

Dr. ABHISHEK SHARMA, PhD

Assistant Professor
Department of Industrial and Systems Engineering
Indian Institute of Technology Kharagpur
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Nationality: India



EDUCATION

Indian Institute of Management Rohtak, Haryana, India – 124010

Ph.D. in operations and supply chain management (2015 – 2020),
Degree completed on: 23rd October, 2020
Thesis: “Essays on Supply Chain Coordination with Fairness concerns”
Supervisor(s): Prof. Deepika Jain & Prof. Amol Singh

National Institute of Technology Srinagar, Jammu and Kashmir, India – 190006

Bachelor of Technology (B.Tech.) in Chemical Engineering (2009 – 2013)
CGPA: 7.963/10.00

Senior School Certificate Examination (Class – XII)

Board: CBSE, Delhi (2007 – 2008)
Marks: 89.2%

Secondary School Examination (Class – X)

Board: CBSE, Delhi (2005 – 2006)
Marks: 84.8%

TEACHING AND RESEARCH INTERESTS

Teaching Interests

Operations research, operations management, quantitative methods, supply chain management and logistics, production planning and inventory control, statistics for management, optimization and heuristic methods, service operations management, Software/Tools – MATLAB, CPLEX, R, Python, SPSS, E-Views

Research Interests

Behavioral operations management, supply chain coordination under newsvendor framework, supply contracts, location-inventory problems, closed-loop supply chain, sustainability, multi-channel supply chain, agri-food supply chain, supply uncertainty, game theory

PUBLICATIONS

Peer-Reviewed Journal Articles

Sharma, A., & Singh, S. (2022). Coordinating socially responsible supply chain with fairness via simple wholesale price contract. *Journal of Cleaner Production*, 376, 134131. <https://doi.org/10.1016/j.jclepro.2022.134131> [(ABDC- A), ABS-2, CS: 15.8, IF: 11.072, SCIE Indexed, Scopus]

Sharma, A., Dwivedi, G., & Singh, A. (2019). Game-theoretic analysis of a two-echelon supply chain with option contract under fairness concerns. *Computers & Industrial Engineering*, 137, 106096. <https://doi.org/10.1016/j.cie.2019.106096> [(ABDC- A), ABS-2, CS: 9.7, IF: 7.18, SCIE Indexed, Scopus]

Sharma, A., & Jain, D. (2019). A game theoretic analysis of dual-channel supply chain with Nash bargaining fairness concern. *Journal of Business & Industrial Marketing*, 35(2), 244-259. <https://doi.org/10.1108/JBIM-11-2018-0347> [(ABDC- A), ABS-2, CS: 5.0, IF: 3.879, SJR: 0.77, SSCI Indexed, Scopus]

Sharma, A., & Jain, D. (2021). Game-Theoretic Analysis of Green Supply Chain Under Cost-Sharing Contract with Fairness Concerns. *International Game Theory Review*, 23(02), 2050017. <https://doi.org/10.1142/S0219198920500176> [(ABDC- B), ABS-1, CS: 0.9, SJR: 0.238, ESCI Indexed, Scopus]

Sharma, A. (2019). Game-theoretic analysis of pricing models in a dyadic supply chain with fairness concerns. *International Journal of Strategic Decision Sciences*, 10(2), 1-24. 10.4018/IJSDS.2019040101 [(ABDC- B), ABS-1]

Chauhan, C., Sharma, A., & Singh, A. (2021). A SAP-LAP linkages framework for integrating Industry 4.0 and circular economy. *Benchmarking: An International Journal*, 28(5), 1638-1664. <https://doi.org/10.1108/BIJ-10-2018-0310> [(ABDC- B), ABS-1, CS: 5.0, SJR: 0.593, Scopus]

Sharma, A., & Nandi, S. (2018). A review of behavioral decision making in the newsvendor problem. *Operations and Supply Chain Management: An International Journal*, 11(4), 200-213. <http://doi.org/10.31387/oscm0350214> [(ABDC- C), CS: 1.3 Scopus]

Singh, S., Sharma, A., & Nandi, S. (2019). Using transcendental phenomenology to explore the social jugaads of transacting money post demonetisation in India. *International Journal of Indian Culture and Business Management*, 18(4), 442-457. <https://dx.doi.org/10.1504/IJICBM.2019.10017785> [(ABDC- C), ABS-1]

Conference Proceedings

Niture, V.D., & Sharma, A. (2023). Fresh Produce Supply Chain Coordination with Option Contract under Uncertainty: Analyzing the Decision Strategies of Supplier and Buyer. *36th Annual Australian & New Zealand Academy of Management (ANZAM) Conference*, Wellington, New Zealand.

Conference Presentations

Sharma, A., & Dwivedi, G. (2019). Analyzing retailer-led green supply chain considering fairness concerns. *26th Annual EuROMA 2019 Conference*, Helsinki, Finland.

WORK EXPERIENCE

Assistant Professor,

Department of Industrial & Systems Engineering,

Indian Institute of Technology Kharagpur (27th December, 2021 – Present)

Courses taught: Operations Research, Optimization and Heuristic Methods, Management of Inventory Systems, Production Planning and Control, Supply Chain Analytics, Software/Tools – MATLAB, CPLEX, R, Python.

