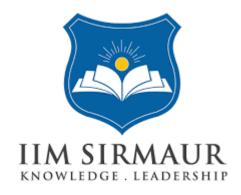
FACULTY DEVELOPMENT PROGRAMME ON**DATA ANALYTICS FOR** ADAVNCED RESEARCH (17-21 January' 2022)



Organized by Indian Institute of Management Sirmaur



OBJECTIVES

data analysis and interpretation has tools like R, R-Studio, SPSS & AMOS. increased manifold in academic and practionaer domains. However, there ABOUT THE INSTITUTE exists a number of issues that inhibits the techniques participants with the requisite knowledge MHRD, Govt. of India. for identifying the right research problem, Paonta Sahib is among the major 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 Since last few decades, the importance of would be given a hands on training on the

application of research methods and IIM Sirmaur is situated in the verdant ranging from problem surroundings of Himalayas (located in identication to the type of research Paonta Sahib and nearby to Dehradoon). techniques required to analyse the data IIM Sirmaur provides an ideal setting to and the interpretation of the results so educate and train the best minds of the achieved. Therefore, the prime objective country, away from the hustle and bustle of this programme is to tackle these of metropolitan cities. IIM Sirmaur is one issues by equipping the programme of the 3rd generation IIMs set up by

> 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 videoconferencing facility, a 24x7 library and a computer lab with latest configuration

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

machines as well as access to various campus is around 45 and 60 Kms from Rishikesh is a one of the major Dehradoon and respectively.

> Sirmaur are Jolly Grant Airport, Dehradoon and Chandigarh Airport Haridwar is considered as one of the which are 78 and 110 Kms (approx..) away seven holiest place to Hindus. It is around from IIM Sirmaur campus respectively. 110 Kms from IIM Sirmaur campus.

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 attentions 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.

Yamuna Nagar destination og yaga entusiats, adventure seekers and spirituality postulant. It is By Air: The nearest airports to IIM around 95 Kms from IIM Sirmaur campus.

SESSION SCHEDULE

Day	Sessi on	Topic	Resour ce Person
	10:30 am - 1:00 pm	Introducti on to Time Series (including inaugural session)	Prof. Pradipta Patra
17/01/20 22	1:45 pm - 3:45 pm 4:00 pm - 6:00	Exponentia l Smoothing Models Time Series Decomposi	Prof. Pradipta Patra Prof. Pradipta
	10:30 am- 12:30 pm	tion Stationarit y in Time Series, ACF & PACF plots	Patra Prof. Pradipta Patra
18/01/2 022	1:15 pm - 3:15 pm	ARIMA Models; Box- Jenkins Methodolo gy	Prof. Pradipta Patra

		3:45 pm - 5:45 pm	Confirmat ory Factor Analysis	Prof. Vikas Kumar
	19/01/2 022	10:30 am - 12:30 pm	ARIMA Models; Box- Jenkins Methodolo gy (Continue d)	Prof. Pradipta Patra
		1:15 pm - 3:15 pm	Confirmat ory Factor Analysis (Continue d)	Prof. Vikas Kumar
		3:45 pm - 5:45 pm	Confirmat ory Factor Analysis (Continue d)	Prof. Vikas Kumar
	20/01/2 022	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 (Continue d)	Prof. Vikas Kumar
	10:30 am - 12:30 pm	Session on stress manageme nt, human values ethics, health and happiness	The Art of Living (Bangal ore)
21/01/20	1:15 pm - 3:15 pm	Structural Equation Modelling (Continue d)	Prof. Vikas Kumar
	3:45 pm - 5:45 pm	Evaluation Feedback Valedictor y	