



# 5<sup>th</sup> One Week Online Workshop on Optimizing Statistical Insights: Advanced Data Analysis with SPSS

**May 21-27, 2024**

*Organized by*

**International Institute for Special Education (IISE), Lucknow**  
(Affiliated to AKTU & Approved by AICTE)

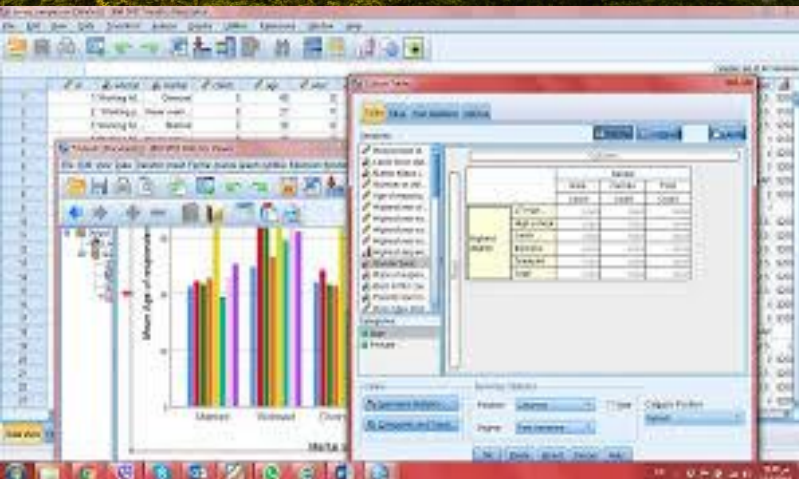
*In Collaboration with*

**Science Tech Institute, Lucknow, UP**

**(Run by: Manraj Kuwar Singh Educational Society )**

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# 5<sup>th</sup> Online Workshop on Advance Statistical Data Analysis using SPSS

May 21 – 27, 2024

**International Institute for Special Education (IISE), Lucknow and Science-Tech Institute, Lucknow** is going to organize **5<sup>th</sup> One week Online Workshop on Optimizing Statistical Insights: Advanced Data Analysis with SPSS during May 21-27, 2024**. This Workshop will provide a platform to the researchers and academicians to enrich their methodological and analytical skills.

## International Institute for Special Education (IISE), Lucknow

The class and culture of International Institute for Special Education (IISE), Lucknow is as rich as the city in which it is located. IISE is not merely a Management, IT school and Mass Comm. College, but an Institution that acts as a conversion centre where budding professional are transformed into potential managers; equipped with all necessary skills and ethics required to succeed in the corporate world.

IISE is committed towards offering quality education and ensuring placements for students for a affordable fee. Its sprawling lush green campus means the students can look beyond the usual concrete jungles and study in the lap of nature. IISE focuses on holistic development of the students by providing them exposure based management, IT and Mass Communication education. With consistent efforts, we convert the students into human capital and this metamorphosis ultimately leads the students to success. IISE's concern for the welfare of its students lies in its inherent philosophy—'Of the students, by the students, for the students'

## Science-Tech Institute(Run by: MKS Educational Society Lucknow)

The Science-Tech is one of the premier Institutes of Lucknow dedicated to organize various academic activities like Conferences, FDP, seminars, workshops and Training programme and Certificates Course in collaboration with many National & International organizations and Institute have own Publications House and Journals to be publish various fields of books, Research papers and Magazine. The Institute is run by Manraj Kuwar Singh Educational Society, Lucknow. The Society is working for the development of deprived socio-economic students by providing them quality education.



# About The Workshop

Research is the systematic and objective process of gathering, recording and analyzing data for taking appropriate & meaningful decisions. It connotes patient study and scientific investment, wherein the researcher takes a more careful look at data to discover all that could be known more deeply about the subject under study. Applied research facilitates managerial decision- making and reduces uncertainty.

To keep pace with the recent advancement in any discipline, one has to be well versed with the latest analytical techniques. Keeping in view the importance of statistical data analysis, **Workshop on Optimizing Statistical Insights: Advanced Data Analysis with SPSS** aims to explore the basic dimensions of data analysis for decision making.

In this training program we are exploring basic statistical techniques used in bio medical and social science research and hands on SPSS software for advance statistical data analysis through online interactive and practice sessions along with theory behind. Training sessions are structured to cover the topics outlined in the schedule. The topics have been so chosen that the intricacy of research methods and data analysis may be understood by participants. Sample data set to analyze and study material and video lectures will be shared by emails to the participants for practice and to gain confidence to handle their respective data while conducting researches in their respective subject domains.