Level: UG/PG/B.Tech./M.Tech.

Lecturer,

Operations and Supply Chain Management,

IMT Business School Dubai, UAE (15th August, 2021 – 23rd December, 2021)

Courses taught: Service Operations Management, Business Process Management

Level: UG/PG/BBA/MBA

Young Faculty Associate,

School of Management and Entrepreneurship,

Indian Institute of Technology Jodhpur (03rd June, 2020 – 02nd June, 2021)

Courses taught: Statistics for Management, Advanced Data Analysis for Management, Project Management

Level: UG/PG/BBA/MBA

Graduate Trainee (Ammonia),

Tata Chemicals Ltd.,

Fertilizer's Division, Babrala, Uttar Pradesh, India (14th July 2014 – 22nd May 2015)

ADMINISTRATIVE EXPERIENCE

Faculty Advisor (UG 2022 Batch) (Aug, 2022 – Present)

Time Table Schedule In-charge (Jan 2022 – Present)

ISE Newsletter In-charge (July 2023 – Present)

Department of Industrial & Systems Engineering,

Indian Institute of Technology Kharagpur

MANAGEMENT DEVELOPMENT PROGRAMS/ INDUSTRIAL TRAINING/ WORKSHOPS/ CONFERENCE ORGANIZING

Principal Convener

Course title: “Three-Day Online Short Term Course on Supply Chain Analytics”

September 22 – 24, 2023

Department of Industrial & Systems Engineering,

Indian Institute of Technology Kharagpur

Co-Convener

Workshop title: “Project Based Training Workshop for the Working Professionals of Aarti Steel Limited’ on Management of Inventory Systems”

July – August, 2022

Department of Industrial & Systems Engineering,

Indian Institute of Technology Kharagpur

Organizing Secretary**Session Co-chair**

Conference title: “International Conference on Safety, Health and Analytics-Driven Governance for Sustainable Development (SHADG 2024)”

January 29th – 30th, 2024

The Centre of Excellence in Safety Engineering and Analytics (CoE-SEA),
Indian Institute of Technology Kharagpur

Organizing Secretary**Session Co-chair**

Conference title: “International Conference on Industrial Engineering and Analytics (ICONIEA 2024)”

February 16th – 18th, 2024

Department of Industrial & Systems Engineering,
Indian Institute of Technology Kharagpur

ACADEMIC AND VOLUNTEER SERVICE**Reviewer**

European Journal of Operational Research (Elsevier, ABDC: A*)
Journal of Operational Research Society (Taylor and Francis, ABDC: A)
International Journal of Production Research (Taylor and Francis, ABDC: A)
Annals of Operations Research (Springer, ABDC: A)
Computers and Industrial Engineering Journal (Elsevier, ABDC: A)
International Transactions in Operational Research (Wiley, ABDC: B)
International Journal of Disaster Risk Reduction
Journal of Cleaner Production (Elsevier, ABDC: A)
Benchmarking: An International Journal (Emerald, ABDC: B)
International Journal of Operational Research (ABDC: C)
Mathematical Problems in Engineering

Guest/Invited Lectures**Invited Lecture**

Lecture title: “Integrating Industry 4.0 and Supply Chain Management Practices”
O.P. Jindal Global University, Sonapat, Haryana, India (2020 – 2021)

Invited Lecture

Lecture title: “Integrating Industry 4.0 and Supply Chain Management Practices”
FORE School of Management, New Delhi, India (2020 – 2021)

Invited Lecture

Lecture title: “Introduction to Basics of Probability and Statistics”
Course title: “Econometric Analysis”
Department of Industrial & Systems Engineering,
Indian Institute of Technology Kharagpur (2023-24)

HONORS/AWARDS

Recognized reviewer in the list of 2018 reviewers for Benchmarking: An International Journal (Emerald, ABDC: B).

Secured All India Rank 320 in GATE-2013 in Chemical Engineering area and qualified for M.Tech. in Chemical Engineering at Indian Institute of Technology Delhi.

Farooq Abdullah Memorial Award for school topper in class 12th by The Hermein Education Society Delhi (Regd.).

Finisher of Airtel Delhi Half Marathon 2015 (21.09 km) in 01hr: 50min: 46sec time.

PROFESSIONAL MEMBERSHIPS

Australia & New Zealand Academy of Management (2023-24)
Institute of Industrial & Systems Engineers (2023-24)

REFERENCES

Prof. Amol Singh,
Thesis Co-Supervisor
Associate Professor
Indian Institute of Management Rohtak
Email: amol.singh@iimrohtak.ac.in
Phone: +91-97292 02567

Prof. Gourav Dwivedi,
Former Thesis Co-Supervisor
Assistant Professor
Department of Management Studies
Indian Institute of Technology Delhi
Email: gourav@dms.iitd.ac.in
Phone: +91-99352 78275

Prof. Manas Tripathi,
Thesis Advisory Committee Member
Assistant Professor
Indian Institute of Management Rohtak
Email: manas.tripathi@iimrohtak.ac.in
Phone: +91-91406 67286

DECLARATION

I hereby declare that the above information is correct and complete to the best of my knowledge and belief.

Place: Kharagpur

Name: Dr. Abhishek Sharma

Date: January 30th, 2024