

# 6 Days Residential OFFLINE Workshop on **MULTILEVEL MODELING USING RSTUDIO**



**7 July - 12 July, 2025**



Organized By:

**Department of Business Administration,  
National Institute of Technology, Kurukshetra**



## **ABOUT NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA**

NIT Kurukshetra, formerly known as Regional Engineering College, Kurukshetra was founded in 1963. It was conferred upon the NIT status, with Deemed University on June 26, 2002. The Institute was granted the status of Institution of National Importance in 2007. The Institute offers several courses, in various disciplines of B. Tech, M. Tech, M.Sc., MBA, MCA & Ph.D. with an annual intake of more than 1500 students and has excellent facilities for advanced research in the emerging areas of Engineering, Science, Technology, and Management. The institute has well qualified and dedicated faculty along with supporting staff, laboratories and other infrastructure.

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# **ABOUT DEPARTMENT OF BUSINESS ADMINISTRATION**

The Department of Business Administration, NIT Kurukshetra is accredited by the NBA which is the National Board of Accreditation. Department has been actively offering management education, research and manpower training programs for producing globally competent management professionals and research scholars since its establishment in 2006. In short span of existence, the department has achieved the recognition of being a leading Centre of management education in the region.

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## **ABOUT THE WORKSHOP**

The Department is pleased to announce a comprehensive Six-Day Offline Residential Workshop on Multilevel Modeling using R. The goal is to Equip participants with the foundational R skills, conceptual understanding, and practical techniques to conduct, interpret, and report basic and advanced multilevel models, including those with Likert scales and considerations for mediation. This workshop is ideal for researchers, academicians, and professionals seeking to enhance their statistical modeling capabilities using R.

## RESOURCE PERSON



### **Dr. Neeraj Kaushik**

Dr. Neeraj Kaushik is the Associate Professor and Head of the Department of Business Administration at NIT Kurukshetra. He holds a Bachelor's in Textile Technology and advanced degrees in Management Sciences, Computer Applications, Mass Communication, Intellectual Property Law, and Social Work. As an expert in services marketing and research methodology, Dr. Kaushik has conducted 500+ workshops on SPSS and management games. With 65 research papers published in renowned journals, he also serves on several editorial boards. Previously, he was a visiting faculty at IIM Rohtak and guest faculty at IIM Lucknow.



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# WORKSHOP SCHEDULE

## Day 1 R Fundamentals & Tidy Data Principles

Session 1: Introduction to R, RStudio, and the Tidyverse Philosophy

Session 2: Data Frames and Importing Data with readr

Session 3: Data Manipulation with dplyr

## Day 2 Data Visualization & Basic Regression

Session 1: Data Visualization with ggplot2

Session 2: Introduction to Linear Regression and easystats::report

Session 3: Multiple Linear Regression and easystats::performance

## Day 3 Multilevel Concepts & Data Preparation

Session 1: Why Multilevel Modeling?

Session 2: Data Preparation for Multilevel Models: Aggregation & Centering

Session 3: Variance Components and Intraclass Correlation (ICC)

## Day 4 Random Intercept & Random Slope Models

Session 1: Random Intercept Models

Session 2: Random Slope Models

Session 3: Model Comparison and Selection with easystats::performance

## Day 5 Advanced Modeling & Likert Scales

Session 1: Visualizing Multilevel Model Results with sjPlot

Session 2: Working with Likert Scale Data in Multilevel Models

Session 3: Longitudinal Data and Multilevel Models

## Day 6 Advanced Applications & Reporting

Session 1: Introduction to Mediation in Multilevel Contexts

Session 2: Comprehensive Reporting & Further Resources

# ADDITIONAL INFORMATION

**No. of Seats:** Limited to 30 participants only

**Venue:** Department of Business Administration,  
National Institute of Technology, Kurukshetra  
(Offline mode only)

**Accommodation:** Accommodation (including breakfast and dinner) may be arranged for the interested participants in hostels on a twin-sharing PAYMENT basis.

**Registration Fee\*:** Rs. 4000 for Research Scholars  
Rs. 5000 for Faculty Members

\*The registration fee will cover a workshop kit, refreshments, lunch during workshop days, and a certificate of participation.

