CURRICULUM VITAE

Dr. RASHMI SINGH
Assistant Professor (Operations & Analytics)
Department of Management Studies & Industrial Engineering, IIT (ISM) Dhanbad
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Dr. Rashmi Singh is an Assistant Professor at IIT (ISM) Dhanbad working in Modelling and Operations Analytics, with research spanning Operations Research, Simulation & Optimization, Decision Analytics, and Systemic Cyber Risk.

Key achievements include

- **₹4.95 Crores research funding** mobilized from national agencies including **NCSTC, SEED, DST, Ministry of Tribal Affairs, ICSSR, Coal India Limited, and BCCL**; Principal Investigator **(PI) of 9 sponsored projects** and Co-PI of 2 major projects.
- 15 peer-reviewed journal publications, including 4 WoS Q1, 5 WoS Q2 and 4 WoS Q3, 1 ABDC-A and 1 Scopus publications, along with two Springer book chapter.
- Consultancy projects worth **₹44.6 Lakhs.**
- Executive education programmes **generating ₹1.5+ Crores**.
- Research and outreach impact on **9,000+ students**, **(3756 – Tribal Household data collected)** and **400+ tribal beneficiaries through S&T Intervention**, and **60+ women entrepreneurs**.

Research Areas

- Modelling & Operations Analytics
- Operations Research, Simulation & Optimization
- Decision Analytics
- Systemic Cyber Risk & Financial Networks
- Production Planning, Scheduling & Control

Academic Qualification

- **Doctor of Philosophy (PhD)**: **Indian Institute of Science (IISc), Bangalore** from Faculty of Engineering (2017).
- **Master of Science in Engineering (MSc. (Engg))**: **Indian Institute of Science (IISc), Bangalore** from Faculty of Engineering with CGPA: 6.4/8.0, First Division.
- **Bachelor of Engineering (Electronics & Communication): Birla Institute of Technology (BIT) Mesra Ranchi** (2009) (Marks: 86%) First Class with Distinction.

Doctoral Research Details

Research Area: Scheduling in Semiconductor Manufacturing Industries
Title: Investigation of Existing Release Policies & Development of a Few Efficient Release Policies for Wafer Fabrication System – **A Simulation Approach**.

Advisor: Prof. M. Mathirajan (**Former President of Operations Research Society (ORSI), India**)

Selected Journal Publications — Web of Science (WoS) /JCR Q1/Q2/Q3/ABDC/Scopus

Authors	Title	Journal	Year	DOI
		WoS, JCR (Q1) #4		
Santanu Mondal & **Rashmi Singh**	Enhancing Cyber Resilience in Financial Networks: A High uncertainty Simulation Tool for Probabilistic Risk Assessment and Strategic Resource Allocation	*Reliability Engineering & System Safety*	2026	10.1016/j.ress.2026.112961
Sumita Biswas, **Rashmi Singh** & Niladri Das	Livelihood risk, security, and resilience: understanding wellbeing among indigenous households in India	*Wellbeing, Space and Society*	2026	https://doi.org/10.1016/j.wss.2026.100493
Deependra Pal, **Rashmi Singh** & Niladri Das	Adaptive Entrepreneurial Logics and Rural Enterprise Performance: Role of Dynamic Capabilities and Digital Technology Adoption	*Management Decision*	2026	10.1108/MD-11-2025-3409
Sumita Biswas, **Rashmi Singh** & Niladri Das	A new paradigm for assessing the relationship between indigenous wellbeing and health: A meta-analytical study of critical factors in a global context	*Social Indicators Research*	2024	https://doi.org/10.1007/s11205-024-03446-0
		WoS, JCR (Q2) #5		
Sandip Dighore, **Rashmi Singh** & Niladri das	Data driven credit risk modelling for peer-to-peer lending platforms: a machine learning approach	*International Journal of System Assurance Engineering & Management*	2026	10.1007/s13198-026-03434-2
Santanu Mondal & **Rashmi Singh**	Cyber risk propagation and budget optimization in financial networks: a Monte Carlo approach	*International Journal of System Assurance Engineering & Management*	2025	https://doi.org/10.1007/s13198-025-03050-6
Deependra Pal, **Rashmi Singh** & Niladri Das	Entrepreneurship and MSMEs' financial performance: A bibliometric analysis and future research avenues	*Journal of International Entrepreneurship*	2025	https://doi.org/10.1007/s10843-025-00399-4
Rashmi Singh & M Mathirajan	Investigation of Different Inputs and A New Release Policy in Proposed Simulation Model for Wafer Fabrication System	*Sadhana - Academy Proceedings in Engineering Sciences*	2019	*https://www.ias.ac.in/article/fulltext/sadh/044/02/0041*
Rashmi Singh & M Mathirajan	Experimental Investigation for Performance Assessment of Scheduling Policies in Semiconductor Wafer Fabrication – A Simulation Approach	*International Journal of Advanced Manufacturing Technology*	2018	*https://link.springer.com/article/10.1007%2Fs00170-018-2414-y*
		WoS, JCR (Q3) #4		
Madhu Kumari, **Rashmi Singh** & V.B. Singh	Prioritization of Software Bugs Using Entropy-Based Measures	*Journal of Software: Evolution and Process*	2024	https://doi.org/10.1002/smr.2742

