

# **One Week Condensed Training Programme in Data Analysis Using R and SPSS**

(August 30, 2019 to September 5, 2019)

*Organized by*

Department of Statistics

Gauhati University

Venue: Department of Statistics, Gauhati University



## **COURSE CO-ORDINATORS**

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## About the Training Programme

Research is the systematic investigation undertaken to enhance or revise existing knowledge by discovering new facts. Often, in the pursuit of research, researchers encounter humungous amount of raw data. Unless the nature of the data is properly understood, one cannot proceed with extracting the information contained in the data. *Data analysis* is the process of inspecting, cleansing, transforming and modelling data with the objective of extracting useful information and thus reaching meaningful conclusions, which will eventually aid in decision-making.

Data analysis has multiple facets and it encompasses a variety of techniques, which is being used in different domains of research such as science, humanities, management, commerce, medical, engineering etc. Presently, two of the most popular data analysis softwares for researchers in science and social science/management background are **R** and **SPSS** respectively. R is an open source programming language and a free software environment for statistical computing and graphics which is supported by the R Foundation for Statistical computing. Through R, users can define their own functions as per their research needs and can contribute their development to be used by fellow researchers through *packages*. SPSS is a Windows based program that can be used to carry out data entry and extensive statistical analysis of qualitative as well as quantitative data sets. Apart from the usual statistical analysis of the data, one can manage/manipulate data sets according to their own needs (through coding, re-coding, case selection techniques etc.).

With the aim of introducing flexibility in the Indian education system, the University Grants Commission (UGC) has decided to compulsorily adopt the Choice Based Credit System (CBCS) at the undergraduate level, where the students have a choice to choose from the prescribed courses, which are referred as *Core, Elective or Minor or Soft Skill Courses* and they can learn at their own pace and the entire assessment is graded-based on a credit system. The CBCS system for holistic development of the students by allowing them to take up courses other than their core courses and makes our courses at par with the global standards. Hence, the teachers under the purview of this system need to hone their skills to cater to the demand of these updated courses. In particular, in the CBCS Undergraduate syllabus in Statistics, Skill Enhancement Courses (SECs) on different software packages such as SPSS, Excel, R, etc. have been inducted. Keeping this development in mind, this training programme has been specifically designed (but not limited to) to cater to the urgent need of the college teachers to acquaint themselves with these softwares.

The training programme aims to familiarize the participants in programming and data analysis through R and SPSS, right from the basic

level to the medium level. The training programme shall infuse confidence in the participants about the usage of R and SPSS in encountering their specific research problems and the subsequent analysis of the data.

At the end of this programme, it is believed that the participants will be able to prepare their research data for analysis in R and hence, will be able to properly analyse and reach proper conclusions about their data. The college teachers in particular, will be believed to have a grip over the basic level of the R and SPSS softwares, which will help them to teach these courses included in the curriculum, to the students.

### **About the University**

Gauhati University is the first University of North-East India, located in Guwahati, Assam, India. It was established on January 26, 1948. The University is situated to the west of Guwahati City and has 341 affiliated Colleges. It also houses the North Eastern Regional Centre of the Indian Council of Historical Research. The University has 39 Post Graduate Departments operating under six Faculties' viz., Arts, Science, Technology, Commerce & Management, Fine Arts and Law. The University's Krishna Kanta Handiqui Library is designated 'Manuscript Conservation Centre' under the National Mission for Manuscripts established in 2003 and is the largest library in Assam.

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

Department of Statistics of Gauhati University was established on January 26, 1948 located in Jalukbari area, the Western part of Guwahati city, Assam, India. It currently offers degrees of Masters of Science, Master of Philosophy, Doctor of Philosophy and Post-Doctoral research in Statistics. The objectives are to train students, to promote research and to extend frontier of knowledge in Statistics. The mission of the department is to produce Leaders in Training, Research and Innovation in the fields of theoretical and applied Statistics, Data analytics, Demography, Biostatistics, Medical Statistics, Finance related areas to suit the needs of a dynamic World. This Department has produced many renowned scholars and many of them are working throughout the world.

### **Eligibility for participation**

*Registered/enrolled M.Phil and Ph.D students, faculty members of any recognized university/college/institute in India, freelance researcher or any other interested person who is in need of gathering idea about data analysis through R programming and SPSS are eligible to applying the training programme. However, since R is an open source programming language for statistical computing and analysis using SPSS also requires a background knowledge in Statistics, the participants are expected to have*

some basic knowledge in Statistics and working knowledge in computer applications.

