

# **FACULTY DEVELOPMENT PROGRAMME**

**Organized**

**by**

**Faculty Development Program (FDP) Report**

**On**

**Research Analytics for Social Sciences**

**Organized by**

**AIU-VGU-AADC, Vivekananda Global University, Jaipur, and Jindal Center for Global South, in collaboration with the Jammu and Kashmir Economic Association and The Cafe Economics.**

**In**

**ONLINE MODE**

**21st – 30th January 2025**

## **Introduction**

The Faculty Development Program (FDP) on Research Analytics for Social Sciences was conducted to provide hands-on training in research methodologies, statistical techniques, and analytical tools for social science research. The workshop aimed to equip researchers, academicians, and professionals with essential skills in conceptualizing research topics, conducting systematic literature reviews, applying statistical tools, and integrating AI in research.

The 10-day workshop featured expert sessions, interactive discussions, and practical demonstrations, covering various aspects of research analytics in social sciences.

## **Day 1 – Tuesday, 21st January 2025**

### **Inaugural Address and Keynote Sessions**

- **Keynote 1: "Essential Soft Skills in a Data-Driven World"**  
Speaker: Dr. Nandini Kannan  
Focus: The significance of communication, problem-solving, and analytical thinking in the research domain.
- **Keynote 2: "Emergence of Big Data and AI in Social Science Research"**  
Speaker: Prof. (Dr.) Hebatallah Adam  
Focus: Role of AI and big data in transforming social science research methodologies.

## **Day 2 – Wednesday, 22nd January 2025**

Session 1: Conceptualization of Research Topic

Speaker: Dr. Bhagirath Baria

Focus: Understanding how to identify research gaps, formulate research questions, and establish objectives.

## **Day 3 – Thursday, 23rd January 2025**

Session 1: Systematic Literature Review

Speaker: Dr. Meenakshi Kumari

Focus: Introduction to literature review techniques, database searches, and referencing tools.

## **Day 4 – Friday, 24th January 2025**

Session 1: Data Collection Strategies

Speaker: Professor Navita Nathina

Focus: Designing surveys, choosing data sources, and handling biases in research data.

## **Day 5 – Saturday, 25th January 2025**

Session 1: Analyzing Data Using Descriptive Statistics (MS Excel)

Speaker: Dr. Naveed Ahmad Lone

Focus: Hands-on training in descriptive statistics using MS Excel, including measures of central tendency and variability.

## **Day 6 – Sunday, 26th January 2025**

Session 1: Graphing Techniques and Correlation Analysis (E-Views)

Speaker: Dr. Prashant Vadikar

Focus: Data visualization, scatter plots, and correlation analysis using E-Views.

## **Day 7 – Monday, 27th January 2025**

Session 1: Regression and Logit Model (E-Views)

Speaker: Dr. Silky Vigg Kushwah

Focus: Introduction to regression analysis, logit models, and their application in social sciences.

## **Day 8 – Tuesday, 28th January 2025**

Session 1: Econometric Methods for Social Sciences (Gretl)

Speaker: Dr. Bhagirath Baria

Focus: Understanding econometric models and data analysis using Gretl software.

### **Day 9 – Wednesday, 29th January 2025**

Session 1: Handshake with Smart PLS

Speaker: Dr. Sneha Rajput

Focus: Application of Partial Least Squares Structural Equation Modeling (PLS-SEM) in research.

### **Day 10 – Thursday, 30th January 2025**

Session 1: Use of AI for Research Design

Speaker: Dr. Ridhima Sharma

Focus: Integration of AI tools in research design, data processing, and analysis.

Session 2: Panel Discussion and Valedictory Session

Panelists: Dr. Ram Pratap Sinha, Dr. Firdous Ahmad Malik, and Dr. D.K. Yadav

Focus: Summary of the key learnings from the workshop, participant feedback, and closing remarks.

### **Outcome**

The FDP successfully enhanced participants' skills in research analytics by providing practical exposure to statistical and econometric tools like MS Excel, E-Views, Gretl, Smart PLS, and AI-driven research techniques. Participants gained knowledge of research conceptualization, literature reviews, data analysis techniques, and AI applications in social sciences.

The feedback from attendees was overwhelmingly positive, highlighting the practical applications of the training sessions. The program significantly contributed to capacity building in research methodologies for social scientists.

## **GLIMPSES OF FDP**



