



PRESCRIPTIVE AND PREDICTIVE ANALYTICS FOR DECISION MAKING



Programme Directors :

Prof. Pradipta Patra, Prof. Kiran Kumar Paidipati
and Prof. Vandana



Programme Dates:

January 27 - 31, 2025



Programme Venue:

IIM Sirmaur, Himachal Pradesh



REGISTER NOW



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INDIAN INSTITUTE OF MANAGEMENT SIRMAUR

Dhaulta Kuan, Paonta Sahib, Himachal Pradesh - 173021

OBJECTIVE



- This is an offline MDP that is being floated with the objective to train the participants on the different facets of decision making via Excel Solver/R/RStudio tools. The program shall help the participants to not only understand the relevant basics of prescriptive analytics and predictive analytics techniques but will also help them to implement the same via tools like Excel Solver/R/RStudio. This will also help them to use real life problems for practical managerial decision making in various domains and industries. Lots of practical case studies, data sets shall be shared with the participants for their benefits and understanding.

PEDAGOGY



- We strongly advocate for a practice-based approach in our prescriptive and predictive analytics course, prioritizing practical application over theoretical discourse. Our methodology emphasizes consistent real-time interaction between the instructor and participants during lecture hours. Our teaching approach is structured as follows: Each topic begins with a conceptual explanation of the algorithm or theory, omitting extensive mathematical complexities. Following this, a practical project/case study is undertaken to implement these techniques via advanced statistical tools like R, RStudio, Excel Solver etc. Datasets required for the practical implementation will be provided in advance. The practical exercises not only reinforces understanding but also provide an avenue for participants to seek clarification by solving problems in real-time.

WHO MAY ATTEND



- Students, Research scholars, Academicians, Corporate managers, Industry professionals

KEY TOPICS



- Basics of Prescriptive Analytics
- Linear Programming
- Variants of Linear Programming
- Integer Programming
- Multi Criteria Decision Making
- Time Series Forecasting.

TERMS AND CONDITIONS

- Participants would have to make their own travel arrangements.
- Accommodation at IIMS will be provided till 12:00 noon on January 24, 2025. Participants staying beyond this time will have to bear additional stay and food charges, which they have to settle directly with the hospitality service provider, conditional upon room availability.
- Cancellation Policy: In case you/your nominated candidate(s) does(do) not attend the programme, 40% of the programme fees will be retained, as per policy.

PROGRAMME DETAILS

Duration: January 27 - 31, 2025

Programme Commencement: 10.00 AM on January 27, 2024

Programme Conclusion: 5.00 PM on January 24, 2025

Venue: IIM Sirmaur Campus

Accommodation

Check in: January 26 (6.00 PM onwards)

Check out: January 31 (till 1.00 PM)

PROGRAMME DIRECTOR

- **Dr. Pradipta Patra** is working as an Associate Professor in the Area of Decision Sciences at IIM Sirmaur. Dr. Pradipta Patra has a FPM (Fellow Programme in Management) from IIM Bangalore and MSc Mathematics from IIT Madras. Dr. Patra has taught (in the past) at reputed business schools such as Woxsen School of Business Hyderabad, IMI Bhubaneswar, IIM Sambalpur and NarseeMonjee Hyderabad. He has taught courses for both the 2 year regular program as well as the 1 year executive program. An expert in the Decision Sciences area he teaches courses like Probability, Statistics, Operations Research, Business Analytics, Data Analytics using R and Business Forecasting to name a few. He has also published articles in peer reviewed International Journals and conducts MDPs (management development programmes) for reputed organizations. Dr Patra has also 5 years of work experience in the software industry (between MSc and FPM).

Dr. Kiran Kumar Paidipati is working as an Assistant Professor in the Area of Decision Sciences at IIM Sirmaur. Prior to this, he served as an Assistant Professor in the Department of Statistics, Lady Shri Ram College for Women, University of Delhi, New Delhi. He also worked as a UGC Post-Doctoral Fellow in the Department of Statistics, Pondicherry University, Puducherry. As an academician, he had more than four years of teaching and research experience.

