

DATA ANALYSIS WORKSHOP

Hands On Workshop ON Data Analysis
and Interpretation through SPSS

16 August 2026 to 20 August 2026

ORGANIZED BY



**DEPARTMENT OF ARCHITECTURE & PLANNING
MANIT, BHOPAL**

IN ASSOCIATION WITH

**INSTITUTE OF TOWN PLANNERS, INDIA
MP CHAPTER**

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About MANIT Bhopal



Maulana Azad National Institute of Technology (MANIT), Bhopal was established in 1960 as Maulana Azad College of Technology (MACT) and was accorded the status of National Institute of Technology in 2002. Recognized as an Institute of National Importance, MANIT is one of India's leading technical institutions, offering undergraduate, postgraduate, and doctoral programs in engineering, architecture, planning, management, science, and humanities. Situated on a picturesque 650-acre campus in Bhopal, the institute provides excellent academic and research infrastructure, modern laboratories, and residential facilities. MANIT is committed to excellence in education, innovation, and professionals research, who producing skilled



About ITPI MP Chapter

The Institute of Town Planners, India (ITPI) is the premier professional body of planners in the country, established in 1951 to promote the profession of town and country planning. ITPI advances planning education, research, professional practice, and policy advocacy for sustainable urban and regional development. The Madhya Pradesh Regional Chapter of ITPI actively promotes professional development through workshops, seminars, training programs, and collaborative initiatives involving academia, government agencies, and practicing professionals. The chapter serves as a platform for knowledge exchange and capacity building in areas such as urban planning, environmental sustainability, climate resilience, and infrastructure development.

About the Department

The Department of Architecture and Planning, MANIT Bhopal, is one of the premier centres for education and research in the fields of architecture, planning, and the built environment. With over 55 years of academic excellence, the department offers undergraduate programmes in Bachelor of Architecture (B.Arch.) and Bachelor of Planning (B.Plan.), along with postgraduate programmes in Urban Planning and Real Estate, and doctoral research opportunities. The department actively promotes interdisciplinary research and professional engagement in areas such as sustainable urban development, climate-responsive design, environmental planning, GIS and remote sensing, transportation

Workshop Overview

The ability to transform raw data into meaningful insights is an essential skill for researchers, academicians, students, and professionals across various disciplines. This intensive, hands-on workshop is designed to develop practical expertise in data analysis by integrating statistical concepts with real-world research applications. Using IBM SPSS Statistics, participants will gain comprehensive, step-by-step experience in the complete data analysis process, including data entry, data preparation, statistical analysis, and the interpretation of advanced multivariate techniques. The workshop emphasizes practical learning, enabling participants to confidently analyze data, interpret results, and generate reliable evidence to support research and informed decision-making.

Course Objectives

The Workshop on Data Analysis and Interpretation through SPSS is designed to help participants develop practical skills in analyzing and interpreting research data with confidence using IBM SPSS Statistics. Through a combination of interactive sessions and hands-on exercises, participants will gain a solid understanding of quantitative data analysis and essential statistical concepts. They will learn how to organize, clean, and prepare datasets, perform descriptive and inferential statistical analyses, choose appropriate statistical tests for different research problems, and interpret SPSS outputs accurately. The workshop will also introduce advanced multivariate analysis techniques, enabling participants to apply these methods in a wide

Topic Covered

- **Introduction to IBM SPSS Statistics**
- **Data Entry, Management, and Preparation**
- **Descriptive Statistics and Data Visualization**
- **Reliability and Validity Analysis**
- **Correlation Analysis**
- **Hypothesis Testing**
- **t-Tests and Analysis of Variance (ANOVA)**
- **Chi-Square Test**
- **Regression Analysis**
- **Factor Analysis**
- **Cluster Analysis**
- **Interpretation and Reporting of SPSS Output**
- **Hands-on Analysis Using Real Research Datasets**

Course Outcomes

By the end of the Workshop on Data Analysis and Interpretation through SPSS, participants will have the confidence and practical skills to use IBM SPSS Statistics for analyzing and interpreting research data effectively. They will be able to prepare and manage datasets, choose appropriate statistical methods for different research questions, and perform a range of statistical analyses with ease. Participants will also learn how to interpret SPSS outputs accurately and communicate their findings clearly, helping them produce high-quality research. The skills gained during the workshop can be applied to dissertations, theses, research publications, consultancy projects, and other professional assignments that require reliable, data-driven analysis.

Who Should Attend?

This workshop is ideal for research scholars, postgraduate and undergraduate students, faculty members, academicians, research professionals, industry practitioners, consultants, and anyone interested in developing practical skills in data analysis using SPSS. It is especially beneficial for individuals involved in dissertations, theses, research projects, publications, surveys, and evidence-based decision-making across disciplines such as engineering, management, social sciences, education, health sciences, architecture, planning, and related fields.

HOW TO APPLY

Interested participants can register by completing the online registration form through the QR code or link provided in the workshop brochure. Registrations will be accepted on a first-come, first-served basis due to limited seats. Participants are advised to register early to secure their place in the workshop.

Link for Registration:

<https://lnkd.in/dGpa2mSf>



Registration Fees: 1500RS

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