



**SRM**  
UNIVERSITY AP  
— Andhra Pradesh

**A 5-day Online**

# **Faculty Development Programme on Research Data Analysis using R programming & JAMOVI**

**Workshop Dates: December 10-14, 2022**



## **Objective:**

**1**

Gain conceptual knowledge about different methods used in Research methodology

**2**

Difference between data driven research & theory driven research

**3**

Understand R programming from scratch

**4**

Statistical applications using R programming



## Topics

### Research Concepts:

1. Research objectives & Topic Identification
2. Systematic Literature & Gap identification
3. How to develop conceptual model
4. Data driven research uses and implications
5. Factor analysis & Structure equation modelling concepts
6. Mediation & Moderation Concepts
7. Importance of methodology: Discussion on new methods
8. What reviewer expects from research paper: A panel discussion

### Methodology:

9. Data exploration & preparation using R & JAMOVI
10. Univariate data analysis using R & JAMOVI
11. Hypothesis testing using R & JAMOVI
12. Multivariate analysis using R & JAMOVI:  
Correlation and Regression
13. Factor analysis & structure equation modelling  
hands on session using R & JAMOVI
14. FSQCA



## Target audience:



Academicians, Research scholars, Industry participants and Master students

**Workshop Dates: December 10-14, 2022**

Students, Academicians, & Research Scholars - **2,000/-** (Including GST)

Industry Participants - **2,500/-** (Including GST)

SRM Scholars - **No Fee**

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# Tentative Resource Persons:



**Dr Bharadhwaj Sivakumaran**

Professor & Dean - SEAMS  
SRM University-AP



**Dr Murugan Pattusamy**

Assistant Professor  
University of Hyderabad



**Dr Rajesh Itamalla**

Assistant Professor  
IIT-Hyderabad



**Dr Namita Ruparel**

Assistant Professor  
Jindal Institute of  
Behavioural Sciences



**Dr Lalita Mohan Mohapatra**

Assistant Professor  
SRM University-AP



**Dr Vinay Ch**

Assistant Professor  
SRM University-AP



**Dr Pradeep Rathore**

Assistant Professor  
SRM University-AP

# Tentative session plan:

Day	Session 1:	Session 2:	Session 3:	Session 4:
	10:00 AM-11:30AM	11:45	02:15 PM-03:45 PM	04:00 PM-05:00 PM
<b>1: December 10</b>	Inauguration (10:00-10:10) Research question identification	Why papers get rejected: A panel discussion	New methodologies in social science research	Art of developing a conceptual model
<b>Resource Persons: Day 1</b>	Dr. Bharadwaj	Dr. Bharadwaj Dr. Harindranat Dr. Murugan	Dr. Murugan	Dr. Pradeep
<b>2: December 11</b>	Paper publication using SLR	Paper publication using SLR, Gap identification	Scale development	Developing a conceptual model
<b>Resource Persons: Day 2</b>	Dr. Namita Ruparel	Dr. Namita Ruparel	Dr. Rajesh	Dr. Rajesh
<b>3: December 12</b>	Inferential Statistics	Correlation & regression concepts & assumptions	Mediation & Moderation concepts and applications	Mediation & Moderation concepts and applications
<b>Resource Persons: Day 3</b>	Dr. Bharadwaj	Dr. Bharadwaj	Dr. Murugan	Dr. Murugan
<b>4: December 13</b>	SEM concepts & applications	SEM concepts & applications	Introduction to R	Data manipulation using dplyr
<b>Resource Persons: Day 4</b>	Dr. Pradeep Rathore	Dr. Pradeep	Dr. Vinay Ch	Dr. Vinay Ch
<b>5: December 14</b>	Descriptive statistics using R	Correlation, Regression using R	Statistics using JAMOVİ	Statistics using JAMOVİ
<b>Resource Persons: Day 5</b>	Dr. Lalit	Dr. Lalit	Dr. Vinay Ch	Dr. Vinay Ch

## Workshop Contact Person:

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