Indian Institute of Public Health – Delhi
Public Health Foundation of India

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Workshop Series 2023- 24
Online Workshop on
'Data Handling, Cleaning, Visualization and Statistical Analysis in Python for Public Health Professionals'
June 12 - 16, 2023
Last date of registration: 29th May 2023
Course Coordinator: Dr. Surabhi Pandey, Associate Professor, Indian Institute of Public Health-Delhi

Click here to Apply Online

About the course

Data visualization is the representation of information embedded in the data, in the graphical forms. It is one of the most impactful way to communicate the story hidden behind the complex data. In the world of Big Data, data visualization as a tool provides an accessible way to understand the patterns, highlighting the trends and outliers in the data. In this workshop, writing Python codes to visualize data using charts, graphs and maps will be taught. Using programming language, one has the power to automate the process of creating charts, graphs and maps. This helps in creating similar graphs etc. with different datasets using same Python codes. In this workshop, through lectures and hands-on exercise with health-related dataset, you will explore and learn how to choose best visualization for your dataset and how to interpret it.

This workshop is suitable for anyone who wants to upgrade their skill of data visualization and learn basic to intermediate coding in Python.

This is an online workshop thus requires participants to have their own laptop/desktop and stable internet connection. The workshop will be facilitated on CISCO WebEx of IIPH-Delhi Platform.

Contents
- Introduction to Python
- Installing Python and familiarizing Python Environment, Libraries for Data Visualization
- Strength and limitation of Data Visualization libraries viz., Matplotlib, Pandas, Seaborn
- Writing Python Code for Data Visualization- Scatter, Line and Bar plot, Histogram, Box plot, Heat Map, Tree Map, Faceting etc.
- Assignment and Hand-on training of writing Python code to create graphs
- **Statistical Analysis of Big Data**

About the Faculty

Dr. Surabhi Pandey, Associate Professor is PhD in Mathematics and specialized in Infectious Disease Modelling (IDM). She has 14 years of experience in teaching Maths, Programming and IDM in UG and Masters Courses. Her research interest is in theoretical and computation modelling of infectious diseases and data analysis.

Ms. Tripti Agarwal *(B. Tech in Biotechnology and MSc in Clinical Research)* is a PhD Scholar, Clinical Research (specialization in Genetic Epidemiology) at Indian Institute of Public Health-Delhi- affiliated with Academy of Scientific and Innovative Research (AcSIR). She has actively handled and analysed epidemiological datasets and is proficient in Data Analysis using Stata, R and Python. She has gained teaching experience in the courses such as Statistical Genetics in Genetic Epidemiology, Basic Biostatistics, and Epidemiology. She has also assisted in conducting workshops on Data Analysis using R and Python during her PhD.

Who should attend?

This workshop is suitable for anyone who wants to upgrade their skill of data visualization and learn basic to intermediate coding in Python.

How to Apply?

Interested participants may **Apply Online** and submit online registration form or write an email to **trainings@iiphd.org.** The fee will be submitted by E-transfer, the **bank details for E-transfer will be shared upon applying for the workshop**.

Registration Fee:

Indian National: 9000 INR per participant	**Foreign National:** 18000 INR per participant

* We have limited seats available; registrations will be confirmed on a first come first serve basis.

Disclaimer: In case of cancellation of the workshop due to any unforeseen circumstances like natural calamities, imposition of curfew declared by the government, any emergency situation at the institute or any medical emergency of the workshop teaching staff, the full registration fee shall be refunded to the candidates. However, any other costs incurred by the participant shall not be borne by the institute.