**Registration Link:** <https://forms.gle/zB2FR4wxoIVjUWQY6>

**Contact:** Dr. Neeraj Kaushik (9996259725)

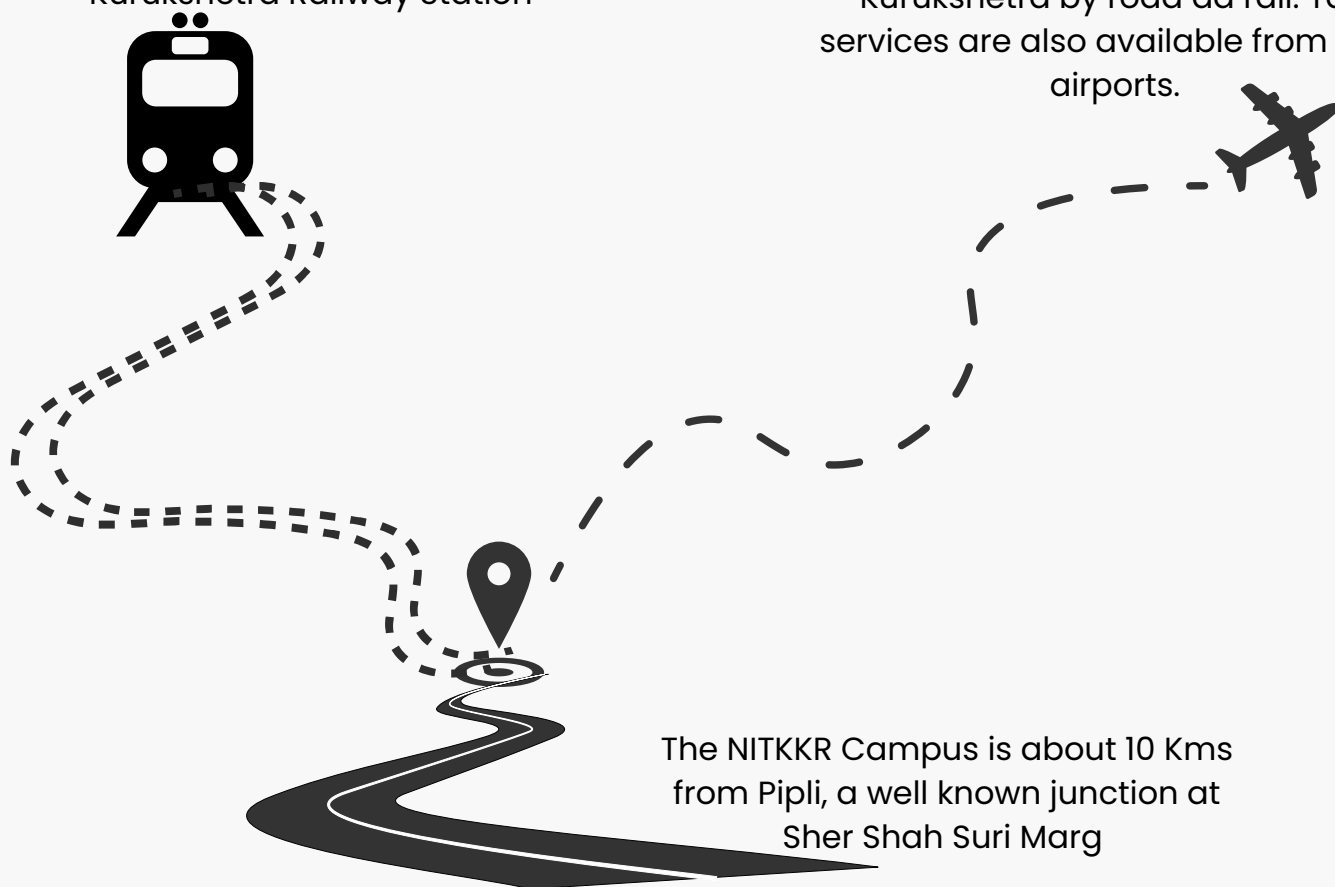


# HOW TO REACH NIT KURUKSHETRA

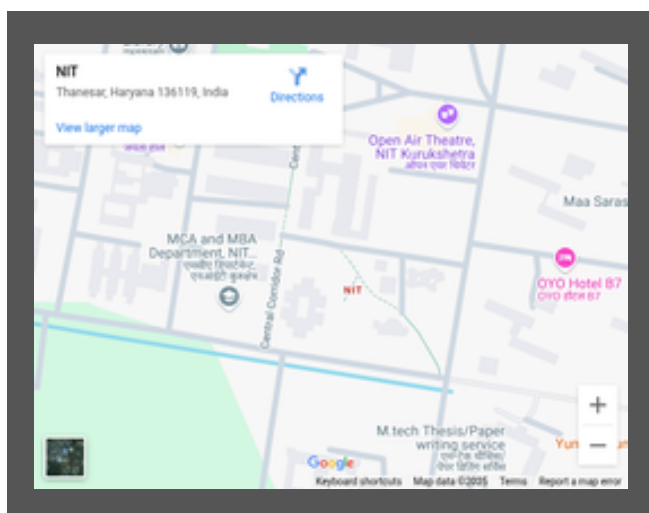
Kurukshetra is a railway junction on Delhi-Karnal-Ambala section of the northern Railway. It is about 160 Kms from Delhi and About 5 Km from Kurukshetra Railway Station



The nearest airports are at Delhi and Chandigarh, which are connected to Kurukshetra by road and rail. Taxi services are also available from both airports.



The NITKKR Campus is about 10 Kms from Pipli, a well known junction at Sher Shah Suri Marg



**SCAN TO LOCATE**

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**PATRON:**

Prof. B. V. Ramana Reddy  
Director NIT KKR

**ADVISOR:**

Dr. Neeraj Kaushik  
Associate Professor & Head

**CONVENER:**

Dr. Mohammad Firoz  
Assistant Professor

**CO-ORDINATORS:**

Dr. Priyanka Sihag  
Assistant Professor  
Dr. Mohit Kumar Ojha  
Assistant Professor

**STUDENT CO-ORDINATORS:**

Surbhi Bhardwaj  
(9728607955)  
Sudhanshu Sharma  
(7018850166)