PISTAR
Pak Institute of Statistical Training & Research

(PISTAR) which is a young organization launched a few years ago as one of the latest initiatives of the Islamic Countries Society of Statistical Sciences (ISOSS), a professional society established by Late Professor Dr. Munir Ahmad in August 1988. (http://www.isoss.net)

Subsequent to the advent of the COVID-19 pandemic, everyone needs to stay home as much as possible, but learning must go on. As such, PISTAR has commenced a series of online international training workshops for practitioners, academics and students of Statistics within and outside Pakistan i.e. for the global Statistics community.

“WE ARE DEDICATED TO PROVIDE STATISTICAL EDUCATION AT HOMES IN THE TIME OF COVID-19”

44-A, Civic Centre, Liaqat Chowk, Multan Rd, Sabzazar
LAHORE, 54000
(042) 37495789
http://www.isoss.net/
**PISTAR INTERNATIONAL TRAINING PROGRAM**

**Saturday Series of Online Workshops**

**TIDYVERSE tidyr**

*(For efficient data tidiness)*

Saturday, 15 Aug. 2020 14:00 to 17:00 PKT

tidyr provides a set of functions that help you get to tidy your data. Tidy data is data in a consistent form: every variable goes in a column, and every case goes in a row.  

Contents

Definition of tidy data, gather(), spread(), View(who), separate(), unite(), missing values, drop_na() & geom_line(), geom_point(), geom_boxplot()  

**TIDYVERSE data types**

*(stringr, forcats, lubridate, hms)*

Saturday, 12 Sep. 2020 14:00 to 17:00 PKT

stringr provides a cohesive set of functions designed to make working with strings as easy as possible. It is built on top of stringi, which uses the ICU C library to provide fast, correct implementations of common string manipulations.  

Contents

logicals,str_sub(),gss_cat(), levels(), fct_reorder(), fct_infreq(), fct_rev(), fct_recode(), fctCollapse(), fct_lump(), hms(), ymd()  

**TIDYVERSE modelr**

*(For efficient data modeling)*

Saturday, 03 Oct. 2020 14:00 to 17:00 PKT

modelr provides functions that help you create elegant pipelines when modeling. It is designed primarily to support teaching the basics of modeling within the tidyverse.  

Contents

lm(), tidy(), glance(), augment(), multivariate regression, geom_smooth(), add_predictions(), add_residuals(), spread_residuals(), gather residuals()  

**RESOURCE PERSONS:**

American Statistical Association Educational Ambassador for Pakistan

Dr. Saleha Naghmi Habibullah  
Professor, Kinnaird College for Women, Lahore  

Dr. Sharqa Hashmi  
Assistant Professor, LCWU, Lahore  

Ms. Zulaikha Mashkoor  
Lecturer, Minhaj University, Lahore  

Ms. Kanwal Aslam  
Rapporteur  

**GET REGISTERED BY:**

13th August, 2020  

Registration Fee for the participants from  
Within Pakistan: PKR 1000  
* High-income countries: Euro 25/USD 28  
* Upper-middle-income countries: Euro 20/USD 22.5  
* Lower-middle-income countries: Euro 12/USD 13.5  
* Low-income countries: Euro 8/USD 9  

15% DISCOUNT ON REGISTRATION FOR SATURDAY SERIES (BUNDLE OF 3)

For Queries and Registration:

Dr. Syed Wasim Abbas  
Focal Person, PISTAR International Training Program  
+92 333 6550630  
alsyed_edu@hotmail.com