



## About the University

The Central University of Haryana (CUH) is a Central University established under the Central Universities Act, 2009 of the Parliament. It is one of the 15 Central Universities established by MHRD, Govt under the XIth Five Year Plan (2007-12). The University is fully funded by the UGC. The campus of the University is situated in 488 acres of land at Jant-Pali Villages, Mahendergarh district of Haryana from where CUH is running its academic operations. The University has been awarded with "A" grade in the first cycle of NAAC assessment and Accreditation conducted in March 2017. Presently, the University offers 86 study programmes (Diploma, UG, PG and Research) in 34 Departments under 8 different Schools of study.

# One Week Online National Workshop on Statistical Data Analysis using SPSS & R (SDASR - 6th Edition)



**Organized by**  
**Department of Statistics**  
**Central University of**  
**Haryana**

**17-21 MARCH, 2025**

## About the Department

The Department of Statistics was established in the academic session 2013-14 as a part of the School of Physical and Mathematical Sciences as an independent Department and now it comes under the School of Basic Sciences. The Department aims to provide quality education in the field of Statistics and to develop the subject of Statistics with its application and usefulness to society. The Department offers M.Sc. and Ph.D. programmes in Statistics. The Major research areas of the Department are Distribution Theory, Statistical Inference, Bayesian Inference, Censored Data, Sampling Theory, Reliability and Life Testing, Reliability Theory, Survival Analysis, Stochastic Processes and Order Statistics. The Department of Statistics, Central University of Haryana has an excellent curriculum for M.Sc. Statistics programme according to New Education Policy (NEP) 2020. The courses are designed to develop a class of analytics and inferential aptitude among the students through rigorous practical assignments.



## About the Workshop

SPSS and R are the most commonly and widely used statistical software's among students, research scholars and faculty in the world. Researchers use these software's in the fields of economics, biostatistics, social science, and political science. These are powerful statistical software's that permit users to manage, analyse, and generate graphical visualizations of data. Realizing the need of the time, the present workshop is aiming to give lectures and training on Statistical topics, namely, correlation, linear regression modelling, multivariate analysis, statistical inference, design of experiments, etc. The participants will be exposed to the statistical basics, background and fundamentals behind the tools. They will also be trained and taught, how to do such analysis through statistical software's like SPSS and R and how to interpret the outcomes.

## Major Topics to be covered in the Workshop

Tabulation and graphical representation of Data  
Different Types of Data, and handling of data  
Parametric and Non-Parametric Testing of Hypothesis  
Introduction to R and RStudio  
Data Import and Export  
Exploring data Graphically  
Descriptive Statistics  
Statistical Distributions  
Statistical tests (t, F and Z)  
ANOVA  
Goodness of fit-test  
Survival Analysis and ROC Curve  
Simple Linear Regression Analysis  
Multiple Linear Regression Analysis  
Logistic Regression Analysis  
Time Series Analysis  
Principal Component Analysis  
Introduction to SPSS  
Managing Data and file  
Transferring Data and files  
Numerical Descriptors  
Normality of Data  
Statistical tests  
Bivariate Data Analysis  
Goodness of fit-test  
Simple Linear Regression Analysis  
Multiple Linear Regression Analysis  
Principal Component Analysis

## Resource Persons/Experts

The Resource Persons/Experts are well known experts in the field of statistics and data science with excellent knowledge of SPSS and R. They have extensive experience in the applications of statistical tools in data analysis.

## Target Audience

Faculty Members, Research Scholars, Postgraduate and Undergraduate Students from all disciplines. A maximum of **100 participants** will be selected for this workshop on a First Come-First-Serve basis.

## E-Certificate

At the end of the workshop, the e-certificate will be provided to all participants who have successfully completed the assignments and minimum 75% attendance.



**IMPORTANT DATE**

**The last date of registration is March 15, 2025.**

## Organizing Committee

### Patron

Prof. (Dr.) Tankeshwar Kumar, Vice-Chancellor, Central University of Haryana

### Advisory Board

Prof. Rajesh Kumar Gupta, Dean, School of Basic Sciences, CUH

Prof. Sunita Srivastava, Department of Physics, CUH

Prof. Suneel Kumar, Department of Physics, CUH

Prof. Harish Kumar, Department of Chemistry, CUH

Prof. Antresh Kumar, Department of Biochemistry, CUH

Prof. Vikas Beniwal, Department of Microbiology, CUH

Prof. Gunjan Goel, Department of Microbiology, CUH

### Chairperson

Prof. Ranjan Kumar Sahoo, Head, Department of Statistics, CUH

### Convener

Dr. Ravinder Singh, Department of Statistics, CUH

### Organizing Secretary

Dr. Pavitra Kumari, Department of Statistics, CUH

Dr. Anoop Kumar, Department of Statistics, CUH

### Members

Dr. Priya Yadav, Department of Statistics, CUH

Mr. Satya Prakash Mishra, Department of Statistics, CUH

Mr. Ramendra Yadav, Department of Statistics, CUH

Ms. Anju Grewal, Department of Statistics, CUH

Mrs. Smrita Borthakur, Department of Statistics, CUH

Ms. Maya Kumari, Department of Statistics, CUH

Mr. Gaurav, Department of Statistics, CUH

Mr. Vishal Kumar, Department of Statistics, CUH

Ms. Rinku Poonia, Department of Statistics, CUH

Ms. Priya, Department of Statistics, CUH

Ms. Aarzo Rani, Department of Statistics, CUH

## Registration Fee and Requirements

- The registration fee is Rs. 250/- for all participants.
- No TA/DA will be paid to the participants.
- Registration is compulsory, and the online Registration Link is:

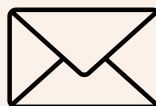


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## Contact Details

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- **Email: [statsevents@cuh.ac.in](mailto:statsevents@cuh.ac.in)**

- All are requested to please share this pamphlet of the workshop with your friends, faculty members and students so that the interested persons may get benefitted.
- Website of the Central University of Haryana: <http://www.cuh.ac.in>