## Objective

The course will explain the fundamental concepts of advance statistical data Analysis techniques using SPSS . It will be delivered through video lectures and reading materials.

## Methodology

The methodology of the course will comprise of:

- Online lecture
- Participatory discussion
- Demonstrations
- Problem solving (exercises and data analysis in each sessions).

## Duration & Time

**One Week Date: 21 - 27 May, 2024 Time: 6:30 PM to 8:30 PM.**

## Nature of Participants

Faculties, Residents from Medical Colleges, Nursing Colleges, Agriculture College, Law College, Engineering, College, SIHFW and Demographers, Epidemiologist, Statistical officer, Data Analyst and other researchers who are interested to learn data from Govt. and Pvt. organizations are eligible to apply and also all Faculty members (regular/ad-hoc/temporary/guest) from any Indian/Foreign University/College, Ph.D. (Research Scholars) and UG, PG Students of MBBS & MD, B. Tech & M. Tech. , B.Sc.& M. Sc. BCA & MCA, B. Com. & M. Com. LLB and LLM of all the discipline.

Date and Time	Course Content
<p><b>Day- 1</b> ( 21 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<ul style="list-style-type: none"> <li>❖ Descriptive Statistics</li> <li>❖ Graphical representation of Data</li> <li>❖ Testing of Normality</li> <li>❖ Testing of Homogeneity</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day- 2</b> (22 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<p><b>Parametric Tests</b></p> <ul style="list-style-type: none"> <li>❖ One sample t-test</li> <li>❖ Independent t-test</li> <li>❖ Paired t-test</li> <li>❖ ANOVA</li> <li>❖ Repeated measures ANOVA</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day- 3</b> (23 May, , 2024) Timing: 06:30 PM- 08.30 PM</p>	<p><b>Non Parametric Tests</b></p> <ul style="list-style-type: none"> <li>❖ Mann Whitney U-test</li> <li>❖ Wilcoxon Rank Signed test</li> <li>❖ Kruskal Wallis Test</li> <li>❖ Friedman ANOVA</li> <li>❖ Chi square test</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day- 4</b> (24 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<ul style="list-style-type: none"> <li>❖ Bivariate Regression Analysis</li> <li>❖ Logistic Regression Analysis</li> <li>❖ Multinomial Logistic Regression Analysis</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day- 5</b> (25 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<ul style="list-style-type: none"> <li>❖ Exploratory Factor Analysis</li> <li>❖ Interpretation of Exploratory Factor Analysis</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day-6</b> ( 26 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<ul style="list-style-type: none"> <li>❖ Cluster Analysis</li> <li>❖ Interpretation of Cluster Analysis</li> </ul> <p>Case Studies with Hands on SPSS</p>
<p><b>Day- 7</b> (27 May, 2024) Timing: 06:30 PM- 08.30 PM</p>	<ul style="list-style-type: none"> <li>❖ Discriminant Analysis</li> <li>❖ Interpretation of Discriminant Analysis</li> </ul> <p>Case Studies with Hands on SPSS</p>

# Workshop Rule

## Highlights of the Workshop-

1. **Registered participants will get certificates mentioned with Credit Hour.**
2. Study material in the form of ppt and video recording of all sessions will be provided to all registered participants.
3. **Workshop** by Subject Experts from and other reputed Institute & Universities
4. **Workshop** will be on the Zoom meeting platform.

For further queries, please mail us at:

[sciencetech487@gmail.com](mailto:sciencetech487@gmail.com)

## REGISTRATION & PAYMENT DETAILS

### Details of Registration Fees:

1. For Indian Participants : **INR 600/- (Non-Refundable)**
2. For Foreigner : **USD(\$ 10/- (Non-Refundable)**

**For registration & payment please click on the given link:**

<https://sciencetechinstitute.com/5th-one-week-online-workshop-on-optimizing-statistical-insights-advanced-data-analysis-with-spss-during-may-2024/>

**Note:** Last of Registration 20<sup>th</sup> May 2024 till mid night

After successful registration , the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder. An official group has been made for communication with the participants on “Whatsapp.” The link to join the official group will be provided in the confirmation mail.

