



ONE WEEK ONLINE TRAINING PROGRAM ON STATISTICAL DATA ANALYSIS USING "R" SOFTWARE

(December 21-27, 2021)

Organized By

Science Tech Institute, Lucknow, UP

(Run by: Manraj Kuwar Singh Educational Society)

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One Week Online Training Program on Statistical Data Analysis using "R" Software

December 21-27, 2021

The Science-Tech Institute, Lucknow is going to organize **One Week Online Training Program on Statistical Data Analysis using "R" Software**

This training will provide a platform to the researchers and academicians to enrich their methodological and analytical skills.

Currently, the teaching fraternity is missing their lively and interactive trainings due to COVID-19 Pandemic. To address the present situation we are conducting for this **One Week Online Training Program on Statistical Data Analysis using "R" Software** faculty members and research scholars of all the disciplines in the country and abroad from **December 21-27, 2021**.

Science-Tech Institute

The Science-Tech is one of the premier institutes of Lucknow dedicated to organize various academic activities like conferences, seminars, workshops and training programmes in collaboration with many National & International organizations. Institute has own Publication house and Journals which publish Edited books, Course books and research papers. The institute is run by Manraj Kuwar Singh Educational Society, Lucknow. The society is working for the development of deprived socio-economic students by providing them quality education. The society is devoted to provide quality education to the poor students.



ABOUT OF THE PROGRAM

The Science Tech Institute has been conducting the training programmes on Demographic and Statistics methods for the health professionals including faculty of medical colleges. The feedback given by them indicates that there is a need for conducting a training programme with a special focus on statistical methods and analysis by using standard statistical software such as R/STATA/SPSS etc. R is free software and has huge user community. Therefore it is extensively used for statistical data analysis. Application of statistical software reduces the time to analyze large amount data which provides insights to the policy makers for public health. Therefore, training course on data analysis using standard Statistical Packages for Health and Demographic research is being organized for professionals engaged in research and analysis of health and demographic studies.

General Objective

To orient the participants on data analysis and develop their skills in use of R software for health and demographic research.

Specific Objectives

At the end of the training course, the participants would be able :

1. To prepare the coding plan and create data set
2. To describe the nature of variables
3. To describe the application of R software in data analysis
4. To conduct data analysis on prepared data set by using R software

Methodology

The methodology of the course will comprise of:

- Online lecture
- participatory discussion
- Demonstrations
- Problem solving (exercises and data analysis sessions using R software).

Duration

One Week Date: 21 - 27 December, 2021.

Nature of Participants

Faculties, Residents from Medical Colleges, Nursing Colleges, Agriculture College, SIHFW and Demographers, Epidemiologist, Statistical officer, Data Analyst and other researchers who are interested to learn data from Govt. and Pvt. organizations are eligible to apply and also all Faculty members (regular/ad-hoc/temporary/guest) from any Indian/Foreign University/College, Ph. D. (Research Scholars) and UG, PG Students of MBBS & MD, B. Tech & M. Tech. , B.Sc.& M. Sc. BCA & MCA, B. Com. & M. Com. of all the discipline.

COURSE CONTENT OF THE TRAINING PROGRAM

Days	Topics Covered
1 Day 1 (21 December, 2021) Timing: 06:00 PM- 08.00 PM	<ul style="list-style-type: none"> ❖ Introduction of R ❖ Installation of R and R studio ❖ R as a calculator ❖ Data Structure: Vectors, Matrices, Arrays, Data Frames, Factors & lists.
2 Day 2 (22 December, 2021) Timing: 06:00 PM- 08.00 PM	<p>Basic Data Management</p> <ul style="list-style-type: none"> ❖ Data input: Entering data from the Keyboard ❖ Importing data from Excel, SPSS,SAS, STATA ❖ Creating new variable ❖ Recoding variables ❖ Renaming variables ❖ Missing values ❖ Sorting data
3 Day 3 (23 December, 2021) Timing: 06:00 PM- 08.00 PM	<ul style="list-style-type: none"> ❖ Descriptive Statistics using R ❖ Graphical representation in R
4 Day 4 (24 December, 2021) Timing: 06:00 PM- 08.00 PM	<p style="text-align: center;">Statistical Inference : Parametric Tests</p> <ul style="list-style-type: none"> ❖ T-test ❖ Paired t-test ❖ Analysis of Variance (ANOVA)
5 Day 5 (25 December, 2021) Timing: 06:00 PM- 08.00 PM	<p style="text-align: center;">Statistical Inference : Non Parametric Tests</p> <ul style="list-style-type: none"> ❖ The Wilcoxon Signed Rank Test ❖ Mann Whitney U-Test ❖ Kruskal-Wallis Test ❖ Chi-square Test
6 Day 6 (26 December, 2021) Timing: 06:00 PM- 08.00 PM	<p style="text-align: center;">Linear Regression Analysis</p> <ul style="list-style-type: none"> ❖ Simple Linear Regression ❖ Multiple Linear Regression
7 Day 7 (27 December, 2021) Timing: 06:00 PM- 08.00 PM	<p style="text-align: center;">Generalized Linear Models</p> <ul style="list-style-type: none"> ❖ Logistic Regression ❖ Poisson Regression

Training Rule

- ❖ Registration for all the participants of the Training is mandatory. Registered participants will be given e-certificates.
- ❖ Study material in the form of ppt and video recording of all sessions will be provided to all registered participants.

For further queries, please mail us at:

sciencetech487@gmail.com

REGISTRATION & PAYMENT DETAILS

Details of Registration Fees:

1. For Indian Participants: **INR 600/- (Non-Refundable)**
2. For Foreigner : **INR 600/- (Non-Refundable)**

For registration & payment please click on the given link:

<https://sciencetechinstitute.com/one-week-online-training-on-statistical-data-analysis-using-r-software/>

Note

After successful registration, the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder. An official group has been made for communication with the participants on "Whatsup." The link to join the official group will be provided in the confirmation mail.

About Resource Persons

Dr. M. Ramakrishnan Assistant Professor, P.G and Research Department of Mathematics, Ramakrishna Mission Vivekananda College, Mylapore, Chennai. Dr. M.Ramakrishnan has done his Ph.D in Mathematics- Statistics from the University of Madras. He has twenty six years of teaching Experience in Mathematics. His specializations are Mathematical Statistics, Ordinary Differential Equations. His Research area is Survival Analysis. He has expertise in handling Softwares SPSS, STATA, R Programming, WINBUGS, EXCEL and SCILAB. He has published Research Papers in National and International Journals and Presented Papers in many National and International Conferences in the field of Survival Analysis throughout India. He has conducted several R courses in all over India.



Mr. Saurabh Agarwal Mr. Agarwal is a graduate and post graduate engineer from IIT Kanpur and IIT Delhi. At present he is associated with HBTU, Kanpur. He is consultant to IBM and UNESCO for Business Analytics. He has expertise in Data Mining, Data Analysis, Business Analytics, Structural Equation Modelling, Multivariate Analysis and works on platforms like R, SPSS, AMOS, Modeler, IBM Watson Analytics.



Chief Patron



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