



**Department of
Management Studies
and Industrial Engineering
IIT (ISM) Dhanbad**



Faculty Development Programme on Research Methodology

16th to 20th October 2023

Venue: IIIF, IIT (ISM) Delhi Centre, NBCC Building, Okhla Phase 1, Delhi

Topics to be covered

- Introduction to Research Methodology and Data Types
- Research Design, Questions, Objectives, and Hypotheses
- Data Collection, Editing, Transformation, and Cleaning
- Parametric Tests & Non-Parametric Tests
- Multiple Regression Analysis
- Multicriteria Decision Making Analysis
- Exploratory Factor Analysis; Confirmatory Factor Analysis; Structural Equation Modeling
- Time Series Analysis for Financial Modelling
- Panel Data Analysis
- Machine Learning for research

Objectives of the FDP

1. To help assist those who are contemplating or about to register for a PhD programme by providing foundational insights into research methodologies and practices.
2. To cater for the needs of scholars in the initial stages of their PhD, faculties-cum-research scholars, regular/visiting faculties, and teachers across undergraduate and postgraduate management, engineering institutes, and science colleges.
3. To educate PhD scholars from various management, engineering, and science institutes about the essential tools and techniques for informed decision-making within research contexts.
4. To establish and strengthen links with research institutes and organizations actively engaged in research initiatives, promoting a community of knowledge-sharing and collaboration.

Who should apply

1. Academic Faculty and Researchers: Faculty members, academicians, and research scholars across various fields, who wish to enhance their understanding and application of research methodologies.
2. Industry Professionals and Executives: Individuals from the industry actively engaged in research or seeking to apply research methods to real-world problems, including decision-making and strategic planning.
3. Practitioners Across Functional Areas: Professionals working in diverse functional areas who have an interest in research, including those pursuing innovations, improvements, or a comprehensive understanding of specific domains.

Important to note

1. FDP will be conducted in Offline Mode at Delhi Centre of IIT (ISM) Dhanbad.
2. Participants will have to arrange for their own boarding and lodging.
3. Every registered participant will get useful quality material on the topic of an event.
4. Authentic Certificates (with proper signature, logo and registered awarded by the Indian Institute of Technology (Indian School of Mines), Dhanbad) will be issued to registered participants.
5. Organizers encourage all participants for Learning and Knowledge exchange followed by one-to-one discussion.
6. Doubt Clearing Session (extra inputs will be given) on successful completion of an event

Registration Fee

The registration fee for this Faculty Development Programme (FDP) is 5000 INR + 18% GST for Research Scholars/Students and 10000 INR + 18% GST for Academicians and participants from Industry, which includes registration kit, working lunch and tea on the days of FDP. Please note that this fee is non-refundable, and no fee/money-back policy is applicable.

Last Date for Registration: 06/10/2023 till 05:00 P.M.

Late registration will not be entertained.

Registration Form Link

<https://forms.gle/27MHTrkNHQyu5Um67>

Payment Link

https://eps.eshiksa.net/DirectFeesv3/IIT_Dhanbad/index

After opening this link, under payment category select – Conference/Course Fee and under Program Name select – Fee for FDP

**FDP will be conducted only if desired number of participants register for it.*

Resource Persons

Guest speakers from IITs/IIMs/NITs

Organising Institute

The Indian Institute of Technology (Indian School of Mines), constituted under the Institute of Technology Act, 1961 is administered through IIT Council-the apex body, Government of India under the Chairmanship of Honourable Minister, MoE for uniform and smooth governance of Pan-IIT in our country. The vision and mission of the Indian Institute of Technology (Indian School of Mines), hereafter referred to as IIT(ISM), is to establish itself as a distinguished institution of higher education in the fields of technology and science, both nationally and internationally. This institution is committed to fostering a culture of intellectual excellence, promoting the development of innovative ideas, encouraging research and scholarship, and upholding the principles of intellectual integrity.

Organising Department

The Department of Industrial Engineering and Management was established in 1977 offering M. Tech programme in Industrial Engineering and Management (IE&M). Having run the M. Tech. programme in IE&M for two full decades, the department gained requisite experience as well as expertise for running the MBA program. Keeping pace with the changing times, the erstwhile Department of Industrial Engineering and Management (IE&M) was restructured and re-christened as Department of Management Studies & Industrial Engineering and launched its MBA programme in 1997. The department has been able to make a mark in the industry, with the alumni making their presence felt across all the leading industries of the country. With the introduction of dual degree programme in the areas of Mining, Mineral and Petroleum Management, the department has taken a lead in emphasizing the effective management of core sector as well. Since its inception, the department has been moving ahead, continuously in tandem with the growth and diversification in the business field maintaining constant interaction with various industries. To its credit the department has successfully completed several consultancy assignments, in-house and off-campus executive development programmes and specific research projects supported by AICTE, UGC, ICSSR, MHRD, DGMS, CMPFO, NHPC, Power Grid, CIMFR, CIL, World Bank etc.



Chief Patron

Prof. Prem Vrat,
Chairman, BoG, IIT(ISM) Dhanbad

Patron

Prof. J.K. Pattanayak,
Director (Officiating), IIT (ISM) Dhanbad

Advisory Committee

Prof. Bibhas Chandra,
HOD DMSIE, IIT (ISM) Dhanbad
Prof. Saumya Singh,
DMSIE, IIT (ISM) Dhanbad

Organizing Committee

Prof. Himanshu Gupta
(Coordinator), DMSIE,
IIT (ISM) Dhanbad

Prof. Shashank Bansal
(Co-Coordinator), DMSIE,
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