Rashmi Singh & M Mathirajan	Simulation modeling techniques for managing epidemic outbreak: a review, classification schemes, and meta-analysis	*Journal of Simulation*	2023	*10.1080/17477778.2022.2067012*
Rashmi Singh & M Mathirajan	A New Stage-Wise Control Release Policy for Semiconductor Wafer Fabrication Systems	*IEEE Transactions on Semiconductor Manufacturing*	2021	*10.1109/TSM.2020.3042856*
Mahamaya Mohanty**,** **Rashmi Singh** and Ravi Shankar	Improving the Operational Efficiency of Outbound Retail Logistics Using Clustering of Retailers and Consumers	*Journal of Modelling in Management*	2018	*https://doi.org/10.1108/JM2-12-2016-0137*
ABDC/Scopus Journal (#2)				
Romi R. & **Rashmi Singh**	Ethical Concerns in Metaverse Development: A Mixed-Methods Study of Indian IT Professionals	*Restitution Law Review* ***(ABDC – A)***	2026	https://doi.org/10.65677/rlr.v34i2.360
Abhinav Karthikeyan Ravichandran & **Rashmi Singh**	Investigating the potential domino effect of a dazzling fiscal-period on CSR performance: a luxury brand scenario	*International Journal of Corporate Social Responsibility* ***(Springer)***	2024	https:/doi.org/10.1186/s40991-024-00092-0
Book Chapter (#2)				
Santanu Modal & **Rashmi Singh**	Beyond Risk Matrices: A Data-Driven Framework for Optimal Cybersecurity Investment	*Data Analytic Models for supporting Managerial Decisions* ***(Book Chapter), Springer***	2026	Under Publication process
Sumita Biswas, **Rashmi Singh** & Niladri Das	Assessing the Impact of ESG Initiatives on Financial Performance in the Energy Sector from Developing Countries: Efficiency Analysis and Productivity Growth by Data Envelopment Analysis and Malmquist Index	*Data Analytics for Decision Making towards Business Excellence. Uncertainty and Operations Research. Springer, Singapore.* ***(Book Chapter), Springer***	2025	https://doi.org/10.1007/978-981-95-2429-7_10

Details of Sponsored Research Funding Received as Principal Investigator (PI)/(Co-PI)

