

ABOUT THE DEPARTMENT

The Department of Statistics is one of the high-ranking departments of the country with respect to teaching and research. During the past 60 years, it has earned an excellent reputation in the field of academics with specialization in Statistical Inference, Bayesian Inference, Survey Sampling, Econometrics, Bio-Statistics, Design of Experiments, Gender Statistics, Quality Management, Population Studies and other applied areas of statistics.

The department has conducted a series of summer schools, orientation programs, workshops, seminars, invited talks, training programs, national and international conferences and also extends technical assistance to the researchers of other disciplines. Faculty members of the department have been invited in Seminars and Workshops held all across India and Abroad for delivering Keynote Addresses, Invited Talks, Organizing and Chairing Sessions. Contributions of Faculty members have found place in foreign published standard text books and research journals.

ABOUT THE TRAINING PROGRAM

As part of a new initiative to expand research training for junior investigators engaged in academic research, we are conducting a series of research methods and data analysis-based workshops/ training programs.

Most research work requires students to develop a familiarity with methodologies outside of their home discipline. This training program introduces research scholars/ faculty members to key concepts, terminology and techniques in research methodologies and Data Analysis. It will provide participants with practical experience with a variety of analysis tools to help them to make decisions appropriate to the research situation.

ABOUT IBM SPSS® Statistics

The IBM SPSS® software platform offers advanced statistical analysis, a vast library of machine-learning algorithms, text analysis, open-source extensibility, integration with big data and seamless deployment into applications. Its ease of use, flexibility and scalability make IBM SPSS accessible to users with all skill levels and outfits projects of all sizes and complexity to help you and your organization find new opportunities, improve efficiency and minimize risk.

ABOUT TIBCO Statistica™

TIBCO Statistica™ named as a Leader in Gartner's Magic Quadrant for Data Science and Machine Learning Platforms provides a flexible Data Science platform combines 16,000 functions, also seamlessly integrate Open source Python, R, H2O, SPARK Scala, C#, Visual Basis & other paid algorithmic nodes, which allows users to, create analytic workflows that are packaged and published to business users, explore interactively and visualize, create and deploy statistical, predictive, data mining, machine learning, forecasting, optimization, and text analytic models.

TOPICS TO BE COVERED

- Overview of SPSS Interface
- Parametric and Non-Parametric Tests
- Correlation Research and Regression Analysis
- Hierarchical Regression and Discriminant Function Analysis
- Factor Analysis (EFA and CFA)
- Moderation and Mediation Analysis
- Text Analytics for Qualitative Research
- Analysis Through Statistica™.

“ONE WEEK HANDS-ON TRAINING PROGRAM ON ADVANCED DATA ANALYSIS USING SPSS AND Statistica™”

16th – 22nd APRIL, 2020



Organized By:

Department of Statistics

University of Lucknow

Lucknow

HOW TO APPLY

For registration, interested candidates are required to submit the **REGISTRATION FORM** (given on the university's website <http://lkouniv.ac.in>) duly forwarded by the competent authority, in the Department of Statistics.

On-Spot registration is also available.

Participants are required to submit their Registration Fees in Cash or through an A/C Payee Demand Draft in the name of the "HEAD, DEPARTMENT OF STATISTICS, UNIVERSITY OF LUCKNOW", payable at Lucknow.

The candidature of the applicants shall not be entertained in case of non-acceptance of Registration Fees and Duly filled Registration Form.

REGISTRATION FEE

PARTICIPANT	REGISTRATION FEE
Research Scholars /Students	Rs. 4000/-
Faculty Members /Corporate	Rs. 5000/-

- Course fee covers the costs of program, materials kit, refreshments, Lunch, certificate of participation.
- The number of participants has been restricted to 60 on first-come-first serve basis.
- Each participant should bring her/his laptop (32/64 bits) with following applications installed: MS office, including Word and Excel.
- Outstation Participants are required to make their own boarding and lodging arrangements.
- No TA/ DA is admissible to any participant.

