

# SHORT-TERM TRAINING PROGRAM

on

## From Data to Insights: Statistical Analysis with Free and AI-Driven Tools

25 - 30 May, 2026

(Offline Mode)

ORGANISED BY



**Inter University Centre for Teacher Education**  
BHU, Varanasi, Uttar Pradesh

**Last Date of Registration: 15 May, 2026**  
**Registration Link: <https://iucte.ac.in/program/>**  
**There is no Registration fee for attending the program**

**Address: Inter University Centre for Teacher Education (IUCTE), BHU, IUCTE  
Campus, Sundar Bagiya, Nariya-B.L.W Road, Varanasi - 221005**

## About IUCTE

The Inter University Centre for Teacher Education (IUCTE), BHU, Varanasi is an Autonomous Institution established by the University Grants Commission (UGC) under Section 12 (ccc). Its core mission is to promote excellence in Teacher Education through interventions in Curriculum, Pedagogy, Assessment, Governance, Policy, Planning, and Research. IUCTE envisions cultivating quality educators who contribute to a sustainable ecosystem, thereby reshaping the education system in India. It plays a pivotal role in enhancing the quality of Teaching and Research, promoting Technology Integration in Education, and providing Advisory Services. Furthermore, IUCTE fosters National and Global Collaborations and influences Policy Reforms to advance the field of education in general, and Teacher Education in particular.

## About the Program

The pursuit of high-quality research today requires not only intellectual curiosity but also strong methodological rigor and analytical competence. In almost every discipline, from education and social sciences to management and health sciences, the ability to design studies, analyze data, and present results convincingly is what determines the credibility and impact of research. The effective use of statistical and analytical tools is, therefore, no longer optional but a fundamental requirement for researchers and faculty members.

At the same time, the research ecosystem is undergoing a rapid transformation with the emergence of Artificial Intelligence (AI). AI-enabled features are beginning to reshape traditional statistical and research analysis workflows. From automated data cleaning and instant descriptive summaries to AI-assisted coding and advanced bibliometric visualizations, these innovations are opening new pathways for researchers to analyze data faster, more accurately, and with greater interpretive clarity. Against this backdrop, there is a growing need for training programmes that not only strengthen foundational statistical skills but also equip the faculty with the competencies to adopt AI-supported tools.

It is with this vision that the Short-Term Training Programme (STTP) on “From Data to Insights: Statistical Analysis with Free and AI-Driven Tools” has been conceptualized. The programme offers a carefully structured, six-day training experience that blends theory, practical demonstrations, and hands-on sessions. It aims to provide participants with equal exposure to six widely used research tools, ensuring a balanced skill set in both quantitative and qualitative domains.

- Excel 365 with AI Copilot is included because of its accessibility and versatility. Many researchers are already familiar with Excel, but this programme highlights its advanced potential for hypothesis testing, dashboards, and AI-powered features such as automated insights and predictive analysis.

- R has been chosen for its power, flexibility, and global recognition as a leading software for data science and statistical modeling. With AI support, even beginners can learn to generate and interpret R scripts using natural language prompts.
- Jamovi, an open-source, GUI-based software, allows non-coders to perform advanced statistical tests with ease. It generates APA-style outputs and integrates seamlessly with teaching and publishing requirements.
- VOSviewer and Scimago Graphica are included to enable participants to conduct bibliometric mapping and advanced visualizations. These tools are particularly useful for analyzing large sets of academic publications, citations, and research networks, helping scholars to identify research trends and gaps.
- Taguette represents the qualitative dimension of research. It allows researchers to code textual data, identify themes, and conduct rigorous qualitative analysis.

This multi-tool approach ensures that participants are not limited to a single method or software, but become versatile researchers capable of selecting the most appropriate tools for their research questions and data types. By the end of the six days, participants will not only have enhanced their conceptual understanding of statistics but also developed practical skills in six different software tools, while experiencing how AI can be integrated at every stage of research. This holistic training is intended to empower participants to carry out research that is statistically sound, technologically current, and globally competitive.

### **Why Should You Attend?**

- To strengthen your statistical foundations and apply them effectively in quality research.
- To gain hands-on training with widely used tools.
- To explore AI-supported features such as Excel Copilot, AI-assisted R coding, and automated report generation.
- To enhance your ability to analyze, visualize, and interpret complex datasets with confidence.
- To network with fellow researchers and faculty, fostering opportunities for collaboration and peer learning.
- To experience a practice-oriented pedagogy during lab-based activities.

### **Objectives of the Program**

- To strengthen participants' conceptual understanding of descriptive and inferential statistics.
- To provide hands-on exposure to Excel 365, R, Jamovi, VOSviewer, Scimago Graphica, and Taguette.
- To demonstrate the role of AI in statistical, bibliometric, and qualitative research analysis.
- To enable participants to manage, analyze, visualize, and interpret diverse datasets.

### Key Themes of the Program

- Statistical Foundations
- Excel 365 with AI Copilot
- R for Statistical Computing
- Jamovi
- Visualization tools
- Qualitative Analysis

### Target Audience

Faculty from colleges and universities offering undergraduate and postgraduate programs.

### Promotion Opportunities under CAS

Participants will be awarded a certificate after successful completion, which will be considered for promotion under the Career Advancement Scheme (CAS).

### Important Dates

<b>Registration Start Date</b>	<b>16/04/2026</b>
<b>Registration End Date</b>	<b>15/05/2026</b>

### Note:

- **No registration fee** is required to attend the programme.
- The programme is open to a **limited number of participants (50 seats only)**.
- **Selection will be based on a first-come, first-served basis**, subject to the submission of a brief write-up (to be filled at the time of registration).
- Participants will be provided with shared accommodation and meals during the program.
- No TA/DA will be provided.
- Participants are required to bring their laptops during the program.

Registration Link	Venue
<a href="https://iucte.ac.in/program/">https://iucte.ac.in/program/</a>	Inter University Centre for Teacher Education Sundar Bagiya, Nariya-B.L.W Road, Varanasi - 221005

## Chief Patron

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Varanasi

## Program Convenor and Co-Convenor

**Dr. Deepty Gupta**

Assistant Professor  
IUCTE, BHU  
Varanasi

**Sh. Chakradhar Rana**

Assistant Librarian  
IUCTE, BHU  
Varanasi

### Contact Us

- Dr. Deepty Gupta, Assistant Professor, IUCTE; Email: [deepty.gupta@iucte.ac.in](mailto:deepty.gupta@iucte.ac.in), Mob.: 9868744121
- Sh. Chakradhar Rana, Assistant Librarian, Email: [chakradharrana@iucte.ac.in](mailto:chakradharrana@iucte.ac.in), Mob.: 7987824606

**Technical Assistance:** Sh. Vikas Janu, Webmaster, IUCTE, Mobile No.: 9785575456

