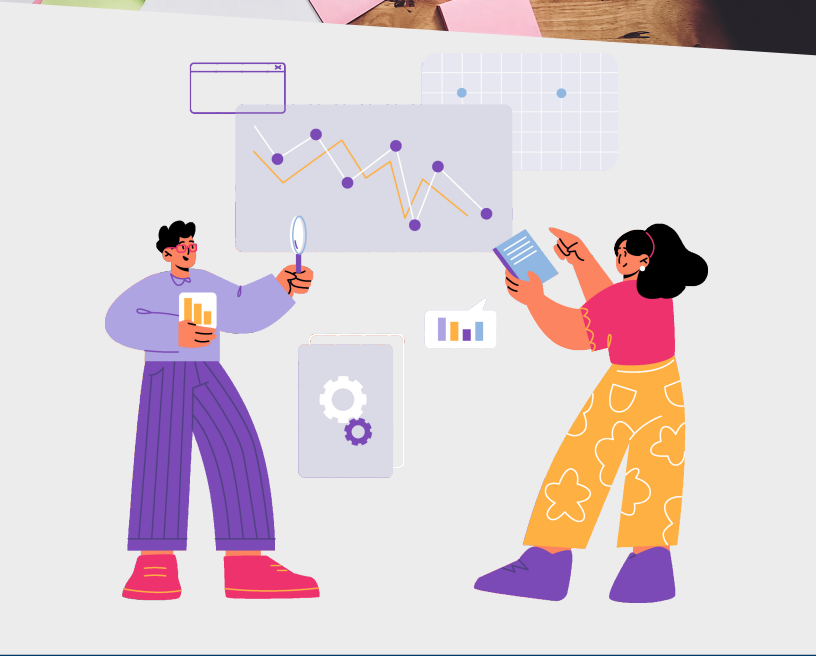




10<sup>th</sup> July-14<sup>th</sup> July 2023

One Week  
**Faculty  
Development  
Program**  
on  
**Statistical Analysis  
Using R Studio**



**Registration Link**

<https://forms.office.com/r/F8gcd9byg0>

**Contact Information**

**Dr. Gaurav Chopra**  
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+91-8445412288

*Organised by*

**School of Management  
IMS Unison University  
Dehradun**

# ABOUT IMS UNISON UNIVERSITY

IMS Unison University located in the valley of picturesque, beautiful mountains in Dehradun, the capital city of the State of Uttarakhand in India, offers an environment fostering learning and creativity. Established under the visionary leadership of the Unison group in the year 1996 as Institute of Management Studies, the growing excellence in management education led to the evolution of the Institute into a leading private university in the year 2013. IMS Unison University aims at raising the standards of education through holistic development of its students and contributing to the development of new knowledge and dissemination through excellence in research, teaching, and administration. With this vision, the university offers a range of multi-disciplinary courses at the undergraduate, postgraduate, and doctoral levels.



# ABOUT SCHOOL OF MANAGEMENT

The School of Management (SoM) is ranked 18 amongst the top 100 B-Schools of the country for its consistency in delivering excellence in quality management education. It has adequate infrastructure, expertise, and resources to excel in imparting management education. The School can boast of an excellent faculty team with rich expertise in the various functional areas of management. Equipped with an up-to-date library and excellent infrastructure, the school offers various Doctoral, Post Graduate, Undergraduate & Integrated Programs that are aligned with the industry requirements.

# ABOUT FDP

Data analytics is the process of examining large and complex datasets to extract useful insights and information. It involves various techniques such as statistical analysis, data mining, machine learning, and predictive modeling. R Studio is a popular open-source integrated development environment (IDE) for data analytics and statistical computing.

The FDP will be focusing on giving a handful of knowledge and training on different Data Analysis Techniques. It will provide hands-on experience for an in-depth understanding of statistical tools and their application using in R-studio. The participants will be able to do their research with new advanced software with an easy interface.

This FDP will provide participants with a solid foundation in data analytics with R Studio. By the end of the FDP, participants will be able to import, clean, visualize, and analyze data using R Studio. They will also be familiar with machine learning techniques and data security and privacy considerations in data analytics.



# KEY DELIVERABLES

- Developing a comprehensive understanding of R & R-Studio
- Strengthen the application of R- programming in data processing, analyzing and visualization.
- Familiarize with machine learning techniques, data security and privacy consideration while applying data analytics.

