NATIONAL INSTITUTE OF TECHNOLOGY **DURGAPUR**



WORKSHOP ON FUNDAMENTALS OF RESEARCH METHODOLOGY USING APPLICATION SOFTWARE (ONLINE MODE)



Date 2024-28th June 2024



Programme Coordinators

Dr. Amlan Ghosh & Prof. Gautam Bandyopadhyay



Venue

NIT DURGAPUR

Mahatma Gandhi Avenue, National Institute of Technology Durgapur, Durgapur, West Bengal

India - 713209





Organized by:

Department of Management Studies NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

FOCUS AREAS:

Descriptive

1. Basics of Statistics and its Application

Data type and measure Descriptive Statistics

Data visualization

Diagnostic

2. Probability

Concepts of Prior Probability & Posterior Probability Concept of Random Variable

Concepts of Discrete & Continuous Probability Distribution

3. Sampling

Probabilistic Sampling & Deterministic Sampling SRSWR & SRSWOR

Stratified Random Sampling

4. Inferences

Z Test, χ 2 Test, t Test, F Test and application.

Predictive

5. ANOVA

One -Way ANOVA

Two- Way ANOVA

One-Way ANCOVA

6. Regression

Concept of covariance and correlation

Concept of Simple Correlation, Multiple Correlation & Partial correlation

Simple regression & multiple regression

Logistic Regression

- 7. Mediation and Moderation
- 8. Principle Component Analysis and Factor Analysis
- 9. Cluster Analysis
- 10. Time Series Analysis

RESEARCH TOOLS TO BE USED:

statistical software

SPSS/JAMOVI/EViews/ R Studio

Last Date of Registration: 17/06/2024

ABOUT NIT DURGAPUR

National Institute of Technology (NIT) Durgapur, also known as NIT Durgapur, is a premier engineering institute located in Durgapur, West Bengal, India. Founded in 1960, NIT Durgapur has a rich history of providing quality education and research opportunities in engineering and Management. The institute offers undergraduate, postgraduate, and doctoral programs in various fields of Engineering and Management. NIT Durgapur is known for its strong faculty, state-of-the-art facilities, and research-oriented approach to education.

WHAT YOU EXPECT

Participants are required to devote full time during the workshop and actively participate in the discussions. We would also spend meaningful time on hands-on experiences with different statistical software. Participants will receive soft copies of study materials and a programme certificate at the end of the successful completion of the workshop.

FOR WHOM:

Young and budding researchers who are planning to start the research work, have already started their work but yet to get the research topic/s or just began their research journey and also for the young faculty members to refresh their minds for their future research.

PROGRAMME DURATION:

Programme Commencement: 24th June 2024 Programme Conclusion: 28th June 2024

PROGRAMME FEES:

Rs 1000/- for Research Scholars, Rs 1500/- for Faculties & Practitioners.

HOW TO APPLY:

Participants are required to fill the registration form using the link below:

https://forms.gle/g1ujD2v4FWUVJg5EA

Mode of Registration:

Programme fees are required to be credited directly to "CEP NIT DURGAPUR" bearing Account. No. 37850318679, STATE BANK OF INDIA, NIT CAMPUS, IFSC Code: SBIN0002108.

ABOUT DEPARTMENT OF MANAGEMENT STUDIES

The Department of Management Studies (DoMS) at the National Institute of Technology (NIT) was established in the year 2011 and offers undergraduate, postgraduate and doctoral programs in Management. The DoMS currently offers specialization in the functional areas of Marketing, Finance, Systems & Operations, Human Resource Management & Organizational Behavior, and International Business & Econometrics. The department has a strong focus on research and encourages students to engage in research activities.

Resource Persons



Prof. Tathagata Bandyopadhyay Ex-Professor, IIM Ahmedabad & Director, Dhirubhai Ambani Institute of Information and Communication Technology Ahmedabad, Gujrat



Dr. Surupa ChakrabortyAssociate Professor
Department: Statistics
St Xavier's College (Autonomous),
Kolkata



Prof. Gautam Bandyopadhyay
Professor
Department of Management Studies
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Dr. Amlan GhoshAssociate Professor
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Dr. Anupam DeyAssociate Professor
Department of Management Studies
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