



One-Week Faculty Development Programme On Research Methodology and Data Analytics

A hands-on Training Programme

MODE: VIRTUAL

July 18th – July 24th, 2025

FDP: 1.0

Organized By
University of Ladakh

In collaboration with
Hindu College Moradabad
(Affiliated to Guru Jambheshwar University Moradabad, Uttar Pradesh)
&
Department of Agricultural Economics, Banaras Hindu University, Uttar Pradesh
&
Department of Agricultural Economics, Rajiv Gandhi University, Arunachal Pradesh

CONCEPT NOTE

The scholarly and research landscape is continually evolving, particularly with the introduction of the National Education Policy (NEP) 2020, which is expected to prompt academicians and researchers to address and adapt to the challenges posed by these emerging paradigms. Research methodologies are also constantly being updated with the introduction of new innovations and software tools.

The field of research is witnessing significant changes, especially in approaches that deal with Mixed Methods Research (both Quantitative and Qualitative). Consequently, research and development have become essential components not only in academic institutions but also across industries. Therefore, a Faculty Development Programme (FDP) on research methodology would be of great value.

This one-week FDP focuses on various aspects of both Quantitative and Qualitative Research Methods. It does not aim to confine itself to the theoretical domains of research alone. Rather, it will enable participants to understand data, apply different statistical tests and techniques, and utilize software for practical research applications. Additionally, it will cover the effective reporting of research outcomes.

This FDP is designed to offer a comprehensive package of essential research methodologies, blending both quantitative and qualitative approaches. It promises to be a valuable learning journey through the diverse facets of modern research.

UNIVERSITY OF LADAKH

The University of Ladakh (UoL) is the first and only public university in the Union Territory of Ladakh, established on 16th December 2018 through the University of Ladakh Act. With its headquarters in Leh and an additional campus in Kargil, the university also integrates six government degree colleges located across remote regions like Leh, Kargil, Nubra, Zaskar, Drass, and Khalatse, offering inclusive access to higher education. UoL is committed to provide quality education and research tailored to the unique Trans-Himalayan environment. It offers undergraduate, postgraduate, doctoral, and certificate programs in diverse disciplines including Economics, Forensic Science, Tourism, Environmental Science, Geology, Education, Arabic, Botany, Disaster Management, Social Sciences and Agricultural Economics. The university places a strong emphasis on regional relevance by focusing on mountain agriculture, biodiversity, climate change, and eco-tourism. Fully aligned with the National Education Policy (NEP) 2020, the University of Ladakh has comprehensively implemented its reforms, including the adoption of Academic Bank of Credits (ABC ID) for every student, enabling seamless credit transfer, multiple entry and exit options, and lateral academic mobility through a flexible modular structure. The university has also developed state-of-the-art laboratories dedicated to high-altitude and mountain-specific research. In addition to academic excellence, UoL actively works to preserve and promote the rich cultural heritage of Ladakh. Through dedicated programs, research centers, and documentation efforts, the university safeguards traditional knowledge systems, indigenous languages, folk arts, crafts, rituals, and oral histories.

Under the leadership of Hon'ble Vice-Chancellor Prof. Saket Kushwaha, a renowned agricultural economist, UoL has rapidly emerged as a center of innovation and research. It has established academic and research collaborations with National and International Institutions, including the Indian Institute of Science (IISc), National Remote Sensing Center (NRSC), and Heidelberg University, Germany. One of its most pioneering initiatives is the Ladakh Human Analogue Mission, in partnership with ISRO and IIT Bombay, simulating human settlement for space exploration. The university also contributes significantly to community development through skill-based training programs, local entrepreneurship promotion, and heritage conservation. With modern infrastructure, research capabilities, and a commitment to inclusive growth, the University of Ladakh is a symbol of educational and cultural advancement in one of India's most ecologically and historically distinctive regions.

HINDU COLLEGE MORADABAD

Hindu College, Moradabad is one of the oldest and most renowned institution of western U.P. The college started its journey as Junior High School in 1911, later on, it got affiliation for High School in 1916 and for Intermediate in 1937. The college got the status of Graduate in 1949 and Post Graduate in 1950. The college is situated in the heart of the city near to Railway and Bus station. The college possesses a lush green vast campus for healthy and soothing environment for teaching and learning. The college is well equipped with central and departmental library, laboratories, lecture halls, playground, girl's hostel and a small community clinic. Initially Hindu College was affiliated with Agra University. Later on it became the part of Mahatma Jyotiba Phule Rohilkhand University (MJPRU) following its establishment in 1973. Currently, It is affiliated with Guru Jambheshwar University, Moradabad. The college is being aptly managed by renowned scholars, erudite and diligent civilians of Hindu Educational Society.

DEPARTMENT OF AGRICULTURAL ECONOMICS, BANARAS HINDU UNIVERSITY (BHU)

The Department of Agricultural Economics, Institute of Agricultural Sciences, Banaras Hindu University (BHU), Varanasi, India, is a world-class department. Since 1945, Agricultural Economics was functioning as a unit within the College of Agriculture, focusing solely on undergraduate teaching. The department started postgraduate teaching and research in Agricultural Economics in 1951. In 1955, it was elevated to a full-fledged Department of Agricultural Economics. On the recommendations of the Indian Council of Agricultural Research (ICAR), from July 1974, the department shifted its credit-based teaching courses for undergraduate and postgraduate classes to the Institute level. To improve research, and to introduce advanced credit courses – in line with other agricultural universities in India – the institute and the Department of Agricultural Economics started such courses in 1984.

