



National Workshop on

## **“Research Data Analysis Using R”**

**(January 10 to 12, 2019)**

**Organized by**

**Department of Business Administration  
NERIM Group of Institutions, Guwahati-22**



### **COURSE COORDINATOR**

**MANASH PRATIM KASHYAP**

**Assistant Professor, Department of Business Administration  
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## About the Training Programme

Statistical analysis is an important tool for enhancing decision making in research. Statistical methods and analyses are often used to communicate research findings and to support hypotheses and give credibility to research methodology and conclusions. It is important that researchers and also end-users of research findings, understand statistics. So, that they can be informed about the credibility and usefulness of information, and make appropriate decisions. Researchers of different disciplines collect data from a variety of primary and secondary sources. The internet has made data collection from secondary sources easier for researchers. The availability of data from multiple sources and the ease of replication, have caused a virtual explosion of data. But a Social Science researcher should know what to look for, in the haystack of data, digging further into the data and to discover nuggets of knowledge and interpret the results of data processing.

The most popular package for researchers in Science for data analysis today is R. R is an open source programming language and software environment for statistical computing and graphics that is supported by the R Foundation for Statistical computing. The R language is widely used among researchers in Science for data analysis and for statistical modeling.

The workshop is designed to orient Faculty members and Researchers in data analysis and programming in introductory level.

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 the participant will be able to learn the following:

- (i) Get familiar with R programming language;
- (ii) Understand statistical analysis using R programming;
- (iii) Explore how to analyze research data using R programming;
- (iv) Explore how to represent data using basic graphs in R;
- (v) Explore the cause and effect study using R.

## **Major Topics Covered**

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

- **Introduction to R;**
- **Data types in R;**
- **Importing and handling data in R;**
- **Exploratory Data Analysis using R (Data Visualization);**
- **Descriptive Statistics (summary Measures) using R;**
- **Hypothesis Testing – I (Parametric);**
- **Analysis of Variance (One way ANOVA, Two way ANOVA);**
- **Correlation, Simple and Multiple Linear Regression Analysis.**

## **About NERIM Group of Institutions:**

NERIM Group of Institutions is group of colleges established under NERIM Educational Society at Nabin Nagar on 16<sup>th</sup> February, 1992. These Institutions are affiliated to Dibrugarh University, Gauhati University and Assam Science and Technology University for their various courses viz. Management, Computer Science & IT, Education, Social Work, Applied Psychology, Teacher Education, Commerce and Juridical services. The institution is dedicated towards imparting quality teaching and training to the upcoming generation in skills to survive towards the competitor world.

## **Who Can Participate:**

Academicians, Faculties, Current and Prospective Research Scholars, PG Students from all disciplines or researcher who is in need of learning R programming or data analysis in R by filling up the prescribed registration form and paying appropriate fees. An applicant can send a scanned copy of the filled application form to the Co-ordinator of the training program by e-mail to [mpk.stat@gmail.com](mailto:mpk.stat@gmail.com) latest by 26.12.2018.

A maximum of 50 candidates will be selected for the training programme on First-Come-First-Serve basis.

The registration shall close once the required number of participants is attained. Thus, participants are requested to apply early and not to wait for the last date. A candidate can withdraw from the workshop at any point of time but the registration fee shall be returned

only if the withdrawal takes place on or before 28.12.2018. No certificate shall be issued to the participant, if he/she remains absent in any of the sessions.

## **Registration Fee**

**The registration fee for the participants is as follows:**

- (i) Rs. 2000/- for Faculty Members working in Universities, Colleges, Research institutes and for employed Researchers/employed Research Scholars.**
- (ii) Rs. 1500/- for unemployed full time/part time research scholars**
- (iii) Rs 1000/- for PG Students**

## **Mode of Payment**

Candidate applying for the training program are required to pay the registration fee in Cash/Multiplicity cheque to **NERIM EDUCATIONAL SOCIETY**, NERIM Group of Institutions, Guwahati-22, Assam on or before 26.12.2018 either by person or by post. The Multiplicity Cheque shall be drawn in favour of "**NERIM EDUCATIONAL SOCIETY**".

Fees can also be paid by NEFT or RTGS to the following account details, State Bank of India Bank, **IIBM**, Branch, Guwahati, Branch Code: **10669**, IFSC code: **SBIN0010669** and A/C no. **32755513971** Name of the A/C holder: **NERIM EDUCATIONAL SOCIETY**. In case of NEFT/RTGS the applicant has to mention the transaction details in the application form. The participants shall be provided with workshop kit, refreshments and lunch during the days of the training program.

**All communication to the participants shall be made via email.**

## **Accommodation, Travel Support and Food**

No accommodation or travel support shall be provided to the participants. But on demand names of some budget hotels may be forwarded to the out station participants. The participants are requested to take up their accommodation related details from those hotels or any other hotel of choice.

## **Venue**

**NERIM Group of Institutions, Guwahati**  
**PadmaNath Sarmah Bhawan,**  
**Tripura Road,**  
**Jayanagar, Khanapara, Guwahati-22**

## **Important Dates**

Last date of Submission of Application Form and Fees: **26<sup>th</sup> December, 2018**

Training Program Starts: **10<sup>th</sup> January, 2019**

Training Program Ends: **12<sup>th</sup> January, 2019**

## **Address of Correspondence**

**Manash Pratim Kashyap**

**Assistant professor**

**Department of Business Administration**

**NERIM Group of Institutions**

**PadmaNath Sarmah Bhawan, Tripura Road,**

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**e-mail: [mpk.stat@gmail.com](mailto:mpk.stat@gmail.com)**

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## Registration Form

**Name (in block letters) :**

**Educational qualification :**

**Date of Birth :**

**Sex (Male/Female) :**

**Designation :**

**Department :**

**Organization/Institution :**

**Address for Communication :**

**Vill. /Town :** \_\_\_\_\_ **P.O. :** \_\_\_\_\_ **P.S.:** \_\_\_\_\_ **Dist:** \_\_\_\_\_

**State:** \_\_\_\_\_ **Pin :** \_\_\_\_\_

**Contact No. (Mobile) :** \_\_\_\_\_ **Valid E-mail ID :** \_\_\_\_\_

**Accommodation required :** \_\_\_\_\_

**Food :** \_\_\_\_\_ : Vegetarian / Non-Vegetarian

**Are you Employed? Yes / No**

**Amount of Fees paid:**

**Mode of Payment:**

**Transaction No. (RTGS/NEFT/CASH to Account):**

**Any special requirement from the workshop which will help in your research:**

### DECLARATION

The information furnished above is true to the best of my knowledge

Date:

Signature of the Candidate

Place: