

# ADVANCE DATA ANALYSIS IN RESEARCH USING R

25-26 MARCH 2023

**ORGANIZED BY**

INSTITUTE OF COMPUTER SCIENCE & TECHNOLOGY,  
SHEPA, VARANASI – 221011

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# SHEPA

## Society for Higher Education and Practical Applications

Society for Higher Education and Practical Applications (SHEPA), is the outcome of foresight, pioneering zeal and philanthropic spirit of renowned business group, 'Rungta Project Ltd.' which envisioned, created, supported and nurtured it. SHEPA as a pioneering umbrella organization came into existence in 1999 when it got registered under Indian Societies Act of 1861. It is located at Nibia, Bachchaon, on Mohansarai-Mughalsarai bypass road in the southwest of Banaras Hindu University. About 10 km away from Varanasi Cantt. Rly, Station and about 7 km away from Manduadih Railway Station. SHEPA Campus is spread over 10 acres of lush green land in beautiful, scenic and serene setting with canopies of magnificent avenues. It is housed in multiple modern multi storied majestic building of awe inspiring architectural design with all the updated equipments and infrastructure required for quality ethos. The Wi-Fi campus is a real blend of natural beauty and technological advancement. encouraging innovativeness of the students, In order to attain its objectives effectively, it has launched professional programmes in the areas of computer science, management and education under its different institutes in successive stages with a comparatively affordable economic fee-structure.

## Why this workshop?

All research scholars are not teachers but all teachers are research scholars. With the advent of new technologies which enable tons of data, it becomes necessary to learn how tools to interpret analyze and understand data. New knowledge emerges from research which is an organized set of activities to study and develop a model, procedure and technique to find the results of a realistic problem supported by literature and data such that its objectives are optimized and further make recommendations for implication. Whereas research methodology refers to a system of models, procedures and techniques used to find the result of a research problem. These processes are essential to learning by a prospective researcher. Often without training in methods, essays based on perceptions and quotations are passed as research, particularly in non-academic contexts. Using these techniques is the first step towards developing a sound researcher. Keeping in view the importance of research methodology, the FDP is contemplated with the aim to learn how to program in R and how to use R for effective data analysis. You will learn how to install and configure software necessary for a statistical programming environment and describe generic programming language concepts as they are implemented in a high-level statistical language. The course covers practical issues in statistical computing which includes programming in R, reading data into R, accessing R packages, writing R functions, debugging, profiling R code, and organizing and commenting R code.

# Resource Person



Dr. Arun Kumar Dubey  
S K Somaiya College, Mumbai,  
ALUMNI IIM AHMEDABAD

Prof. Dubey is an Assistant Professor in Management Studies at S K Somaiya College, Somaiya Vidyavihar University, Mumbai. He is the FDP Alum of Indian Institute of Management, Ahmedabad. He is into management education for more than a decade where he has taught thousands of students in numerous institutes of repute at pan India level. He has also acted as resource person to train faculty members in numerous faculty development programs at various institutes at the national level including AICTE approved ones. Some of the notable institutes of India where he has been invited to train faculty members and research scholars include Bhavan's Institute of Management Studies, Kolkata; Darbar College, Karnataka; IPREMS, Orissa; S K Somaiya College of Arts, Science and Commerce, Mumbai. He was the resource person at INDAM Pre-Conference workshop organised in 2022 at IIM ROHTAK on the topic of PLS-SEM using R. Other notable institutes where he has conducted sessions for students are Andrews College, Vivekananda College, SNTD College, MD College, Mulund College of Commerce, Shepa Varanasi etc. In addition to his academic engagements, he is a part time doctoral student at Pondicherry Central University. His research is focussed on understanding and exploring member attributes and leader member exchange impact on pro- organizational outcomes among pharmacovigilance associates in the Indian pharmacovigilance industry

## Objective

- To guide the research process with the necessary knowledge and skills to undertake a piece of research work in any area of choice while using R.
- To train researchers in various methods, tools and research techniques through R.
- To learn how to interpret and analyze the results through R & its relevance to the research undertaken
- To enable researchers, irrespective of their discipline, to develop an appropriate methodology for their research studies.
- To familiarise the participants with multivariate data analysis (Correlation, Regression, AFA and CFA).

## Outcome

- After attending FDP, participants will get an in-depth understanding of research and its implications in the decision-making process.
- Participants will be able to analyze data with R
- Participants can interpret the results and can relate them to their research through R
- Participants can be able to perform EFA & CFA with R
- Gain a better understanding of how to design a valid research project to answer specific research questions through R.

## Who Can Attend

- Research Scholars pursuing PhD (Fees: INR 2000/)
- Faculty Members (Fees: INR 3000/)
- Professionals from industry engaged in data analysis (Fees: INR 3500/)

# Registration Details:

Interested Participants after the payment of the fees may fill out the registration form and send their filled in Registration forms to the email id: [fdp@icst.ac.in](mailto:fdp@icst.ac.in)

In order to register for the workshop, please make the payment at:  
Bank A/C Detail:

Bank Holder Name: Institute of Computer Science & Technology

Bank A/C Number: 40160200000886

Bank Name: Bank of Baroda Mahmoorganj, Varanasi

IFSC: BARB0MAHMOO

After making the payment, please register by mail to [fdp@icst.ac.in](mailto:fdp@icst.ac.in)  
or

[https://docs.google.com/forms/d/e/1FAIpQLSeIPx16qxntEFkNk\\_6tFUrgVstXcfMebqgpCWbSg-qzuzgyjA/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSeIPx16qxntEFkNk_6tFUrgVstXcfMebqgpCWbSg-qzuzgyjA/viewform?usp=pp_url)

**Last Date for Registration:** Registration will close on or when the seats of the workshop are filled (whichever is earlier). The seats of the workshop are limited. The registration will be purely on a first-come-first-serve basis.

**Accommodation is available on a payment basis and with prior information**

**For further query , Please Contact to**

Ms Sweta Mob. +91- 9670567656 | Email: [fdp@icst.ac.in](mailto:fdp@icst.ac.in)

## ORGANISING COMMITTEE

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