Since then, the department has been actively engaged in undergraduate and postgraduate (M.Sc. and Ph.D.) teaching, supervising research work and managing self-financed research projects. In 2007, the department launched a new self-financed programme, namely the Master of Agribusiness Management.

DEPARTMENT OF AGRICULTURAL ECONOMICS, RAJIV GANDHI UNIVERSITY, A.P.

The Department of Agricultural Economics was established in 2019. As one of the foremost and pioneering departments of the Faculty of Agricultural Sciences, it has played an instrumental role in advancing the university's mission by fostering academic excellence in the field of agricultural economics, in accordance with the guidelines of the university and the Indian Council of Agricultural Research (ICAR).

The department has diligently contributed to the B.Sc. (Hons.) Agriculture degree program, offering students a comprehensive foundation in this vital discipline. Additionally, a student-ready program (SRP) further enhances the learning experience, ensuring that graduates are equipped to tackle the multifaceted challenges of the agricultural sector.

Since its inception in 2020, the department has expanded its offerings by introducing the M.Sc. (Ag.) in Agricultural Economics degree program. This advanced degree program provides a more in-depth and specialized study and research of agricultural economics, catering to the growing demands of the field.

The department started offering a Ph.D. in Agricultural Economics from the academic year 2024-25. This advanced degree program offers a more in-depth and specialized study of agricultural economics and research, addressing the growing demands of the field with a focus on academic excellence, a comprehensive curriculum and a dedication to preparing students for the ever-evolving agricultural landscape, this department is a significant contributor to the university's mission and the agricultural sector in the region.

ABOUT THE PROGRAMME

The One-Week Faculty Development Programme (FDP) on Research Methodology and Data Analytics is designed to equip faculty members, researchers and academicians with the essential knowledge and practical skills needed to conduct high-quality research and effectively analyze data. This hands-on-Training programme focuses on bridging the gap between theoretical understanding and real-world application, enabling participants to enhance their research capabilities and improve the quality of their academic outputs.

The programme comprises 36 contact hours of intensive learning and practical engagement, in accordance with the UGC Malaviya Mission Teacher Training Centre (MMTTC) guidelines.

OBJECTIVES

The key objectives of the programme are:

- To provide participants with a comprehensive understanding of research methodologies.
- To introduce the latest tools and software used for data collection, analysis and interpretation.
- To develop practical skills in statistical analysis, data visualization and interpretation of results.
- To promote ethical research practices and ensure academic integrity.
- To encourage interdisciplinary research and collaboration across fields.
- To Equip faculty with the knowledge and skills to effectively utilize AI in their research processes.

PROGRAMME HIGHLIGHTS

- **Expert Sessions:** Renowned academicians and industry experts will deliver sessions covering fundamental and advanced research methods.
- **Hands-on- Training:** Participants will engage in practical exercises using statistical software such to analyze real datasets.
- **Workshops:** Special workshops on data visualization, hypothesis testing and research paper writing.
- **Interactive Discussions:** Opportunities to discuss research ideas, clarify doubts and receive personalized feedback from experts.
- **Certificate of Participation:** Participants will receive an e-certificate upon successful completion of the programme.

This FDP is ideal for:

- Faculty members and lecturers from universities, colleges, Schools and research institutes.
- Doctoral scholars and postgraduate students aiming to strengthen their research skills.
- Early-career researchers interested in applying data analytics to their work.
- Professionals involved in research and development (R&D) or data-driven decision-making.

EXPECTED OUTCOMES

By the end of the programme, participants will be able to:

- Frame effective research questions and design sound research studies.
- Apply appropriate data collection and sampling techniques.
- Conduct statistical and analytical procedures using specialized software.
- Interpret and present research findings in academic papers, reports and presentations.
- Integrate ethical considerations into every stage of the research process.
- Effective integration of AI in Teaching, Learning and Research.

BENEFITS

- **Career Advancement:** Programme participation counts toward the Career Advancement Scheme (CAS).
- **Collaborative Network:** Offers the opportunity to be part of a dynamic community of educators across India.
- **Expert Guidance:** Gain insights from renowned education experts with extensive experience.

Topics to be Covered in FDP

- Introduction to Research Methodology
- Identifying the Research Problem
- Framework for Literature Review: Systematic Review, Bibliometric & Meta Analysis
- Data Collection Tools and Methods
- Questionnaire Designing using Software
- Sampling Techniques & Hypothesis formulation
- Measurement Scales, Validity & Reliability
- Data Visualization & Storytelling using Power BI
- Data Analysis using Jamovi Software
- Multivariate Analysis: Factor Analysis, Cluster Analysis
- Use of AI Tools in Research
- Use of R/Python/Machine Language for Data Analytics
- Research Ethics & Plagiarism in the Age of AI
- Writing Research Papers, Research Proposals, Publication Strategies
- Identifying Funding agencies & Opportunities, Budget Planning & Submission Process

REGISTRATION & PAYMENT DETAILS

Details of Registration Fees:

1. For Indian Regular/Permanent Faculty: **INR 1,000** (Non-Refundable)
2. For Indian Contractual/Guest Faculty: **INR 850** (Non-Refundable)
3. For Indian Research Scholars: **INR 650** (Non-Refundable)
4. For Foreigner: **USD 20** (Non-Refundable)

For registration please click on the given link: <https://forms.gle/ZXHsuWtyqQDU36ep7>

PAYMENT DETAILS

BANK NAME: **JAMMU & KASHMIR**
Account no.: **0773040520000003**
Branch: **SNM Hospital**
IFSC: **JAKAOSNMLEH**
Account Title: **Symposium & Conference**

Scan QR Code
Registration



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