Project Title	Funding Agency	Sanctioned Amount	Duration	Status	Role

Developing a Framework for policy formulation of Rural Transformation through creation of Dynamic Entrepreneurial Ecosystem for Maximizing Rural Entrepreneurial Success using Agent-based Simulation and RCT studies	National Science and Technology Management Information System (NSTMIS), DST, GoI.	**Rs. 46,76,800**	Two Year	***Accepted***	***PI***
Promoting STEM Education for Underprivileged and Project Affected Person (PAP) students of BCCL areas in Dhanbad through Innovative Techniques: A logical, Digital, and Experimental Approach for Learning.	Bharat Coking Coal Limited (BCCL) Dhanbad	**Rs. 33,13,200**	one year (10th February 2026 – 10th February 2027)	***Ongoing***	***PI***
Development of Strategic Interventions through Innovative Techniques to Promote STEM Education among underprivileged students with special emphasis on PAP (Project Affected Person) students in Dhanbad.	Bharat Coking Coal Limited (BCCL) Dhanbad	***Rs. 9,99,900***	six months (20th August 2024 – 20th February 2025)	***Completed***	***PI***
Capacity Building Training Programme on Basic Level and Advanced Level Information Technology and Computer Training for Tribals in Jharkhand under Center of Excellence (CoE) Scheme.	Ministry of Tribal Affairs (MOTA), GoI.	**Rs. 1,92, 47,184**	four years (28th March 2024 – 28th March 2028)	***Ongoing***	***PI***
Improving the Economic Well-Being of Scheduled Tribe Communities (ST) Using Game Theoretic and Operations Research Techniques in Jamtara District of Jharkhand State.	Science for Equity Empowerment and Development (SEED), DST, GoI.	***Rs. 60,75,000***	Three years (22nd February 2022-21st August 2025)	***Completed***	***PI***
Motivate School Students and Teachers Concerning the Relevance of Science and Technology through Innovative Communication Techniques.	National Council for Science and Technology Communication (NCSTC), DST, GoI.	***Rs. 18,82,000***	two years (March 2022-March 2024)	***Completed***	***PI***
Development of Strategic Interventions through Communication and Science Media for Enforcing Sustainable and Healthy Lifestyles among School Children, Teachers and Women.	National Council for Science and Technology Communication (NCSTC), DST, GoI.	***Rs. 13,27,000***	one year (December 2020-December 2021)	***Completed***	***PI***
Designing and delivering Capacity Building Programme for High Quality	Coal India Limited (CIL), Kolkata.	***Rs. 39,85,000***	two years (20th January	***Ongoing***	***Co-PI***

Millet Cultivation to empower Tribal Women Entrepreneurs in West Bengal creating digital marketing platform for effective delivery.			2025-20th January 2027)		
Factors Affecting Transformational Rural Development and Enhanced Employment Opportunities through Sustainable Entrepreneurial Ventures in Rural areas of Eastern India.	Indian Council of Social Science and Research (ICSSR), GoI.	***Rs. 13,67,000***	two years (20th March 2023-12th June 2025)	***Completed***	***Co-PI***
High-End Workshop on Stochastic Modeling Technique	Science and Engineering Research Board (SERB), DST, GoI.	***Rs. 5,00,000***	three months (December 2022 - February 2023)	***Completed***	***PI***
High-End Workshop for Enriching the Minds of the Young Talented Researchers and Students with the Data Science and Analytical Tools and Techniques.	Science and Engineering Research Board (SERB), DST, GoI.	***Rs. 5,00,000***	two months (May 2021-July 2021)	***Completed***	***PI***
Investigation of Status Quo of Digital Manufacturing in India and Exploration of Digital Shop Floor System with Big Data Analytics	Indian Institute of Technology (ISM) Dhanbad	***Rs. 8,50,000***	3 years (December 2020-December 2023)	***Completed***	***PI***

**** Total Funding: Rs. 4+ Crores***

Consultancy (As Consultant Incharge)

- **Consultant In-charge:** "**Conducting Social Impact Assessment Study for 14 Villages under Gare Palma Sector-1 Coal Mines**" for **Jindal Power Limited (JPL) 12th November 2024-12th February 2025**, Raigarh. **(Value: Rs. 44,60,400; Cons No.: CONS/7371/2024-2025;** & **Status: Completed)**

Executive Development Program (As Consultant In-charge: 8/Co-Consultant In-charge: 6)

Title	Funding Agency	Amount	Duration & Venue	Role
EDP on Project & Financial Management with Project Management and Simulation Software for Executives of SECL.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 11,80,000**	27th -31st July 2026, Venue: IIT (ISM) Dhanbad.	**Co-CI**
EDP on Data Analytics for Project & Financial Management with Application Software for Executives of SAIL.	**Steel Authority of India Limited (SAIL), Bokaro**	**Rs. 7,08,000**	22nd - 24th July 2026, Venue: SAIL Bokaro.	**CI**

