Frame

Preview06:57

* dplyr filter() - Extract Rows from Data Frame

03:24

* dplyr arrange() - Sort or Reorder rows of Data Frame

03:52

* dplyr rename() - Renaming Columns of Data Frame

03:52

* dplyr mutate() - Mutate Data Frames

03:24

* dplyrgroup\_by() - Generate Summary Statistics

02:27

* dplyr %>% - Pipeline Operator

04:24

### **Data Visualization 8 lectures • 32min**

* Bar Plots

04:57

* Horizontal Bar Plots

03:08

* Histograms

03:27

* Scatter Plots

02:30

* Line Plots

01:13

* Box Plots

02:26

* Stacked Bar Plots

Preview06:43

* Multiple Plots in a Layout

07:13

### **Statistical Data Analysis 6 lectures • 25min**

* Exploring Stock Prices Datasets

05:00

* Find Highest and Lowest Stock Price and Dates

Preview04:47

* Graphically Analyzing Stock Prices

07:08

* Analyzing Skewness of Stock Prices - Mean, Median and Standard Deviation

04:55

* Graphically Comparing Stock Prices in same Layout

02:12

* How to Get Certificate of Completion

00:41

## Requirements

* No prior knowledge or technical backgrounds is required

## Description

**Welcome to this course of R Programming for Beginners with the hands-on tutorial, and become an R Professional which is one of the most favoured skills, that employer's need.**

Whether you are new to programming or have never programmed before in R Language, this course is for you! This course covers the **R Programming from scratch.**This course is **self-paced**. There is no need to rush - you learn on your own schedule.

**R programming language** iѕ one of the best open-source programming language and more powerful than other programming languages. It iѕ well documented and has a clean syntax and quite еаѕу tо lеаrn.

This course will help anyone who wants to start a саrееr in Data Science and Machine Lеаrning. You need to have basic undеrѕtаnding оf **R Programming**to become a **Data Scientist** or **Data Analyst**.

This course begins with the introduction to R course that will help you write R code in no time. Then we help you with the installation of **R and RStudio** on your computer and setting up the programming environment. This course will provide you with everything you need to know about the basics of **R Programming.**

In this course we will cover the following topics:

* Basics of R Programming including Operators
* Fundamentals of R Programming
* Vectors, Matrices, Lists
* Data Frames
* Importing Data in Data Frames using Text and CSV files
* Data Wrangling using dplyr package
* Data Visualization

This course teaches **R Programming** in a practical manner with hands-on experience with coding screen-cast.

Once you complete this course, you will be able to create or develop **R Programs** to solve any complex problems with ease.

## Who this course is for:

* Beginner who wants to learn R Programming