## About Resource Persons

**Prof. Gyan Prakash Singh** is Professor of Statistics in the Department of Statistic, Banaras Hindu University, Varanasi. From last 22 years he involved in teaching and research. Before joining the Department of Statistics, BHU he was in the Department of Community Medicine, Institute of Medical Sciences, BHU for 10 years, where key role was to equip the students of Master of Health Statistics in the field of Biostatistics. He also shaped the Division of Biostatistics as Professor Incharge which was latter converted into Centre of Biostatistics. He also introduced Bayesian Data analysis in the course curriculum of Biostatistics Division.



**Dr. Borsha Neog** obtained her B.Sc. from Jagganath Barooah College, Jorhat, Assam. She has completed his M.Sc. & MPhil in Statistics from Dibrugarh University, Dibrugarh. Currently she is serving as an Assistant Professor, department of Agricultural statistics, Assam Agricultural University, Jorhat. She has participated many national and international level workshops & conferences as well as presented her research work in national & nternational conferences. She has invited as a resource person in national level workshop. Her research interests focus on forecasting, machine learning and time series analysis.



**Dr. Anup Kumar** is, Associate Professor, Department of Biostatistics, & Health Informatics, SGGGIMS, Lucknow has completed his Ph.D. from Banaras Hindu University, Varanasi in the field of Mathematical Modeling of Human Fertility in 2012. Currently his area of interested is Stochastic Modelling, Big Data Analysis, Text Mining and Biostatistics. He has published more than 20 research articles in reputed international and national journal. He has delivery more than 25 talks on applied statistics at various national level workshop. Working software for data analysis are R & SPSS.



**Dr. S. K. Yadav** is currently working as Associate Professor at Department of Statistics, Baba saheb Bhimrao Ambedkar University (A Central University), Lucknow. He did his M.Sc. and Ph.D. from Department of Statistics, University of Lucknow. He has teaching and research experience of more than 10 years in the field of Statistics. He has published more than 100 research papers in various national and international journals. He has delivered many invited talks in the National and International Conferences. His areas of research include Sampling theory, Regression Analysis and Operations Research.



**Dr. Ranjit Kumar Paul** is Senior Scientist at IASRI, New Delhi. He has published many research paper in national and international journals. He has published two books. He received the Young Scientist Award in Social Science for the biennium 2015-16 by National Academy of Agricultural Sciences (NAAS), he Received ICAR Lal Bahadur Shastri Outstanding Young Scientist Award in Social Sciences for 2016.



**Dr. Gayatri Vishwakarma** is an experienced Biostatistician having 14+ years of post-PhD work experience in academics and research. Dr. Gayatri is currently working with ISIC as Head-Biostatistics. She worked as Biostatistician with Department of Research at Rajiv Gandhi Cancer Institute, New Delhi. She worked as Visiting Scientist at University of Texas Health Science Center, Tyler TX, USA. She also worked as Monitoring & Evaluation Specialist in Woodward Charitable Foundation, Ethiopia. Dr. Gayatri has also been active in the statistical research community with a primary focus on sample size calculation and survival analysis. She has got PhD in Statistics from Jabalpur University and post-doctoral training at University of Saskatchewan, Canada. .



**Dr. Manoj Kumar**, is working as an Assistant Professor in Centre for Economic Studies and Planning (CESP), Jawaharlal Nehru University, New Delhi. He is teaching statistics, Health Economics, Biostatistics, Econometrics, Research Methodology papers as well as software's like SPSS, SAS, R, AMOS in university. He has various project related to Clinical Research, Dental, Physiotherapy and Social Sciences at university as well as for other organization, to his credits. He has good publication. He was former Biostatistician for prestigious Clinical Research organization like CliniRx Research Pvt. Ltd., Fortis Clinical Research, Invetiv (GSK) etc... At present, Dr. Manoj is visiting faculty in Clinical Research Education and Management Academy (CREMA), Delhi Tool Engineering Institute as well as in other organizations for the Biostatistics, SAS, SPSS. He is also a member of Data Safety Monitoring Board (DSMB) of various studies of Clinical trial.



He delivered more than 100 lectures in FDP/workshop/training programme/ PMMMNTT – MHRD Induction programme and delivered lectured in various intuitions, central universities.

# Organising Team of the Workshop

## Chief Patron



**Prof. D.S. Hooda**  
(Former PVC, Kurukshetra University)  
Rohtak-124001(Haryana)

## Patrons



**Ms. Firdous Siddiqui**  
Honourable President  
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**Prof. Somesh Kumar Shukla**  
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## Co-Convener

## Senior Advisor

## Senior Advisor

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