PATRON

Prof. Alok Kumar Rai
Vice-Chancellor

University of Lucknow, Lucknow

ORGANIZING PRESIDENT

Dean, Faculty of Science

University of Lucknow, Lucknow

COORDINATOR

Prof. Rajeev Pandey

Head, Department of Statistics
University of Lucknow, Lucknow

CO-COORDINATOR

Prof. Sheela Misra

University of Lucknow, Lucknow

ORGANIZING COMMITTEE

Dr. Akash Asthana,

Dr. Shambhavi Mishra,

Mr. Ashok Kumar,

Ms. Anupama Singh, and Dr. Rajiv Saxena
Department of Statistics, University of Lucknow

BENEFITS TO THE INDIVIDUAL

- The program will benefit the participant to do data analysis and rule out the dependency on a Statistician.
- Real data analysis and interpretation of results.
- SPSS software (demo 20 version).
- Workshop material and E-book on SPSS.
- Participant's competency enrichment to uphold their market value in cut throat competitive paradigm.

BENEFITS TO THE RESEARCH GUIDE

- The trained research scholar will be available to them at least two/three years to help in their research.
- In addition, he/she will help other students in the group for analysis and interpretation of results
- This will also help to ensure research data integrity, which is now shared to other teacher/outsider professionals.

POTENTIAL USERS

- Statistics, Bio-Statistics and Medical Sciences
- Linguistics and Social Sciences
- Criminology
- Political Science and Economics
- Marketing Research and Management Sciences

CONTACT DETAILS

Email Id	statistics@lkouniv.ac.in
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VENUE

**Department of Statistics,
University of Lucknow,
Lucknow - 226007**



REGISTRATION FORM

1. Name (in Block letters):

2. Father’s Name:

3. Participator: Faculty Research Scholar Student Others

4. Gender: M F T

5. Educational Qualification:

6. In Case of Student:>>>>>>>>>Class.....Subject.....

7. Department:

8. University /Organization/ College/ Institute:

9. Contact No.:

10. E-mail ID:

11. Registration Fees: Amount..... Mode of Payment CASH DD

12. Accommodation required for outstation participant (Y/N): (Participants have to make their own arrangements for accommodation. We can help them in booking on prior payment basis at nearby Guest Houses / Hotels on prior information).

Forwarding Authority, Signature..... Name..... Official Seal.....
Name of the Applicant Signature..... Address..... Contact No.....

For Official use
Registration ID..... Enrollment No..... Required Fees.....

(Secretary) Date.....
(Convener) Date.....

TRAINING PROGRAM SCHEDULE AND COURSE CONTENTS

Registration and Distribution of Kits: 9 a.m. to 10 a.m. on 16.04.2020 (Thursday)

(Participants are required to reach the venue by 8:30 a.m. on 16.04.2020)

DATES & DAYS	TIMINGS			
	I (10:00 a.m. – 11:30 a.m.)	II (11:45 a.m. – 13:15 p.m.)	III (14:00 p.m. – 15:30 p.m.)	IV (15:45 p.m. – 17:00 p.m.)
DAY 1 Thursday 16.04.2020	(10.00 - 10.50) Inaugural	(11.00 – 13:15) Statistics – Introduction & its application & Overview of SPSS Software	Interface of SPSS: Data nature, Preparation and Right Statistical Methods, Frequencies, Descriptive Statistics Coding, Recoding and Transformation of variables, Merging and Splitting of files & Hands-on-Practice (LAB)	
DAY 2 Friday 17.04.2020	Assumptions of Parametric Tests, Parametric & Non-Parametric Tests & Hands-on-Practice (LAB)		Graphical Representation (Curves and Diagrams) & Hands-on-Practice (LAB)	
DAY 3 Saturday 18.04.2020	Text Analytics for Qualitative Research		Demonstration & Hands-on-Practice (LAB)	
DAY 4 Sunday 19.04.2020	CFA & SEM with AMOS Hands-on-Practice		Moderation and Mediation Analysis With Process Macro & AMOS Demonstration & Hands-on-Practice (LAB)	
DAY 5 Monday 20.04.2020	Correlation Research & Regression Analysis		Demonstration & Hands-on-Practice (LAB)	
DAY 6 Tuesday 21.04.2020	Exploratory Factor Analysis & Linear Discriminant Analysis		Demonstration & Hands-on-Practice (LAB)	
DAY 7 Wednesday 22.04.2020	Data Science Overview, Trends, Technology & Application using Statistica™ Topics: Linear (Multiple Regression)/ Non-Linear (Logistic) Regression Artificial Intelligence (AI, Neural Network) Machine Learning (ML) Support Vector Machine (SVM). <i>For each topic, Case study, step-by-step examples & hands-on-session will be presented.</i>		Case study, step-by-step Demonstration & Hands-on Practice (LAB)	(15:30 - 16.00) Discussion, analysis and interpretation shared by Participants
				(16:15 – 17:00) Valedictory & Certificate Distribution