Working Capital Management in Power Projects.	**National Hydroelectric Power Corporation (NHPC) Limited**	**Rs. 9,44,000**	18th – 20th February 2026, Venue: IIT (ISM), Dhanbad.	**Co-CI**
EDP on Project & Financial Management and Simulation Software for Executives of SECL.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 12,39,000**	27th -31st January 2026, Venue: SECL, Bilaspur.	**CI**
MDP on 5-day Leadership & Management Development Programme for Elected Representatives and Functionaries of the DoPR, Govt. of Jharkhand"	**Department of Panchayati Raj (DoPR), Govt. of Jharkhand.**	**Rs. 37,50,000**	10th-14th, 17th-21st, and 24th-28th November 2025, Venue: IIT (ISM) Dhanbad.	**Co-CI**
EDP on Project & Financial Management with MS Project Management and Simulation Software for Executives of SECL.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 12,39,000**	2nd-6th June 2025, Venue: SECL, Bilaspur.	**CI**
EDP on Project & Financial Management with MS Project Management and Simulation Software for Executives of NCL Singrauli.	**Northern Coalfields Limited (NCL), Singrauli, Madhya Pradesh**	**Rs. 12,39,000**	19th-23rd May 2025, Venue: NCL, Singrauli.	**Co-CI**
EDP on Project & Financial Management with MS Project Management and Simulation Software for Executives of SECL.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 12,39,000**	6th-10th January 2025, Venue: SECL Bilaspur	**CI**
Certificate Program on Project and Financial Management with Project Management and Simulation Software for Executives of CCL.	**Central Coalfields Limited (CCL), Ranchi, Jharkhand**	**Rs. 10,62,000**	3rd – 7th September 2024, Venue: CCL, Ranchi	**CI**
Working Capital Management in Power Projects.	**National Hydroelectric Power Corporation (NHPC) Limited**	**Rs. 9,44,000**	28th – 30th August 2024, Venue: IIT (ISM), Dhanbad	**Co-CI**
EDP on Project & Financial Management with Project Management and Simulation Software for Executives of SECL.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 14,16,000**	5th – 9th August 2024, Venue: SECL, Bilaspur.	**CI**
Project and Financial Management with Project Management and Simulation Software for Executives of BCCL.	**Bharat Coking Coal Limited, Dhanbad**	**Rs. 6,49,000**	6th -10th May 2024, Venue: IIT (ISM), Dhanbad.	**Co-CI**
Certificate Programme on Project and Financial Management with Application Software.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 14,16,000**	24th – 28th July 2023, Venue: SECL, Bilaspur.	**CI**
Certificate Programme on Project and Financial Management with Application Software.	**South Eastern Coalfields Limited (SECL), Bilaspur**	**Rs. 14,16,000**	22nd – 26th May 2023, Venue: IIT (ISM), Dhanbad.	**CI**

Thesis/Project Guidance

Completed Ph.D. Supervision

Guide for research scholar: Dr. Santanu Mondal (22DR0212) who had submitted his Ph.D. thesis entitled as "**Development of an Integrated Stochastic Optimization Models and AI-Driven Framework for Systemic Cyber Risk Management in Interdependent Financial Networks**" in partial fulfilment of the requirement for award of degree Doctor of Philosophy at IIT (ISM) Dhanbad and successfully **defended his thesis** on 18th May 2026.

Co-Guide for research scholar: **Dr. Surajit Dey (12DR1031)** who had submitted his Ph.D. thesis entitled as "**Development of Decision Support System for Operational Scheduling of Major Earth Moving Equipment in an Opencast Coal Mine**", in partial fulfilment of the requirement for award of degree Doctor of Philosophy at IIT (ISM) Dhanbad and successfully **defended his thesis** on 23rd July 2021.

- **Current Ph.D. scholar-**

1. Mrs. Romi (**Regn. No.: 22DR0193**), a full-time research scholar from the Department of Management Studies & Industrial Engineering.
2. Mr. Abhishek Kumar Tarun (**Regn. No.: 23DR0002**), a full-time research scholar from the Department of Management Studies & Industrial Engineering.
3. Mrs. Sumita Biswas (**Regn. No.: 23DR0331**), a full-time research scholar from the Department of Management Studies & Industrial Engineering.
4. Mr. Sachin Kumar Singh (**Regn. No.: 23DP0086**), a part-time research scholar from the Department of Management Studies & Industrial Engineering.
5. Mr. Akash Kumar (**Regn. No.: 26DP0065**), a part-time research scholar from the Department of Management Studies & Industrial Engineering.
6. Mr. Tarun Kumar Sambharwal (**Regn. No.: 26DP0107**), a part-time research scholar from the Department of Management Studies & Industrial Engineering.

