



**7 Day Training Course in Innovative Research  
Dimensions and Data Analysis in 'R'  
(January 16 to 22, 2018)**

Organized by  
Department of Statistics  
Assam University, Silchar



**COURSE CORDINATOR**

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## **About the Training Program**

Search for knowledge or any systematic exploration to institute facts is research. In the process of exploration to knowledge researchers often encounter huge numerical information. The process of exploring this body of numerical information and to attain meaningful insight from it is called data analysis. Analysis of data, is a process of inspecting, cleaning, transforming and modeling data with the goal of discovering useful information and suggesting conclusions. 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 training program is designed to orient Faculty members and Researchers in data analysis and programming from basic to advanced level. The program shall be a mix of imparting knowledge through programming in R and the use of in-built functions in R.

The training program shall inculcate confidence in the participants about the usage of statistical data analysis and programming in R that shall modify their way of encountering research data.

The prime concern of this training program is to showcase the participants some recent advances in the field of statistical research and the process of analysis of data in R. Starting from very basic some of the advanced statistical techniques both through R-programming and R-commands shall be on display in the workshop.

## **Objectives of the Training Program**

The program shall be operated through some recent advances in Statistical Research with main focus on R-programming and fundamental data analysis in R. As the applicants are expected to have some theoretical back ground in Statistics so the main focus beyond the research advances shall be on hands on training in R and practical lab sessions in R. The design of the program is to inform the participants on the following topics:

- i. Some advanced research directions in Statistics
- ii. Data management in R and Matrix Algebra
- iii. Descriptive Statistics, Graphics and Inferential Statistics in R
- iv. Performing basic statistical analysis and graphics in R
- v. Regression in R-Linear, Curvilinear and Logistic
- vi. Design and analysis of experiments, Fitting of statistical distributions and Multivariate analysis in R
- vii. Survival analysis and Numerical Analysis in R

## **About Assam University**

Assam University came into existence through Assam (Central) University Act, 1989. It was established in 1994, since then the University is steadily becoming an excellent centre of learning. The University has sixteen Schools on major disciplines. There are 39 Departments under these Sixteen Schools and 6 interdisciplinary centers. There are two campuses of Assam University-the main campus at Silchar and the satellite campus at Diphu. Currently there are around 4500 students enrolled in the different post graduate and integrated courses and around 1500 research scholars in the M. Phil and Ph. D programs.

## **About the Department of Statistics, Assam University**

The department of Statistics, under the Albert Einstein School of Physical Sciences is one of the youngest departments of Assam University, established in 2014. The mission of the department is to bring about development of the researchers in the university and beyond by providing training in data analysis. The department is located in the second floor of Physics building in a scenic set up of the university with airy class rooms. The department has procured licensed version of SPSS 23. The seminar hall of the department is equipped with uninterrupted projection facility to support software training, public address system, internet connection in the computer used for projection and power plugs provided in each desk for participants to run their laptops during practical training sessions. The department also possesses a dust free air-conditioned computer lab. Alongside its normal academic programs, the department organizes workshops on statistical tools, techniques and software for the benefit of research scholars.

## **Who Can Participate and Criteria of Selection**

Registered/enrolled Ph.D students, faculty members of any recognized university/institute or researcher who is in need of learning R programming or data analysis in R can apply in the training program by filling up the prescribed registration form and paying appropriate fees. However, since R is an open source programming language for statistical computing so participants are expected to have some basic knowledge in Statistics and working knowledge in computer based data analysis. An applicant can send a scanned copy of the filled application form to the Co-ordinator of the training program by email to [djb.stat@gmail.com](mailto:djb.stat@gmail.com) latest by 29.12.2017 along with requisite fees. The modes of payments are mentioned below.

There are only 40 vacancies for the program. Thus, it is expected that there shall be many applicants for the training program. The applicants shall be short listed based on the requirement of the applicant as shall be evident from the registration form and on first-come-first-serve basis. Preference shall be given to candidates with background knowledge of statistics and computer applications.

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. The employed applicants shall get their form forwarded by competent authority.

In case an applicant is selected to the training program he/she shall be informed by email by the Coordinator of the Training Program on or before 3<sup>rd</sup> January, 2018. In case the applicant is not selected his/her fees (submitted amount) shall be returned. 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 2<sup>nd</sup> January, 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 500/- for PG Students of the Department of Statistics, Assam University

## **Mode of Payment**

Candidate applying for the training program are required to pay the registration fee in Cash/Multicity cheque to The Office of the Head, Department of Statistics, Assam University, Silchar 788011, Assam on or before 29.12.2017 either by person or by post. The Multicity Cheque shall be drawn in favour of **“HEAD DEPT OF STATISTICS”**.

Fees can also be paid by NEFT or RTGS to the following account details, UCO Bank, Assam University Branch, Silchar, Branch Code 002005, IFSC code: UCBA0002005, MICR Code of bank: 788028005 and A/C no. 20050110033890 Name of the A/C holder: HEAD DEPT OF STATISTICS. 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 vegetarian working lunch during the days of the training program.

All selected participants shall bring their laptop during the workshop days with R loaded in it.

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**

Seminar Hall, Department of Statistics, Assam University

## **Important Dates**

Last date of Submission of Application Form and Fees: 29<sup>th</sup> December, 2017

Notification of Selection: On or before 3<sup>rd</sup> January, 2018

Training Program Starts: 16<sup>th</sup> January, 2018

Training Program Ends: 22<sup>nd</sup> January, 2018

## **Address of Correspondence**

Dr. Dibyojyoti Bhattacharjee

Professor

Department of Statistics

Assam University, Silchar-788011

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# 7 Day Training Course in Innovative Research Dimensions and Data Analysis in R

(January 16 to 22, 2018)

Organized by Department of Statistics, Assam University, Silchar

## REGISTRATION FORM

Paste Recent  
Passport Size  
photograph and sign  
across

1. Name: \_\_\_\_\_

2. Gender: 1. Male  2. Female

3. Address of Correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Email: \_\_\_\_\_ 5. Mobile no.

6. Post Graduation in (Subject): \_\_\_\_\_

6. Are you employed? 1. Yes  2. No

If yes, your designation and institution \_\_\_\_\_

7. Do you have any formal training in Statistics? 1. Yes  2. No

If Yes, provide details \_\_\_\_\_

8. Amount of fees paid \_\_\_\_\_

9(i) Mode of payment \_\_\_\_\_ (ii) Transaction no. (RTGS/NEFT) \_\_\_\_\_

10. Why do you feel that the training program is useful for you? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The information provided above is true to the best of my knowledge.

Date:

(Signature of the Applicant)

**Forwarding from the Employer (For employed applicants only)**

I forward the application of \_\_\_\_\_ for the 7 day training program in **Innovative Research Dimensions and Data Analysis in R** from 16 to 22 January, 2018 to be held at Assam University. If selected, he/she shall be allowed to join the program.

(Signature of the Head of the institution/Department, Name, address and seal)