FACULTY DEVELOPMENT PROGRAMME
ON
DATA ANALYTICS
FOR
ADAVNCED RESEARCH
(17-21 January' 2022)

IIM SIRMAUR
KNOWLEDGE . LEADERSHIP

Organized by
Indian Institute of Management
Sirmaur

OBJECTIVES

Since last few decades, the importance of data analysis and interpretation has increased manifold in academic and practionaer domains. However, there exists a number of issues that inhibits the application of research methods and techniques ranging from problem identication to the type of research techniques required to analyse the data and the interpretation of the results so achieved. Therefore, the prime objective of this programme is to tackle these issues by equipping the programme participants with the requisite knowledge for identifying the right research problem, selection of adequate data analysis techniques, application of those research techniques, and interpretation of results.

TOPICS TO BE COVERED

1. Confirmatory Factor Analysis
2. Structural Equation Modelling
3. Introduction to Time Series
4. Time Series Decomposition
5. Exponential Smoothing Methods
6. Stationarity, ACF, PACF
7. Box-Jenkins Methodology
8. Seasonality in Time Series

Exposure to Software: Participants would be given a hands on training on the tools like **R, R-Studio, SPSS & AMOS.**

ABOUT THE INSTITUTE

IIM Sirmaur is situated in the verdant surroundings of Himalayas (located in Paonta Sahib and nearby to Dehradoon). IIM Sirmaur provides an ideal setting to educate and train the best minds of the country, away from the hustle and bustle of metropolitan cities. IIM Sirmaur is one of the 3rd generation IIMs set up by MHRD, Govt. of India.

Paonta Sahib is among the major industrial towns of Himachal Pradesh. The town is an important religious place for the Sikhs, and it attracts pilgrims from around the world. The campus is equipped with modern facilities and latest technology to provide an excellent learning environment for the students. The institute has state-of-the art classrooms equipped with overhead projectors and modern furniture, fully equipped conference rooms with video-conferencing facility, a 24x7 library and a computer lab with latest configuration

machines as well as access to various software and databases.

PATRON

Prof. (Dr.) Neelu Rohmetra
Director, IIM Sirmaur

FDP COORDINATORS

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HOW TO REACH IIM SIRMAUR

By Bus: The nearest bus stand is located at Paonta Sahib. The campus is around 2.5 Kms from the bus stand.

By Rail: The nearest railway stations to IIM Sirmaur are Dehradoon and Yamuna nagar railway stations. IIM Sirmaur campus is around 45 and 60 Kms from Dehradoon and Yamuna Nagar respectively.

By Air: The nearest airports to IIM Sirmaur are Jolly Grant Airport, Dehradoon and Chandigarh Airport which are 78 and 110 Kms (approx..) away from IIM Sirmaur campus respecetively.

NERABY ATTRACTIONS

Renuka Ji lake is a holy place in Sirmaur district of Himachal pradesh. This lake was named after the goddess Renuka. It is well connected by the road from IIM Sirmaur campus and is about 52 Kms. Boating is available on the lake.

Dehradoon is the capital of Uttrakhand and is located at 45 Kms from IIm Sirmaur campus. This place has many tourists attcations such as FRI, Shashtradhara, Robbers' Cave etc.

Mussoorie is a hill station in Uttrakhand which is known for a number of tourists attactions. It is about 80 kilometres from IIM Sirmaur campus.

Rishikesh is a one of the major destination og yaga entusiats, adventure seekers and spirituality postulant. It is around 95 Kms from IIM Sirmaur campus.

Haridwar is considered as one of the seven holiest place to Hindus. It is around 110 Kms from IIM Sirmaur campus.

SESSION SCHEDULE

Day	Session	Topic	Resource Person
17/01/2022	10:30 am - 1:00 pm	Introduction to Time Series (including inaugural session)	Prof. Pradipta Patra
	1:45 pm - 3:45 pm	Exponential Smoothing Models	Prof. Pradipta Patra
	4:00 pm – 6:00 pm	Time Series Decomposition	Prof. Pradipta Patra
18/01/2022	10:30 am-12:30 pm	Stationarity in Time Series, ACF & PACF plots	Prof. Pradipta Patra
	1:15 pm - 3:15 pm	ARIMA Models; Box-Jenkins Methodology	Prof. Pradipta Patra
	3:45 pm - 5:45 pm	Confirmatory Factor Analysis	Prof. Vikas Kumar
19/01/2022	10:30 am - 12:30 pm	ARIMA Models; Box-Jenkins Methodology (Continued)	Prof. Pradipta Patra
	1:15 pm - 3:15 pm	Confirmatory Factor Analysis (Continued)	Prof. Vikas Kumar
	3:45 pm - 5:45 pm	Confirmatory Factor Analysis (Continued)	Prof. Vikas Kumar
20/01/2022	10:30 am – 12:30 pm	Seasonal Arima (SARIMA) Models	Prof. Pradipta Patra
	1:15 pm - 3:15 pm	Structural Equation Modelling	Prof. Vikas Kumar
	3:45 pm - 5:45 pm	Structural Equation Modelling (Continued)	Prof. Vikas Kumar
21/01/2022	10:30 am – 12:30 pm	Session on stress management, human values ethics, health and happiness	The Art of Living (Bangalore)
	1:15 pm – 3:15 pm	Structural Equation Modelling (Continued)	Prof. Vikas Kumar
	3:45 pm – 5:45 pm	Evaluation Feedback Valedictory	