

Brief Report

NATIONAL SEMINAR

On

“MATHEMATICAL AND STATISTICAL COMPUTING”

Organized by

Department of Mathematics & Statistics,

Faculty of Science

Integral University, Lucknow

The National Seminar on "**Mathematical and Statistical Computing**" was held on May 04, 2024, at the Seminar Hall (Academic Block – D). The seminar aimed to bring together leading experts, researchers, and practitioners to discuss the latest advancements and applications in mathematical and statistical computing. The seminar featured distinguished experts and dignitaries who shared their insights on various aspects of the field.

Prof. Mobin Ahmad, Head of the Department of Mathematics & Statistics at Integral University, Lucknow, delivered the welcome address, highlighting the importance of mathematical and statistical computing in solving complex problems across various fields and the role of such seminars in fostering innovation and collaboration.

Prof. Mobin Ahmad extended a warm greeting to **Prof. Aqil Ahmad**, the Advisor to the Chancellor of Integral University, **Prof. Abdul Rahman Khan**, the Controller of Examinations and Dean of the Faculty of Science, **Prof. Aqeel Ahmad**, the Director of Human Resources Development at Integral University, **Prof. M. A. Khalid**, Dean Student's Welfare as well as the speakers, dignitaries, visitors, and audience of the event. He inspires the pupils and counsels them to acquire knowledge under the guidance of the expertise lecturers. The resource persons for the event were **Prof. Rajeev Pandey**, Department of Statistics University of Lucknow, and **Prof. Subir Das** Department of Mathematical Sciences, IIT (BHU).

In his address, **Professor Aqil Ahmad** emphasized the practical applications of these integrated approaches in fields such as physics, engineering, and finance, demonstrating significant improvements in predictive modeling and data analysis.

In his address, **Prof. Abdul Rahman Khan** delivered a compelling address on the importance of integrating mathematical and statistical computing into scientific research and education. He emphasized the critical role that advanced computational techniques play in driving innovation across various scientific disciplines.

In the inaugural session, **Prof. Rajeev Pandey**, Department of Statistics, University of Lucknow delivered an inspiring address. **Prof. Pandey** emphasized the transformative power of advanced statistical methods in extracting actionable insights from large and complex datasets. His insightful and forward-thinking address set an engaging and motivational tone for the seminar, inspiring participants to explore the vast potential of statistical computing in their own research and professional endeavors.

Dr. Mohammad Aamir Qayyoom, Assistant Professor Department of Mathematics & Statistics delivered the vote of thanks at the conclusion of the inaugural session. Dr. Aamir expressed heartfelt gratitude to all the

speakers, participants, and organizers for their invaluable contributions to the success of the event. He emphasized the importance of such gatherings in advancing knowledge and fostering collaboration in the field of mathematical and statistical computing.

Session 1:

Prof. Rajeev Pandey, Department of Statistics, University of Lucknow, Lucknow delivered an engaging presentation on " Statistical Computing." Prof. Pandey discussed the critical importance of statistical methods in extracting meaningful insights from large datasets. He showcased several case studies where advanced statistical computing techniques had led to significant breakthroughs in fields such as healthcare, finance, and environmental science.

Session 2:

The session began with a keynote speech by Prof. Subir Das, Department of Mathematical Sciences at IIT (BHU), who provided a comprehensive overview of recent advancements in computational mathematics . Dr. Das highlighted the development of new algorithms and their applications in solving complex real-world problems, emphasizing the transformative impact of these innovations on various scientific and engineering fields.

Both presentations provided the audience with a valuable learning experience. Following their lectures, they initiated a question and answer session, during which students expressed their uncertainties and engaged in conversations with them.

The seminar wrapped up at approximately 2:30 p.m. with over 120 students in attendance. The success of the event was credited to the exceptional work of the organizing team. The dedication, commitment, and meticulous planning demonstrated by **Dr. Najmuddin Ahmad** (Co-convener), **Dr. Quazzafi Rabbani** (Co-convener), **Dr. Malik Rashid Jamal** (Coordinator), **Dr. Mohammad Aamir Qayyoom** (Coordinator), members of advisory committee and organizing committee was instrumental in making this seminar a truly remarkable experience. The diverse range of speakers and their insightful presentations left a lasting impact on all attendees.

Glimpses of the Event





