G++ IN R PROGRAMMING

COURSE DURATION:240 HRS

Course Outline

Class	Topic		Readings and Tutorials	Lab	Assignment due
1 (3/28)	Introduction to R programming	• What is R? • Installing R and RStudio • RStudio Overview • Working in the Console • Arithmetic Operators • Logical Operations • Using Functions • Getting Help in R and Quitting RStudio	Lesson 1	Exercise 1.1	
2 (4/2)	Data structures, variables, and data types	• Creating Variables • Numeric, Character and Logical Data • Vectors • Data Frames • Factors • Sorting Numeric, Character, and Factor Vectors • Special Values	Lesson 2	Exercise 2.1	

RGET EDUCATION

| 3 (4/4) | R packages and scripts | · Installing and loading packages
· Setting up your working directory
· Downloading and importing data
· Working with missing data
· Extracting a subset of a data frame
· Writing R scripts
· Adding comments and documentation
· Creating reports | · Lesson 3
· Read: Chapters 7–9 | Exercise 3.1 | Assignment 1: Exercises 1.2 and 2.2 |
| 4 (4/9) | Descriptive statistics in R | · Measures of central tendency
· Measures of variability
· Skewness and kurtosis
· Summary functions, describe functions, and descriptive statistics by group
· Correlations | Lesson 4 | Exercise 4.1 | |

5 (4/11)	Statistical graphs	· Scatter Plots · Box Plots · Scatter Plots and Box-and-Whisker Plots Together · Histograms	Lesson 5	Exercise 5.1	Assignment 2: Exercises 3.2 and 4.2
6 (4/16)	Working with messy data	· Messy Data · Renaming Columns (Variable Names) · Attaching / Detaching · Tabulating Data: Constructing Simple Frequency Tables · Ordering Factor Variables	Lesson 6	Exercise 6.1	
7 (4/18)	Iteration	· while loops · for loops	· Lesson 7 · Read: Chapter 17	Exercise 7.1	Assignment 3: Exercises 5.2 and 6.2
8 (4/23)	Conditional statements	· If / else · Boolean logical operators	Lesson 8	Exercise 8.1	
9 (4/25)	Data exploration and visualization	· Using the ggplot2 package to visualize data · Applying themes from ggthemes to refine and customize charts and graphs · Building data graphics for dynamic reporting	· Lesson 9 · Read: Chapter 1 & 22	Exercise 9.1	Assignment 4: Exercises 7.2 and 8.2
10 (4/30) F2F	Data querying: SQL and R	· Writing SQL statements in R · Using the Select, From, Where, Is, Like, Order By, Limit, Max, Min SQL functions	Lesson 10	Exercise 10.1	
11 (5/2)	Writing functions Reporting	· Creating functions · Calling functions	· Lesson 11 · Read: Chapter 15	Exercise 11.1	Assignment 5: Exercises 9.2 and 10.2
12 (5/7)	Interactive reporting with Rmarkdown	· RMarkdown basics · Text formatting · Code chunks · YAML header · Preview of notebooks, presentations ,websites, and dashboards	· Lesson 12 · Read: Chapter 21, 23-24	Exercise 12.1	

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