■ **Dr. Paidipati** completed his Ph.D. in Statistics from Pondicherry University in 2016 and M. Sc. Statistics from Sri Venkateswara University, Tirupati. His research areas include Stochastic Modeling, Operations Research, and Data Science. The applications of his research work confine to measure the glucose and insulin levels through Stochastic Models, Agricultural Resource Management, and Diet Management of Diabetes through Optimization Models. He is now working for the proposed international collaborations with France and the BRICS countries. He published several research papers and book/book chapters at National/International levels.

Dr Vandana is working as an Assistant Professor in the area of Decision Sciences at the Indian Institute of Management Sirmaur. Prior to this, she has served as an Assistant Professor in the Humanities and Science department at the Indian Institute of Information Technology Dharwad. She worked as an Institute Post-Doctoral Fellow at the Department of Management Studies, Indian Institute of Technology, Madras. She has also worked as a Visiting Scientist in SQC OR Unit, Indian Statistical Institute Kolkata, West Bengal.

Dr Vandana completed her PhD in Applied Mathematics from the Pt. Ravishankar Shukla University, Raipur. Her research interest includes Game-theoretic approaches in the supply chain, Supply chain management, Inventory control, Mathematical modelling, Credit policy, Credit Risk, etc. She has published her research papers in SCI/SCIE, Scopus, ESCI/Web of Science, and ABDC listed Journals. She is serving as a reviewer in peer-reviewed journals like ABDC, Elsevier, Springer, Taylor & Francis, Wiley, etc.

She holds a meritorious award/Gold Medal for securing the first rank in MSc Mathematics among all colleges affiliated to the PRSU Raipur. She has participated as resource person at various professional development seminars, conferences, workshops, FDP to remain abreast of new technologies, innovative delivery methods, and statistical techniques and tools.

PROGRAMME FEES

- **Residential (R):** INR 20,000/- plus taxes and surcharges as applicable.

Non-residential: INR 8,500/- plus taxes and surcharges as applicable.

We would strongly encourage candidates to enroll as Residential participants, as the experience of an MDP is optimized in a full-immersion mode.

Discount on Programme fees: A discount of 10% on the Programme fees can be availed by an organization if it nominates at least 4 participants for a particular MDP.

HOW TO APPLY

- To apply or nominate personnel for the Programme, click on the "Register Now" link in the brochure or visit <https://www.iimsirmaur.ac.in/mdp/mdp-calendar>
- Once the candidature is approved, the sponsoring authority or participant (in case of self-nomination) will receive an email with a Payment Advice requesting the Programme fees in advance.
- Programme fees can be remitted online through Electronic Fund Transfer (NEFT/RTGS). After remitting the fees online, please inform the CMDP office of the UTR number or relevant transaction details via email. This will allow us to connect your remittance to your nomination(s).
- Please note that confirmation of participation is subject to receipt of Programme fees by the CMDP office before the commencement of the MDP.

HOW TO REACH IIM SIRMAUR

IIM Sirmaur is located in Dhaula Kuan, in Himachal Pradesh. The distance of Dhaula Kuan from Jolly Grant Airport Dehradun is 96 km. It takes 2 hours and 30 minutes from Dehradun Airport, 2 hours and 30 minutes from Chandigarh Airport, and 6 hours and 20 minutes from Delhi Airport to reach Dhaula Kuan. The nearest Railway stations are Yamuna Nagar, Saharanpur, and Dehradun. They are all located approximately at one and half hour taxi drive from Paonta Sahib.

NEAR BY TOURIST DESTINATIONS

- Renuka Lake: Located 31 km away
- Kalesar National Park: Located 38 km away
- Gurudwara Paonta Sahib Ji: Located 21 km
- Mussoorie: Mussoorie is a hill station located 99 km away
- Haridwar: Haridwar is a holy city situated 119 km away



Our correspondence address is as follows:

MDP Office

Indian Institute of Management Sirmaur, Dhaula Kuan, Paonta Sahib, Himachal Pradesh - 173021

Phone: 01704 277367

Email: mdpoffice@iimsirmaur.ac.in | Weblink: <https://www.iimsirmaur.ac.in/mdp/mdp-calendar>

**For all other details on administrative matters please refer our website
www.iimsirmaur.ac.in/mdp/ or e-mail to mdpoffice@iimsirmaur.ac.in**