The maximum number of seats available for the programme is **30 (Thirty)**. The applicants shall be shortlisted on first-come-first-serve basis and the level of requirement of the programme by the applicant (to be mentioned in the registration form) shall also be taken into consideration.

### **Registration fees**

The registration fees of the participants are as follows:

- (i) **Rs. 5,000/-** for faculty members of any recognized university/college/institute in India or freelance researcher.
- (ii) **Rs. 3,500/-** for employed research scholars (those who are availing fellowship from government agencies for pursuing research).
- (iii) **Rs. 2,500/-** for unemployed full time/part time research scholars (those who are not availing fellowship from any agency for pursuing research).
- (iv) **Rs. 6,000/-** for participants belonging to a category other than the above mentioned categories.

*The registration fees will include the registration kit, tea and working lunch.*

### **Important Dates**

Training programme starts on: *30 August, 2019*

Training programme ends on: *5 September, 2019*

Last date of submission of Application Form: *5 August, 2019*

Notification of selection for participation: *On or before 7 August, 2019*

Start of submission of Registration Fees: *8 August, 2019*

Last date of submission of Registration Fees & payment receipt: *20 August, 2019*

### **How to apply**

Interested participants are required to send the scanned copy of the filled-in application form to the co-ordinator of the programme through email to [sahana.bhattacharjee@gauhati.ac.in](mailto:sahana.bhattacharjee@gauhati.ac.in), latest by August 5, 2019. Since one of the selection criteria is first-come-first-serve basis, the participants are requested to apply at the earliest. The applicant shall be informed about his/her selection status on or before 7 August, 2019. The selected participants shall have to pay the requisite registration fees and send the payment receipt pertaining to the payment

of the registration fees to [sahana.bhattacharjee@gauhati.ac.in](mailto:sahana.bhattacharjee@gauhati.ac.in), latest by 20 August, 2019.

However, in case a participant is selected for participation in the programme and he/she makes the payment, but is unable to attend the programme, his/her registration fees will not be refunded.

### **Mode of payment**

Interested candidates are required to pay the designated registration fee through NET banking (NEFT/RTGS) or direct transfer, latest by August 20, 2019 to the following account:

Account holder name: Head, Dept. of Statistics, GU

Account number: 37775730941

IFSC: SBIN0002060

Bank: SBI

Branch: Guwahati University

All selected participants shall bring their own laptop during the workshop days with R installed in it. The R installation file will be sent to the selected participants through email. All communication to the participants shall be made via email. The outstation participants are to arrange for their accommodation/fooding themselves. No DA/TA will be provided to the participants.

All communications/ enquiries related to the training programme should be addressed to the following person:

Dr. Sahana Bhattacharjee, Co-ordinator,

Assistant Professor,

Department of Statistics, Gauhati University,

Guwahati-781014, Assam, India

Email: [sahana.bhattacharjee@gauhati.ac.in](mailto:sahana.bhattacharjee@gauhati.ac.in)

Phone: +9195086-60795

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Organized by and Venue: Department of Statistics, Gauhati University

**REGISTRATION FORM**

1. Name: \_\_\_\_\_
2. Gender: Male/Female (Tick the correct option)
3. Address of correspondence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Email ID: \_\_\_\_\_ 5. Mobile No.: \_\_\_\_\_
6. Designation: Faculty member/Ph.D. research scholar/M.Phil research scholar/Freelance researcher (Tick the correct option)
7. Affiliation: \_\_\_\_\_
8. In case you are registered research scholar, are you availing any fellowship? Yes/No (Tick the correct option)  
(a) If yes, mention the funding agency: \_\_\_\_\_
9. Do you have any formal background/training in Statistics and computer applications? Yes/No (Tick the correct option)  
(a) If yes, provide details: \_\_\_\_\_  
\_\_\_\_\_
10. Explain in brief the utility of the Training programme for you: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I hereby declare that the information provided above is true to the best of my knowledge.

Date:

Place:

(Signature of the applicant)

**Forwarding from the Employer (In case of employed participants only)**

I forward the application of \_\_\_\_\_

working as **faculty member/research fellow/others (tick the correct option)** in \_\_\_\_\_

\_\_\_\_\_

for the **One Week Condensed Training Programme in Data Analysis Using R and SPSS** to be held during the period 30 August, 2019 to 5 September, 2019 at the department of Statistics, Gauhati University. If selected, he/she will be allowed to join in the program.

Name, Designation, Address

Signature of the Head of the institution/Department  
and seal