



ONE WEEK ONLINE WORKSHOP ON RESEARCH METHODOLOGY & DATA ANALYSIS

(April 22nd - 28th, 2024)

Organized by

IQAC, Mata Sundri College for Women

(University of Delhi)

&

**Resilient Foundation For Academic Innovation & Scientific
Research, New Delhi**

(Registered with NITI Aayog, Govt. of India)

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About Mata Sundri College for Women, University of Delhi:

Mata Sundri College for Women is a constituent college of University of Delhi. The college was founded on 17 July 1967 by the Gurdwara Parbandhak Committee, Delhi State. It caters to education of young women preparing them for life by promoting their intellectual sensitivities. We are proud to have a strength of 4066 vibrant young women in the college. There are 166 distinguished faculty members and 64 members of the Non-teaching Staff. With its extremely well-qualified teaching faculty and an efficient support staff backing them, the college provides an ideal learning environment for the young women as they embark on their journey of life, giving shape to their most cherished dreams and wings to their creative pursuits.

About Resilient Foundation :

Resilient Foundation for Academic Innovation & Scientific Research, New Delhi is a not-for-profit organization registered under section 8 of the companies' act 2013, India. The organization is established having primary aim to promote academic & research activities through knowledge sharing, innovation, skill development and capacity building in various sectors like academia, industry and government for betterment of society. For more details please visit

<https://theresilientfoundation.org/>

Objective of the Workshop:

During the COVID-19 pandemic, the virtual academic engagement is resultant more productive and gives a better outcome. Keeping in view of the immense benefits of the online workshop in the present educational set-up, Mata Sundri College for Women, New Delhi & Resilient Foundation for Academic Innovation & Scientific Research, New Delhi are pleased to offer **One Week Online Workshop on Research Methodology & Data Analysis** for the faculty members, research scholars, health professionals, industry personals, researchers and UG/PG students in the country from **22nd -28th April 2024**. The workshop aims to bring together faculties, researchers, and research scholars to exchange and share their experiences and research results on all aspects of Research Methodologies and data analysis.

The expected outcome of the workshop:

At the end of workshop, participants would be able to:

- Design the research question
- Conduct the review of literature with advanced tools
- Design the hypothesis
- Identify suitable sampling techniques
- Determine the appropriate sample size
- Apply parametric & non parametric statistical tests
- Prepare the dissertation and publish research paper in reputed journals

THE COURSE CONTENT OF THE WORKSHOP

Day	Topics Covered	Date & time
Day-1	<ul style="list-style-type: none"> ▪ Introduction to Research ▪ Formulating research question ▪ Setting of Hypothesis 	Date: 22 nd April, 2024 Time: 06:30 PM-08:30 PM
Day-2	<ul style="list-style-type: none"> ▪ Review of literature ▪ Application of AI-Based advanced tools for review of literature 	Date: 23 rd April, 2024 Time: 06:30 PM-08:30 PM
Day-3	<ul style="list-style-type: none"> ▪ Data Collection Tools ▪ Various Sampling Techniques 	Date: 24 th April, 2024 Time: 06:30 PM-08:30 PM
Day-4	<ul style="list-style-type: none"> ▪ Sample Size Calculation for different research studies Hands on G*Power software	Date: 25 th April, 2024 Time: 06:30 PM-08:30 PM
Day-5	Statistical Data Analysis –I <ul style="list-style-type: none"> ▪ Measurement Scales ▪ Descriptive Statistics ▪ Graphical representation of data Parametric Tests: t-test (one sample, two samples), Paired-t test, ANOVA Hands on SPSS	Date: 26 th April, 2024 Time: 06:30 PM-08:30 PM
Day-6	Statistical Data Analysis –II Non-Parametric Tests Wald-Wolfowitz runs test, Mann-Whitney U test Kruskal-Wallis test, Median Test, Sign test, Wilcoxon’s matched pairs test, Chi square test Hands on SPSS	Date: 27 th April, 2024 Time: 06:30 PM-08:30 PM
Day-7	<ul style="list-style-type: none"> ▪ Report Writing ▪ Research Publication ▪ Concept of Plagiarism 	Date: 28 th April, 2024 Time: 06:30 PM-08:30 PM

Methodology

- Online live classes by eminent experts from reputed organizations of the country
- Participatory discussion with Q&A
- Demonstrations
- Exercises and data analysis sessions using SPSS
- Study materials such as ppt & recordings of the all sessions

Nature of Participants

Faculties, research scholars, medical students, post-doctoral fellows, industry professionals , UG, PG students etc.