Selected Awards and Recognition

- Women Achiever of the Year 2023
- Best Student Paper Award – ORSI
- SERB International Travel Support (twice)
- Recipient of MHRD Doctoral Scholarship
- NCSTC Project Rated "Excellent"

Career Highlights

- Ph.D. Supervision: 2 completed; 8 ongoing (4 full-time and 4 part-time).
- M. Tech Supervision: 14 Completed & 3 Ongoing; MBA: 1 Completed, MBA (BA): 8 Completed, & Ex-MBA: 1 Completed, MBA/MBA (BA): 2 Ongoing

International Academic Engagement

- IFORS 2026, Vienna
- IFORS 2023, Chile
- APORS 2022, Manila
- MISTA 2015, Prague
- ISMI 2015, South Korea
- IEEE IEEM 2014, Malaysia

Academic Service

❖ **Journal Reviewer**

- Harvard Business Publishing
- International Journal of Production Research
- Annals of Operations Research
- Computers & Industrial Engineering
- Simulation
- International Journal of Industrial and Systems Engineering

❖ **Conference Roles**

- Session Chair, IFORS 2026
- Session Chair, APORS 2022
- Convener, ICDTBESDVB 2025

Academic Leadership

- Executive MBA Co-Coordinator
- DUGC Convener
- Senate Member
- Chief Warden
- Faculty Coordinator (International Relations)
- PIC Guest House
- Training & Placement Faculty Coordinator

Societal Impact

- Basic and advanced information technology training program to enhance digital literacy among tribal communities of Jharkhand. Designed DST-supported interventions for improving economic well-being of Scheduled Tribe communities (**1026+ tribal communities**).
- Designed and implemented entrepreneurship and livelihood development initiatives for tribal women through CSR-supported interventions (**60+ women entrepreneurs)**.
- Led STEM outreach initiatives: Promoted STEM education through innovative techniques: a logical, digital and experimental approach among underprivileged impacting over 9,000 government school students in mining-affected regions.

Invited Talks

- Invited as Esteemed Panelist to discuss Key Opportunities & Challenges related to Digital Technologies Adoption in Heavy Industries in "**Digital Transformation Summit**" organized by PTC Sonepar at the Westin Hotel, New Town, Kolkata, 17th May 2024.
- Invited as "Chief Guest" at Dhanbad Public School in "Library Week – Curiosity Quench", 16th January 2024.

Details of International Conference & Paper Presentation

Authors	Title	Conference	Year	Venue & Date
Rashmi Singh and Santanu Mondal	Cyber Wars and Budgets: A Game Theory Guide to Smarter Security Spending	*24th Conference of the International Federation of Operations Research Societies* ***(IFORS 2026)***	2026	***Austria - Vienna (July 12-17, 2026)***
Rashmi Singh, Sambuddha Maitra, & Pragya Bajpai	Facilitating Human Capital Quality Control in Service Industry: A Case Study on Urban Company using Automated Query Systems, Visual Tracker Enabled Dashboards and Spreadsheet-based Communication Tools	*23rd Conference of the International Federation of Operations Research Societies* ***(IFORS 2023)***	2023	***Santiago - Chile (July 10-14, 2023)***
Rashmi Singh and Pragya Bajpai	Optimize the Idle Freight for Flat Products Via Rail Network: Case Study in Steel Industry	*13th Conference of the Association of Asia Pacific Operations Research Societies* ***(APORS 2022)***	2022	*Eastwood Richmonde Hotel, Quezon City,* ***Manila (November 9 - 12, 2022)***
Rashmi Singh and M Mathirajan	A Simulation Study for Assessing the Impact of Release Policies, Dispatching Rules and System Factors in Semiconductor Wafer Fabrication	*Fourth International Conference on Business Analytics and Intelligence* ***(ICBAI 2016)***	2016	*Indian Institute of Science*, Bangalore, India (*19-21, Dec. 2016).*
Rashmi Singh and M Mathirajan	Simulation Based Experimental Investigation for Performance Assessment of Scheduling Policies in Wafer Fabrication.	*International Symposium on Semiconductor Manufacturing Intelligence* ***(ISMI2015)***	2015	KAIST, Daejeon, South Korea (*16-18, Oct. 2015).*
Rashmi Singh and M Mathirajan	Simulation Based Cause and Effect analysis of Input Variables in Wafer Fabrication Re-entrant Flow.	*Multidisciplinary International Scheduling Conference: Theory &*	2015	Prague, Czech Republic (25th – 28th August 2015).

