

## **WORKSHOP ON RESEARCH METHODOLOGY AND DATA ANALYSIS**

**22nd - 28th APRIL, 2024**

### **REPORT**

The one-week online workshop on Research Methodology & Data Analysis, organized by the Internal Quality Assurance Cell (IQAC), Mata Sundri College for Women, in collaboration with Resilient Foundation for Academic Innovation & Scientific Research, registered with NITI Aayog, Government of India, proved to be a transformative experience for all participants.

Under the esteemed patronage of Prof. Dr. Harpreet Kaur, Principal of Mata Sundri College for Women, and co-patrons Mrs. Richa Singh, Dr. D.K. Sharma, Prof. D.S. Hooda, the workshop commenced with an invigorating address highlighting the indispensable role of research skills in today's academic and professional milieu.

The workshop coordinated by Dr. Lokesh K. Gupta, Director of IQAC Mata Sundri College for Women (Convenor), Dr. Meenu Goel, Assistant Professor at Mata Sundri College for Women (Organizing Secretary), and Dr. D.K. Yadav, Assistant Professor at NIHF, New Delhi, Nodal Officer, Mission Karmayogi MoHFW, Govt. of India (Organizing Secretary), along with additional coordinators Dr. Komal Goel, Dr. Kalpana Sharma, Ms. Varsha, and Ms. Divya S. Gupta, the workshop covered a diverse range of topics crucial for research advancement.

The workshop commenced with an overview session introducing participants to the fundamentals of research, including formulating research questions and setting hypotheses. Dr. D.K. Yadav, Assistant Professor at the Dept. of Statistics & Demography, NIHF, New Delhi, provided insights into these foundational aspects. There are approximately 380 participants in the workshop. On second day Participants delved into practical aspects such as data collection tools and various sampling techniques. Statistical data analysis took center stage, covering measurement scales, descriptive statistics, and graphical representation of data. Participants gained practical experience with parametric tests like t-test and ANOVA using SPSS under the guidance of experts. This workshop also discuss non-parametric tests, including Wald-Wolfowitz runs test and Mann-Whitney U test, further expanding participants' analytical skills. Attendees explored essential skills for effective research communication, including report writing and research publication ethics. They also gained an understanding of the importance of avoiding plagiarism in academic writing. The workshop concluded with guest lectures by industry professionals, including Dr. Gayatri Vishwakarma and Dr. Yusuf Akhter, who shared their expertise on research methodologies in specific fields. The workshop on Research Methodology & Data Analysis served as a valuable platform for participants to enhance their research skills and gain insights from esteemed experts in the field. Through a comprehensive curriculum and interactive sessions, participants were equipped with practical knowledge and tools to advance their research endeavors, contributing to the growth and development of academic and professional communities.