Program Schedule

Short Term Course on Data Analysis using Excel and 'R'

Organized by
Department of Economics,
SNDT Women's University, Mumbai
To be held on 24th May 2021 to 28th May 2021
(Everyday 3 pm to 6.30 pm)

On Zoom Platform

Report on 30-Hour Short Term Course on Data Analysis Using Excel and R

The Department of Economics at SNDT Women's University, Mumbai, conducted a 30-hour Short-Term Course on Data Analysis Using Excel and R from 24th May 2021 to 28th May 2021. Held daily from 3 pm to 6.30 pm on the Zoom platform, the course offered intensive training in statistical data analysis tools and techniques, led by Dr. J.K. Sachdeva, Professor of Quantitative Analysis and Decision Science and Editor-in-Chief of the Journal of Global Economy.

This course aimed to equip participants with practical skills in using Excel and R for data analysis, covering essential topics such as hypothesis testing, regression analysis, descriptive statistics, and factor analysis. Over 30 hours, the course provided in-depth learning, with participants engaging directly in hands-on sessions guided by the resource person.

Day-Wise Summary:

- Day 1 (24th May 2021):
The course commenced with an introduction to key concepts, focusing on information and knowledge distinctions, the difference between literary/artistic work and research work, and the inductive and deductive reasoning methods. Dr. Sachdeva also covered the ethical aspects of conducting research, laying a strong foundation for data analysis.

- Day 2 (25th May 2021):

Participants were introduced to R programming, learning to install R, work with the basics, install packages, and load libraries. This session provided the technical groundwork for using R in subsequent sessions.

- Day 3 (26th May 2021):

The focus was on framing hypotheses, understanding normal distribution, and conducting hypothesis testing using both Excel and R. Dr. Sachdeva guided participants through testing hypotheses about means, demonstrating how to apply statistical tests in real-world research.

- Day 4 (27th May 2021):

Participants learned to calculate descriptive statistics and analyze causal relationships. They also performed regression analysis using Excel and R. The hands-on approach gave participants an opportunity to apply these statistical techniques on live datasets.

- Day 5 (28th May 2021):

The final session centered on factor analysis using R. Participants were also encouraged to bring forward their research projects and discuss any data analysis challenges they were facing. The session was interactive, allowing students to apply the concepts they learned throughout the week.

Conclusion:

The 30-hour short-term course was a resounding success, providing participants with both theoretical knowledge and practical skills in data analysis using Excel and R. Dr. J.K. Sachdeva's expert guidance and methodical instruction made complex statistical techniques accessible to all attendees. The Department of Economics at SNDT Women's University demonstrated their commitment to advancing research skills, offering this course free of charge, which was highly appreciated by the participants. The course concluded with a Q&A session, where students were able to clarify their doubts and discuss their research projects in detail.

This rigorous and interactive learning experience will undoubtedly enhance the analytical capabilities of the students and scholars who participated.

Link for Registration: https://forms.gle/sgks75cGNSvvheZz5

Registration fees will not be charged from the participants. Link for the workshop will be shared on Email /WhatsApp group.