



Call for Application Data Analysis with R

Introduction

For the first time in Afghanistan, PRSO is offering a course on Data Analysis with R. This course provides a short but intensive introduction to the field of data analysis through R. This course includes three broad topics: data manipulation with R, data analysis and statistical techniques, and data visualization. Bonus: we will learn how to create personal blog/websites and update it using R.

The course consists of lectures, homework assignments, reading assignments, quizzes, and a capstone project. As a capstone project, students will work on a real-world problem/question and demonstrate skills to solve that problem/question. This is an intensive path with a lot of material to learn, but at the end, you will know various tools and techniques you need to start analyzing data: how to manipulate data, apply statistical techniques, and analyze and visualize results. You should also be prepared to begin a career as a data analyst.

Key Information:

Duration:	<i>8 weeks</i>
Lectures:	<i>2 hours per week on Thursday afternoons (tentative)</i>
Assignments:	<i>5 hours homework and reading assignments per week</i>
Location:	<i>PRSO office, Karte 4, Kabul</i>
Fee:	<i>AFN 4,000 (Administrative and Refreshment Fee)</i>

How to apply?

Interested candidates should send a CV and one paragraph statement (up to 100 words) explaining reason for apply to info@porseshresearch.org by COB Tuesday **July 10, 2018**. Please mention “Data Analysis with R” in the email subject. Qualified candidates will be invited for a pre-admission session on Wednesday July 11, 2018 for an in-person presentation of the content of this course and proceed with admission if still interested.

Why learn this?

Data analysis is both a fascinating topic in itself and a tool that empowers you to understand the world around you. R is the preferred language for data analysis and data science. There has been a large spike in demand for data analysts with knowledge of R programming language, so learning analytics can be extremely advantageous from a career perspective. Being able to find trends in large datasets will help you know how to make sound decisions, for an organization/business, in life, etc.

What will we learn?

This course teaches some of the most important techniques and tools necessary to manipulate and analyze large datasets and summarize conclusions. **This includes:**

- Exploratory data analysis
- Statistical analysis
- data visualization best practices
- A capstone project
- R program language throughout the process

What won't we learn?

Analytics and R language are enormous and growing fields with many diverse areas, and we will not have time to cover them all. In the interest of getting you analyzing real datasets as quickly as possible, the emphasis in this course is on practical applications as opposed to theory. Also, the focus will be on analysis and manipulation of data rather than setup and storage. Finally, this course will get you start in the field of data analysis and R programming in a short period of time. However, students who finish this course should be well-prepared to study advance areas.

Who is this for?

This course is intended for aspiring data analysts and data scientist. Experience in data analysis and R programming is not required. Basic understanding of these topics will certainly help learn more efficiently but are not necessary. A basic familiarity with *English language*, *calculus* and *general computer competency* are assumed.