		Applications ***(MISTA 2015)***		
Rashmi Singh and M Mathirajan	A Conceptual Framework for the Performance Assessment of Lot Release Policies	*The IEEE International Conference on Industrial Engineering and Engineering Management* ***(IEEM 2014)***	2014	Malaysia, Selangor, pp: 948-952, (9th to 12th December).

Details of National Conference & Paper Presentation

- R. Romi and **Rashmi Singh**. (2026). Shaping the Future of HR: A Metaverse-Driven Framework for Connecting Employer Branding and Employee Engagement. *Presented in 6th Human Resource International Conference* ***(HRIC 2026)***, 9th – 11th April 2026, IIM Bangalore.
- **Rashmi Singh** and M Mathirajan. (2015). A Conceptual Simulation Framework for the Performance Assessment of Input Variables in Wafer Fabrication. *Presented in National Conference on Recent Trends and Developments in Statistics* ***(NCRTDS)***, 21st – 23rd February 2015, M.D. University, and Rohtak.
- **Rashmi Singh** and M Mathirajan. (2012). Lot Release Control in Semiconductor Wafer Fabrication. *Presented in Conference on Optimization Modelling and Applications* ***(OPTIMA)***, 29th October-1st November 2012, Delhi University, New Delhi.

Conferences/Seminars/Webinars Conducted

- **International Conference Convener:** Organized **International Conference on Digital Technologies for Business Excellence and Sustainable Development and Creating Viksit Bharat@2047 (ICDTBESDVB 2025)**, **ORAC 0168**, organized on 5th and 6th July 2025 at the Indian Institute of Technology (ISM), Dhanbad.
- **Webinar Coordinator:** Organized webinar session that includes **9 talks from industry & academia experts** in the department as a **webinar coordinator** to prepare the students to deal with the new normal environment created due to COVID-19 outbreak and to strengthen their brain.
- Introduced to the **Design Thinking** Team as a member at IIT (ISM) Dhanbad and successfully completed **Enterprise Design Thinking Practitioner and Enterprise Design Thinking Co-Creator certificates from IBM and visited Eastern Coal mines**.

Initiator & Faculty-in-Charge of Computer/Systems Laboratory

- **Setting up, Indenter & Faculty in Charge of** Computer/Systems Lab in the Department of Management Studies & Industrial Engineering.

Industrial Experience

- **Project Engineer:** Wipro Technologies, Bangalore, from Jan-2010 to Aug-2011.

Professional Training & Workshop

- **Statistics & R Workshop** (15th to 16th) December 2015 at Indian Institute of Management, (**IIMB**), Bangalore.
- Optimization & its Applications (26th to 28th) November 2012 at **Delhi University**, New Delhi.
- Statistical Machine Learning & Game Theory Approaches for Large Scale Data Analysis (9th to 14th) July 2012 at M.S. Ramaiah Institute of Technology (**MSRIT**), Bangalore.
- Mathematical Modelling for Performance Oriented Heuristic Techniques & its Application to Industry (7th to 11th) December 2009 at M.S. Ramaiah Institute of technology (**MSRIT**), Bangalore.