## ABOUT RESOURCE PERSON



### **Prof. Neeraj Kaushik**

**Head of Department, Business Administration**

**National Institute of Technology (NIT) Kurukshetra, Haryana**

**Qualification: B.Tech, MMS, MCA, MMC, MIPL, MSW, LLB, UGC-NET, Ph.D**

Prof. Kaushik is an academican and researcher with over 25 years of experience. He is an avid researcher, prolific writer and trainer of immense repute. He has conducted over 350 workshops on MS Excel, SPSS, AMOS, Smart PLS and R Studio. Presently Prof. Kaushik is Head of Business Administration at the National Institute of Technology (NIT) Kurukshetra, Haryana. He is a member of the Editorial Board of Peer Reviewed Journals of National and International repute published by leading publication houses like Taylor & Francis, Sage and Emerald etc. He has been a Guest Faculty at IIM, Lucknow and IIM, Rohtak. His online training sessions on Data Analytics uploaded on YouTube and other social media platforms are widely reviewed and referred to. He also received Gold medal in MMS Program.

### **Registration Fee**

<b>Research Scholars</b>	<b>INR 2000/-</b>
<b>Academicians</b>	<b>INR 3000/-</b>
<b>Corporate Professionals</b>	<b>INR 4000/-</b>

## Mode of Payment

The registration fee is payable through online payment in favour of “IMS Unison University Dehradun”.

### **PAYMENT DETAILS:**

**Beneficiary Name** : **IMS Unison University**  
**Account No** : **15262191003778**  
**Bank** : **Punjab National Bank**  
**IFSC Code** : **PUNB0152610**  
**Branch** : **Makkawala, Dehradun**

# PROGRAM SCHEDULE

Day	Topic	Time
Day 1 10 July 2023 (Monday)	Inaugural Session	9:15-9:30
	Types of Research, Research Process, Variables, Hypothesis, Model, Need for the study	9:30-11:00
	Tea Break	11:00-11:15
	Formulating the Objectives	11:15-1:15
	Lunch Break	1:15-2:00
	Concept of Measurement, Concept of Normality	2:00-3:30
	High Tea Break	3:30-3:45
	Pathway to Statistical Analysis (Table-1/2/3)	3:45-5:15
	Question & Answer Session	5:15-6:00
Day 2 11 July 2023 (Tuesday)	Introduction to R & R-Studio, Concept of Variables / Vector / Packages	9:15-11:00
	Tea Break	11:00-11:15
	Importing (Excel/SPSS/Stata/SAS) File, Script writing	11:15-1:15
	Lunch Break	1:15-2:00
	Univariate Analysis using R-Studio: Summarytool	2:00-3:30
	Tea Break	3:30-3:45
	Concept of Correlation & Partial Correlation	3:45-5:15
	Question & Answer Session	5:15-6:00
Day 3 12 July 2023 (Wednesday)	Bivariate Analysis: Correlation in R-Studio	9:15-11:00
	Tea Break	11:00-11:15
	Hypothesis testing (Parametric tests- t & One-way ANOVA)	11:15-1:15
	Lunch Break	1:15-2:00
	Hypothesis testing (Non-Parametric tests: Chi-square test, U-test, H-test)	2:00-3:30
	Tea Break	3:30-3:45
	Regression: Simple and Multiple	3:45-5:15
Question & Answer Session	5:15-6:00	
Day 4 13 July 2023 (Thursday)	Stepwise Regression Analysis	9:15-11:00
	Tea Break	11:00-11:15
	Constructs (Reflective & Formative) vs Composites	11:15-1:15
	Lunch Break	1:15-2:00
	Validity & Reliability	2:00-3:30
	Tea Break	3:30-3:45
	Exploratory Factor Analysis (EFA)	3:45-5:15
Question & Answer Session	5:15-6:00	
Day 5 14 July 2023 (Friday)	Confirmatory Factor Analysis (CFA)	9:15-11:00
	Tea Break	11:00-11:15
	Measurement Model: Statistics for Reflective Constructs, Improving Convergent & Discriminant Validity, Nomological Validity, Predictive Validity	11:15-1:15
	Lunch Break	1:15-2:00
	Measurement Model: Statistics for Formative Constructs, Redundancy Analysis, VIF	2:00-3:30
	High Tea Break	3:30-3:45
	Path Analysis: Structural Model- R2, f2, Q2	3:45-5:15
	Question & Answer Session	5:15-5:30
Valedictory Session	5:30-6:00	



## OUR PATRON



**Shri Amit Agarwal**  
Chairman, Board of Governors  
IMS Unison University, Dehradun



**Prof. Gurdip Singh**  
Chancellor  
IMS Unison University, Dehradun



**Brigadier (Dr) M Srinivasan (Retired)**  
Vice Chancellor  
IMS Unison University, Dehradun



**Prof. Ravikesh Srivastava**  
Pro Vice Chancellor  
IMS Unison University, Dehradun

## OUR TEAM

### FDP Chair



**Prof. Amit Adlakha**  
Dean, School of Management

### Convenor



**Prof. Rajeev Srivastava**  
Professor, School of Management

### Organising Secretary



**Dr. Pratibha Rai**  
Assistant Professor, School of Management

## Organising Committee



**Dr. Ankit Srivastava**  
Assistant Professor,  
School of Management



**Dr. Saurabh Singh**  
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