Duration &Time

One Week (22nd -28th April, 2024)

Timing (02 Hours): 06:30 PM-08:30 PM

Registration Process:

Step-I: Fee Payment:

1. Registration Fee for UG/PG students = Rs. 200/-

Payment link for UG/PG students

<https://pmny.in/SIUJHmykxd3>

2. Registration Fee for faculties/research scholars/ industry = Rs. 600/-

Payment link faculties/research scholars/ industry persons

<https://pmny.in/NrfJCavnwAwU>

Step-II After payment, please make registration through the given google form
(Please attach screenshot of your payment)

Registration Form (for all participants)

<https://forms.gle/L3aZvghjwgpH6doJA>

Step-III: After submitting google form, you will get confirmation on your registered email from organizers in which link for joining official what's app group will be shared.

Workshop Rule

Highlights of the Workshop-

1. Registered participants will get e-certificates
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 reputed Institute & Universities
4. **Workshop** will be on the Zoom meeting platform.

For further queries, please mail us at : resilientfoundation123@gmail.com
or call at +91-8840112492.

Last Date of Registration: 20th April, 2024

About Resource Persons

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.



Dr. Gayatri Vishwakarma is an experienced Biostatistician having 14+ years of post-PhD work experience in academics and research. Dr. Gayatri is currently working as Principal Scientist at ZYDUS Life Sciences, Ltd., Ahmedabad, Gujrat. She has been the Head- Biostatistics at ISIC, New Delhi. 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



Dr. Anup Kumar is, Associate Professor, Department of Biostatistics, & Health Informatics, SGPGIMS, 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.



Dr. D.K.Yadav is currently working as Assistant Professor at National Institute of Health & Family Welfare (NIHFW), New Delhi. He has done his M.Sc. & Ph.D. in Statistics from University of Lucknow. Dr. Yadav has published more than 50 research articles in various national and international journals. He is editor of 10 edited books. He has received various national and international awards for his outstanding research.



Dr Vinit Kumar is Assistant Professor at Dept. of Library & Information Science, Baba saheb Bhimrao Ambedkar University (A Central University), Lucknow. He completed his Ph.D. from Indian Statistical Institute, Kolkata. He has more than 12 years teaching and research experience. His areas of expertise are research methodology, AI & ML and text mining.



Dr. Yusuf Akhter is Assistant Professor at Dept. of Biotechnology Babasaheb Bhimrao Ambedkar University,. He has completed his Ph.D. from European Molecular Biology Laboratory, Hamburg Germany/Center for DNA Fingerprinting & Diagnostics, Hyderabad, India. He has been DAAD Post Doctoral Fellow at European Molecular Biology Laboratory, Hamburg, Germany He has more than 120 publications in various journals of national and intgernational repute.



Organising Team of the Workshop



Patron

Prof. (Dr.) Harpreet Kaur
Principal
Mata Sundri College for Women
(University of Delhi)

Co - Patron



Prof. D.S.Hooda
(Former PVC, Kurukshetra University), Honorary Professor, GJ University of Science & Tech, Hisar



Prof. D.K.Sharma
University of Maryland, USA



Mrs. Richa Singh
Director
Resilient Foundation for Academic Innovation & Scientific Research, New Delhi

Workshop Coordinators



Dr. Lokesh K.Gupta
Director, IQAC
Mata Sundri College for Women
(Convenor)



Dr. Meenu Goel
Assistant Professor
Mata Sundri College for Women
(Organizing Secretary)



Dr. D.K. Yadav
Assistant Professor
NIHFW, New Delhi
Nodal Officer, Mission Karmayogi
MoHFW, Govt. of India
(Organizing Secretary)

Advisory Board

Prof. (Dr.) Poonam Singh, Department of Statistics, University of Delhi
Prof. (Dr.) Ranjita Pandey, Department of Statistics, University of Delhi
Prof. Padam Singh, Ex-ADG, ICMR, New Delhi
Prof. Sharvari Shukla, Symbiosis Statistical Institute, Pune
Prof. Shakti Kumar, JNU, New Delhi
Dr. Harinder M. Sandhu, Mata Sundri College for Women, DU
Dr. Manisha Mathur, Mata Sundri College for Women, DU

Co - Coordinators

Dr. Komal Goel
Dr. Mandeep Kaur
Ms. Varsha
Dr. Kalpana Sharma
Dr. Priyadarshini Bhattacharyya
Ms. Divya S. Gupta