

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, MBA, MCA & Ph.D. with an annual intake of 1500 students and has excellent facilities for advanced research in the emerging areas of Engineering, Science, and Technology. The institute has well qualified and dedicated faculty along with supporting staff, laboratories and other infrastructure.

About the Department

The Department of Business Administration, NIT Kurukshetra has been actively pursuing management education, research and manpower training programs for producing globally competent management professionals 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.

About the Workshop

PLS-SEM has become a norm for research these days. Primarily, it can check the measurement and structural model (including very complex models of mediation, moderation, mediated moderations etc) among constructs. It has several advantages over the CB-SEM like its ability to handle Reflective and Formative constructs, the requirement of very small sample size etc. All such features are now available in Open-source software R-Studio. Using different R-packages such as dplyr, ggstatsplot, lavaan, psych, SEMinR, processR etc all concepts shall be discussed in Hands-on training basis.

ONE WEEK WORKSHOP ON

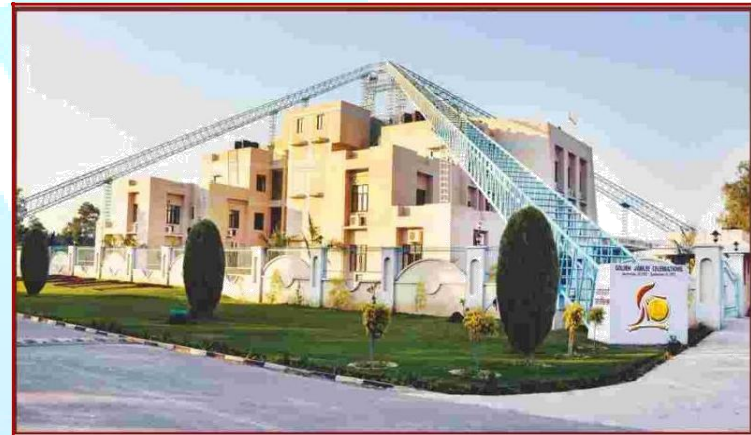
STRUCTURAL EQUATION MODELING USING R-STUDIO

December 26-30, 2022

Patron

Prof. B. V. R. Reddy
Director, NIT Kurukshetra

Advisor: Prof. Rajender Kumar, Professor
Convener: Dr. Neeraj Kaushik, Associate Professor & Head
Co-ordinator: Dr. Mohd Firoz, Assistant Professor



Organized By

Department of Business Administration
National Institute of Technology, Kurukshetra
Kurukshetra – 136119

WORKSHOP SCHEDULE

| | |
|-------|---|
| DAY 1 | Introduction to Research Process, Types of Research, Variables, ROL |
| | Introduction to R-Studio, Concept of Packages, Function, Variables |
| | Data Manipulation using R-package: dplyr |
| | Univariate Analysis using R-package: summarytools |
| DAY 2 | Theoretical vs Conceptual Framework, Role of theory in Research |
| | Hypothesis Testing: Concept & Cases |
| | Bivariate Analysis using R-Packages ggstatsplot |
| | Regression: Simple & Multiple |
| DAY 3 | Types of Construct, Orders of Construct |
| | Exploratory Factor Analysis |
| | Exploratory Factor Analysis using R-Packages: psych |
| | Working on R-package: lavaan |
| DAY 4 | Introduction to R-Packages: plspm, matrixpls, SEMinR |
| | Measurement Model |
| | Structural Model |
| | High order Constructs, Saving Construct Scores |
| DAY 5 | Higher Effects in SEM |
| | Higher Effects: Mediation, Moderation |
| | Working on processR- Various models in processR |
| | Moderated Mediation Models |

Workshop Fees : ₹ 5000* (For Faculty)
₹ 3500* (For Research Scholars)
*Includes lunch & tea snacks
(Payment will be Non-refundable)

OTHER RELEVANT INFORMATION:

No. of seats : Limited to 35 participants only

Venue : Department of Business Administration

Resource Persons : Dr Neeraj Kaushik + Eminent
Resource persons from Premier
Institutes

Mode of Payment : Online link for payment with the shared with
the selected participants

Accommodation : Accommodation (including breakfast
& dinner) may be arranged for the
interested participants on Twin
sharing PAYMENT basis in Hostels

Contact : **Dr Neeraj Kaushik**
Email: neeraj.kaushik@nitkkr.ac.in
Mobile: +91-9996259725

Dr Mohd Firoz
Mobile: +91-9910612165

Registration link: <https://forms.gle/1famekdKYdZ1S1mK8>