



# INSTITUTE OF APPLIED STATISTICS

A Statistical Training & Research Institute

Presents

One-Month  
Online Certificate Programme on

## APPLIED DATA ANALYSIS WITH "R" FOR RESEARCH PROFESSIONALS

**StatXpert-50**  
**Batch-02**

**\*\*Batch of 50 Researchers/Faculties Only  
filled on the basis of first come first serve.**



### ABOUT THIS PROGRAMME

This one-month course is designed to give participants a solid foundation in data analysis using R. It will cover essential concepts in data manipulation, visualization, and basic statistical analysis, along with practical applications. The program features live, one-hour daily sessions, five days a week.

### WHO SHOULD ATTEND ?

UG, PG, Doctors/Faculties, any Research scholar of any Medical or non-medical colleges / Institute / Universities.

### REGISTRATION FEE :

**2000/- INR Per Participant**

### PROGRAMME DURATION:

 **16 Dec 2024 to 15 Jan 2024**

 **06:00 PM to 07:00 PM**

### FEATURES

- ✓ Evening Live Session.
- ✓ Lifetime Access of Recorded Lectures.
- ✓ E-Certificate of Completion to all participant.
- ✓ Online Quiz for Self Assessment.

**StatXpert-50**  
**Batch-02**

# One-Month Online Certificate Programme on APPLIED DATA ANALYSIS WITH R FOR RESEARCH PROFESSIONALS



## PROGRAMME SCHEDULE

16-20  
DEC  
2024



06 to 07 PM

### Module-01 : Introduction to R and Data Types

- ✓ 16 Dec, 2024: Overview of R and R Studio Environment
- ✓ 17 Dec, 2024: R Basics and Data Types
- ✓ 18 Dec, 2024: Working with Data Structures in R
- ✓ 19 Dec, 2024: Basic Operations & Functions in R
- ✓ 20 DEC, 2024 : QUIZ-01 (20 MCQ QUESTIONS)

23-28  
DEC  
2024



06 to 07 PM

### Module-02 : Data Manipulation Using R

- ✓ 23 Dec, 2024: Import and Export Data, Data Cleaning and Preprocessing
- ✓ 24 Dec, 2024: Introduction to the dplyr Package
- ✓ 26 Dec, 2024: Handling Dates & Time
- ✓ 27 Dec, 2024: Data Manipulation with dplyr
- ✓ 28 DEC, 2024 : QUIZ-02 (20 MCQ QUESTIONS)

30 DEC,  
2024  
-  
05 JAN,  
2025



06 to 07 PM

### Module-03 : Data Visualization with R

- ✓ 30 Dec, 2024: Introduction to Data Visualization
- ✓ 02 Jan, 2025: Visualizing Data with ggplot2
- ✓ 03 Jan, 2025: Customizing ggplot2 Plots
- ✓ 04 Jan, 2025: Advanced Plot Types & Creating Interactive Visualizations
- ✓ 05 JAN, 2025 : QUIZ-03 (20 MCQ QUESTIONS)

07-15  
JAN  
2025



07:30 to 08:30 PM

### Module-04 : Basic Statistical Analysis in R

- ✓ 07 Jan, 2025: Descriptive Statistics
- ✓ 08 Jan, 2025: Hypothesis Testing
- ✓ 09 Jan, 2025: Correlation and Regression Analysis
- ✓ 10 Jan, 2025: ANOVA and Group Comparisons

13-15 JAN  
2025



06 to 07 PM

- ✓ 13 Jan, 2025: Introduction to Machine Learning in R
- ✓ 15 JAN, 2025 : ASSESSMENT TEST (40 MCQ QUESTIONS)

✓ **Certification:** E-Certificate will be awarded upon successful completion of the program, based on attendance and assessment completion.



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www.iasdcs.com





# INSTITUTE OF APPLIED STATISTICS

A Statistical Training & Research Institute

## ABOUT INSTITUTION

Welcome to the Institute of Applied Statistics (IAS), A premier institute dedicated to advancing statistical knowledge, we are committed to fostering the development of human resources in the field of statistics. Our mission is to equip professionals nationwide with the skills needed to excel in data analysis and research. At Institute of Applied Statistics, we offer cutting-edge training in statistical tools and methodologies, empowering individuals across various industries to tackle complex challenges with confidence. Beyond training, we are actively involved in groundbreaking multidisciplinary research, pushing the boundaries of statistical science.

**Our Vision:** To be at the forefront of global statistical advancement, spreading statistical knowledge and enhancing statistical systems worldwide.

**Our Mission:**

- **Develop Skilled Professionals:** We aim to create a pool of trained experts ready to address emerging research challenges.
- **Tailored Training Programs:** We design and deliver specialized training for both statistical and non-statistical personnel, focusing on monitoring and evaluating large-scale projects.
- **Collaborative Development:** We collaborate with academicians, researchers, and industry professionals to develop training modules that meet specific needs.
- **Global Training Opportunities:** We organize international, national, and state-level training programs to support researchers and academics.
- **Consultative Expertise:** We provide expert consultation for conducting research, serving both government and private sectors.

## Our Research & Development Schemes




**Dr. Padam Singh  
R&D Scheme**

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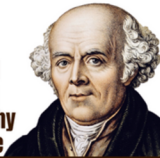
**Allopathy**




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## Our Joint Training Centers

