



CENTRAL UNIVERSITY OF HARYANA

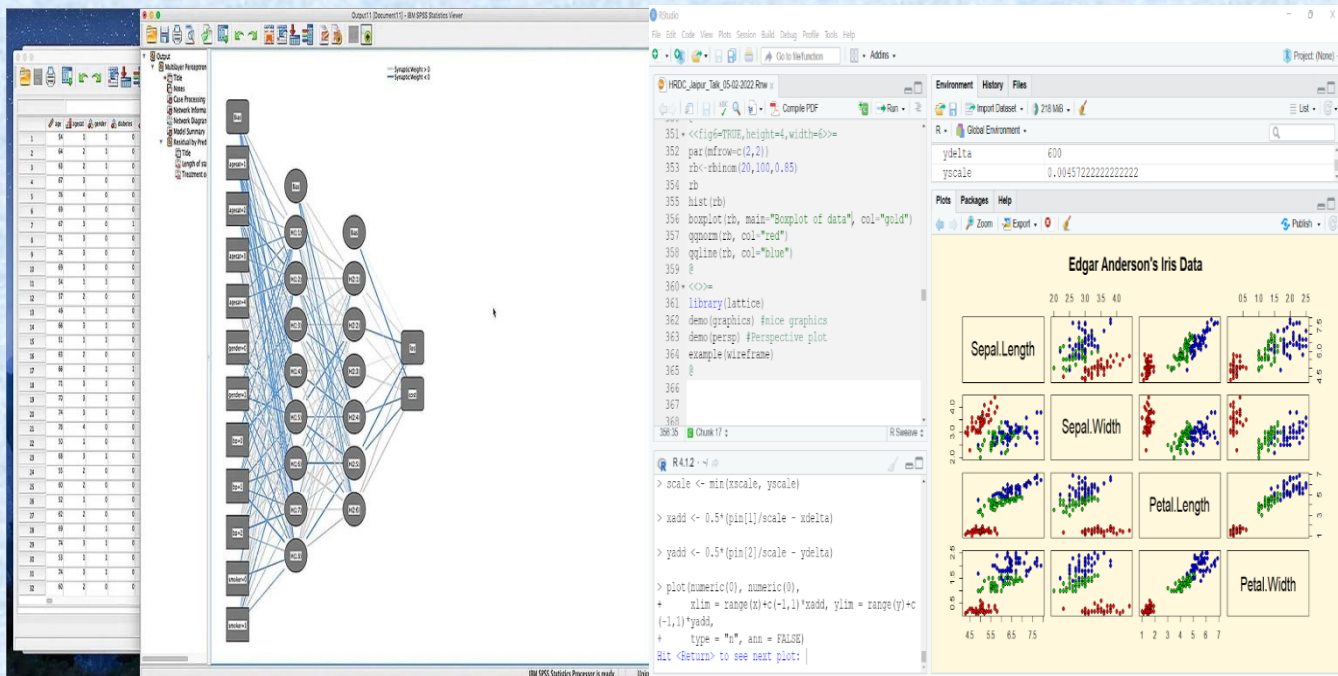
Mahendergarh, Haryana

(NAAC Accredited 'A' Grade University)

One Week Online National Workshop

on

Statistical Data Analysis using SPSS & R (SDASR)



March 20-24, 2023

Organized by

Department of Statistics

Under the Aegis of Azadi Ka Amrit Mahotsav



About the University

The Central University of Haryana 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, GoI 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, University offers 73 study programmes (Diploma, UG, PG and Research) in 33 Departments under 8 different Schools of studies.

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 aim of the Department is 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, 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 Azadi Ka Amrit Mahotsav

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of progressive India and the glorious history of its people, culture and achievements.

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 softwares in the field of economics, biomedicine, and political science. These are powerful statistical software's that

permits users to manage, analyze, and generate graphical visualizations of data. Realizing the need of the time, the present workshop is aiming to give lectures and training on the Statistical topics correlation, Linear Regression Modelling, multivariate analysis, Statistical Inference and 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

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

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:
<https://payment.cuh.ac.in/payment.php?eid=b0cefbcca5f02eefce604af504aa9d17>
- **The last date of registration is March 17, 2023.**

Organizing Committee

Patron

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

Nodal Officer, Azadi Ka Amrit Mahotsav

Prof. Sarika Sharma, Central University of Haryana

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- *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/>*