Technical Skills

- Language: C, C++ & Python
- Software skills: Arena, Weka, Excel, & Solver

Administration Responsibilities

- **Professor-In-Charge (PIC) of SAH & EDC,** from 4th April 2025 – 30th June 2026.
- **Executive MBA Co-Coordinator:** October 2024 till now.
- **DUGC Convener,** November 2024 30th June 2026.
- **Senate Member,** 30th June 2023 to 30th June 2024.
- **Chief Warden, Ruby and Rosaline hostels,** Indian Institute of Technology (ISM) Dhanbad, 1st July 2023 to 1st July 2024.
- **Faculty Coordinator for International Relations & Alumni Affairs from March 2022-June 2023.**
- **Hostel Warden,** Ruby and Rosaline hostel, Indian Institute of Technology (ISM) Dhanbad, 1st July 2021 - 1st July 2023.
- **Faculty advisor for international students' mobility from 1st July 2021 to 1st July 2023**
- **Faculty Coordinator for Data & Software Lab from 1st July 2022 to 1st July 2024**
- **Faculty Coordinator for Media & Promotion for Naresh Vashisht Centre for Tinkering & Innovation (NVCTI) from 1st July 2022 to 1st July 2023**
- **Member** of Departmental Faculty Selection Committee **(DFSC), December 2021 to 1st July 2024**
- **Member of** Departmental Undergraduate Committee **(DUGC)**
- Organizing committee member: 41st Convocation, 42nd Convocation & 97th foundation day, 43rd Convocation, 44th Convocation, & 45th Convocation.
- **Training & Placement Faculty Coordinator,** 1st January 2020 – 30th June 2022.
- **Chairperson Admission, IIM Jammu,** from 9th May 2019 – 15th November 2019.

Membership

- Member of the Institute for Operations Research and the Management Sciences **(INFORMS).**

- Member of the Institute of Electrical and Electronics Engineers **(IEEE).**
- Life Member of the Operational Research Society of India **(ORSI).**
- Life Member of Indian Society for Probability & Statistics **(ISPS).**

Awards/Honors/Recognition:

- Received **Women Achievers of the Year 2023 for Empowering Tribal Community** from **Indian Institute of Technology (ISM) Dhanbad** during Foundation Day held on 9th December 2023.
- Received **"Excellent Rating"** for the project entitled "Development of Strategic Interventions through Communication and Science Media for Enforcing Sustainable and Healthy Lifestyles among School Children, Teachers and Women" from the **National Council for Science and Technology Communication (NCSTC), Department of Science & Technology (DST), GoI.**
- Received the **best student paper award** from **operational research society of India** during 52nd, Annual Convention of ORSI & International Conference held at **IIM Ahmedabad** on December, 2019 for the paper entitled "Experimental Investigation for Performance Assessment of Scheduling Policies in Semiconductor Wafer Fabrication – A Simulation Approach", ***International Journal of Advanced Manufacturing Technology (Impact factor: 3.266), 99 (5-8), pp:1503-1520, 2018.***
- **Session Chair** at the *24th Conference of the International Federation of Operations Research Societies* ***(IFORS 2026) 2026***, held from 12th – 17th July Vienna, Austria at University of Vienna, Austria.
- **Session Chair** at the *13th Triennial International Conference of the Association of Asia Pacific Operational Research Societies* **(APORS) 2022**, held from November 9 - 12, 2022 at Eastwood Richmonde Hotel, Quezon City, Manila.
- **Received an ANRF Conference Grant of ₹4.5 lakh as Convener** for organizing the *International Conference on Digital Technologies for Business Excellence and Sustainable Development and Creating Vikshit Bharat @2047 (ICDTBESDVB 2025)*. **Mobilized ₹35 lakh+ in external funding and sponsorship** from organizations including CIL, BCCL, SECL, ECL, NALCO, ANRF, CCL, CMPDI, and CIMFR.
- Received **SERB International Travel Support (ITS)** for presenting a research paper in **IFORS 2023** conference.
- Recipient of MHRD Scholarship for PhD.
- Received **SERB International Travel Support (ITS)** for presenting a research paper in 2014 IEEE conference **(IEEM2014)**.

References for recommendation letter:

- Dr. M. Mathirajan
  Chief Research Scientist (CRS)
  Ex-President of Operations Research Society of India (ORSI)
  Department of Management Studies
  Faculty of Engineering
  Indian Institute of Science, (IISc)
  Bangalore - 560012
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- Prof. U. Dinesh Kumar
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