



# Five Days Online National Workshop on Research Data and Statistical Analysis using R Programming

14 – 18 September 2020

## Objectives of the Workshop

The significance of Data and its effective analysis is unavoidable to have a good piece of research and to make a fruitful decision. From students to scholars, individual researchers to research institutes throughout the world come across this data analysis part to carry out their research. Statistics and statistical analysis play a crucial role in research and analyzing data. The aim of this workshop is to provide hands on training in understanding the concepts in data science and statistical analysis using R programming which is one of the most widely used open source package in the field of Data Science across the world. This workshop will help the participants in applying proper research methodology and improving their analysis by applying various statistical techniques using R programming. At the end of the workshop, participants should be able to:

- ✓ Get familiar with R programming language;
- ✓ Understand statistical analysis using R programming;
- ✓ Explore how to analyze research data using R programming;
- ✓ Explore how to represent data using basic graphs in R.

## Major Topics

The Scope of workshop is to cover theoretical discussion and practical exposure on the following aspects of statistical analysis using R:

- ✓ Data types in R;
- ✓ Importing and handling data in R;
- ✓ Working with functions in R;
- ✓ Exploratory Data Analysis using R (Data Visualization);
- ✓ Descriptive Statistics (Summary Measures) using R;
- ✓ Hypothesis Testing – I (Parametric);
- ✓ Hypothesis Testing – II (Non-Parametric); and
- ✓ Analysis of Variance (One-way ANOVA, Two-way ANOVA)

## Resource Persons

The lecturers are prominent researchers, scientists/professors in the field of statistics and data science. They have an extensive experience with the application of statistical analysis in a research evaluation.

## Target Participants

Academicians, Faculty, Current and Prospective Research Scholars, PG Students and UG Students from all disciplines. A maximum of 40-50 candidates will be selected for the training programme on First Come First Serve basis.

## Duration: Five Days (14<sup>th</sup> –18<sup>th</sup> September 2020)

Five Days workshop includes 10 demonstration sessions (2 sessions per day) including theoretical and practical aspects of topics. No separate hands-on practical sessions will be conducted.

## Venue

The workshop will be conducted online.

## Workshop Fee

The registration fee is Rs. 1,180.00 (Rupees One Thousand One Hundred Eighty only) per person which is inclusive of GST rates. Fee is non-refundable and non-adjustable. The Centre accepts payment through online mode mentioned in online registration form.

## Online Registration

The application for registration to the training programme should be submitted online at <https://hrd.inflibnet.ac.in/login.php> on or before 05<sup>th</sup> September 2020. The registration may be closed prior based on non-availability of seats.

## e-Certificate

e-Certificate will be issued to the registered participants subject to attendance in all sessions and quiz submission.

### For further information please contact

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