Report on one day Workshop on "Statistics and Data Analysis with Excel"

Jointly Organised by

Department of Mathematics
&
Centre for Professional Development,

Introduction

The Department of Mathematics and Centre for Professional Development, NIILM University, organized a workshop on "Statistics and Data Analysis with Excel" on January 18, 2025. The workshop aimed to equip participants with essential statistical concepts and practical data analysis techniques using Microsoft Excel. The event was coordinated by Ms. Rekha Rani, Research Scholar, and brought together students, researchers, and faculty members interested in statistical analysis.

Proceedings of the Workshop

Welcome Address (11:00 AM - 11:15 AM)

The workshop commenced with a welcome address by **Prof. (Dr.) Rekha Gupta**, Dean, School of Commerce and Management, NIILM University. She emphasized the importance of statistics in various fields and the necessity of mastering Excel for efficient data analysis. She also highlighted the objectives of the workshop and encouraged active participation from attendees.

Keynote Lecture (11:15 AM - 02:50 PM)

Dr. Vijay Kumar Gahlawat

Associate Professor & Associate Dean (Student Welfare)
Department of Interdisciplinary Sciences (IDS), National Institute of Food Technology Entrepreneurship & Management, Kundli (NIFTEM-K)

The highlight of the workshop was a lecture delivered by **Dr. Vijay Kumar Gahlawat**, Associate Professor and Associate Dean (Student Welfare), Department of Interdisciplinary

Sciences (IDS), National Institute of Food Technology Entrepreneurship and Management, Kundli (NIFTEM-K).

Dr. Gahlawat provided valuable insights into the application of statistical techniques using Excel. The key topics covered during his session included:

- Introduction to statistical tools in Excel
- Descriptive statistics: Mean, Median, Mode, Standard Deviation
- Data visualization: Charts and Graphs
- Regression analysis and correlation
- Hypothesis testing
- Practical hands-on exercises for participants

His interactive approach and real-world examples helped participants grasp the concepts effectively and understand how Excel can be leveraged for data-driven decision-making.

Vote of Thanks (02:50 PM - 03:00 PM)

The workshop concluded with a Vote of Thanks by **Dr. Richa Mor,** Dean, School of Sciences, NIILM University. She expressed gratitude to the esteemed speaker, the organizing team, and all the participants for making the workshop a success. She acknowledged the efforts of Ms. Rekha Rani in coordinating the event and emphasized the need for more such practical learning sessions in the future.

<u>Outcomes of the Workshop</u>

The workshop proved to be highly beneficial for participants. The key outcomes include:

- **Enhanced Understanding**: Participants gained in-depth knowledge of statistical concepts and their application using Excel.

- **Practical Skills:** Hands-on exercises enabled participants to perform data analysis and statistical computations effectively.

- **Improved Decision-Making**: Attendees learned how to analyze data for making informed decisions in their respective fields.

- **Better Visualization Techniques:** The session on data visualization helped participants create impactful charts and graphs.

- **Increased Interest in Data Analytics:** The workshop inspired attendees to further explore the field of data analytics and its applications.

Conclusion

The workshop on "Statistics and Data Analysis with Excel" was a highly informative and engaging session. It provided the participants with valuable knowledge and practical skills to analyze data effectively using Excel. The event was well-received, with active participation and positive feedback from attendees. The Department of Mathematics at NIILM University looks forward to organizing more such workshops to enhance the analytical and technical skills of students and researchers.

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