



WORKSHOP ON INTRODUCTION TO



(November 20, 2017 – November 21, 2017)



Venue: -
Computer Lab, New Building
Satyawati College (Day)
Ashok Vihar, Delhi- 52



About the College

Satyawati College was established in 1973. The college currently has over 3000 students and is committed to providing meaningful education which inculcates students with the spirit of scientific temper and enhances the academic faculties of teachers and researchers.

About the Programme

Statistical procedures are widely used to solve problems in both social and natural sciences. Statistical software such as Excel, SAS, SPSS, STATA are expensive, proprietary and not adequately flexible. **R** is the leading software for statistics, data analysis, and machine language. It is free and open source software which is very powerful and fully customisable. It provides a wide variety of Statistical and graphical techniques such as time-series analysis, linear and nonlinear modelling, classical statistical tests, classification etc. R can generate high quality graphs to illustrate various relationships between variables.

This workshop is of two days. Here Participants will have lectures of two hours and Lab work of one hour on each session of each day.

Resource Person

Dr. Jyotirmoi Bhattacharya

Assistant Professor

Ambedkar University of Delhi

For Whom

- Faculty Members, Independent Academicians and Research Scholars



Objective of workshop: To provide an introduction to the R statistical environment and its use in data analysis, visualization and econometrics.

Session Plan:-

Day 1

Lecture 1 (2 hours)

- Introduction to R and R-Studio
- Vectors
- Functions
- Variables and Assignment
- Importing and Exporting Data
- Descriptive Statistic
- Random Number Generation and Simulation
- Basic Plotting

Lab 1 (1 hour)

Lecture 2 (2 hours)

- Basic Regression Analysis
- Categorical Regressors
- Common hypothesis tests
- Logit/Probit models
- Regressions with time-series data

Lab 2 (1 hour)

Day 2

Lecture 3 (2 hours)

- Data manipulation with Tidyverse libraries
- String handling and regular expression
- Date/time handling

Lab 3 (1 hour)

Lecture 4 (2 hours)

- Producing graphs using ggplot2/ggvis
- Using R Markdown to embed statistical analysis in documents
- Using Shiny to build interactive documents

Lab 4 (1 hour)



Key Information

Duration- Two days workshop from 20th -21st November, 2017 (10:00 AM to 5:00 PM)

Certificate of Participation- Certificate of Participation shall be given to participants on successful completion of the programme.

Registration- Workshop fee includes workshop kit, professional fee, tea and lunch. The Fee is: **Rs. 1800** for Participation

Last Date of payment for registration is **27th Oct, 2017** (Friday).

The fee can be paid through RTGS/IMPS/NEFT/ DD/cheque in favour of **Principal, Satyawati College** (payable at Delhi), Punjab National Bank, Ashok Vihar Branch

A/c no: **0637010100345020**

IFSC Code: **PUNB0466400**

Once you make the fees payment, please drop a mail at satyawati.conference@gmail.com with the following details:

Name of Participant:

Date of Payment:

Mode and Details of Payment:

Are you familiar with R: (Yes/ No)

Only limited seats are available, therefore registration shall be made on “*first come, first serve*” basis. Please note that no refund of fee shall be made later on.

Patron

Dr. Manjula Dass, Officiating Principal, Satyawati College (Day)

Key Contacts of organising team

Dr. (Ms) Ankur Bhatnagar (**Convener**) +91-9911430009

Mr. C. Saratchand (Co-Convener) +91-9811688219

Ms. Kokila Meena

Dr. Devesh Birwal

Mr. Pintu Parui

Mr. Sarweshwar Kumar Gautam