

CURRICULUM VITAE

Mukesh Kumar, Ph.D. (2024)

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EDUCATION

CGPA

Ph.D. Mechanical Engineering Department	National Institute of Technology Patna	2024	8.6
MTech. Manufacturing Technology	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab	2016-2018	8.2
B. Tech, Mechanical Engineering	Corporate institute of research and Technology, Bhopal, Madhya Pradesh	2012-2016	8.53

DISSERTATION

Sustainable Performance Evaluation of Perishable Food Supply Chain: Case from Indian Dairy Industry

Adviser(s): Dr. Vikas Kumar Choubey

RESEARCH EXPERIENCE

Research Fellow 2019-2024

Mechanical Engineering, National Institute of Technology Patna, Patna, Bihar

- Evaluation of potential environmental impact of dairy processing industry using LCA.
- Identification and analysis of sustainable key performance indicators for dairy industry
- Developing sustainable evaluation framework for dairy industry.

- Exploring and analysis of circular economy adoption challenges in agri-food supply chain for sustainable consumption and production.
- Exploring enablers to pandemic preparedness for agri-food supply chain

TEACHING EXPERIENCE

Teaching Assistant, Dr. B.R. Ambedkar National Institute of Technology, 2017-2018
 Jalandhar, Punjab

Lecturer, Ganga memorial college of polytechnic, Hernaut, Nalanda
 2018-2019

TECHNICAL SKILLS

System modelling and simulation using Flexsim, Arena and Simulink

Structural equation modelling using AMOS, SmartPLS

Statistical analysis using IBM-SPSS

Decision making using various MCDM techniques

TRAINING AND CERTIFICATION

Attended short term course Dr. B.R. Ambedkar NIT Jalandhar, Punjab , 2017

Logistics and supply chain management

Three Time GATE qualified (2016, 2017, & 2018)

LANGUAGES AND SOFTWARE

Flex-sim, MS Office, MATLAB basics, IBM-SPSS, IBM-AMOS, SmartPLS, SimaPro for LCA Modeling

RESEARCH INTEREST

Sustainable food supply chain; Circular economy; Performance assessment; MCDM techniques; Sustainable development goal; Agri-food, Digital technologies

CONFERENCE PRESENTATIONS

A Review on Life Cycle Assessment of Various Dairy Products; presented in CIMS 2020, at NIT Jalandhar

TEACHING INTEREST

Operations management, Operations research, Logistics & Supply chain management; Statistics; Project management; Production Planning and Control; Material management

PUBLICATIONS

Published articles

1. **Kumar, M.**, Raut, R. D., Mangla, S. K., Chowdhury, S., & Choubey, V. K. (2024). Moderating ESG compliance between industry 4.0 and green practices with green servitization: Examining its impact on green supply chain performance. *Technovation*, 129, 102898.
2. **Kumar, M.**, Raut, R. D., Mangla, S. K., Moizer, J., & Lean, J. (2024). Big data driven supply chain innovative capability for sustainable competitive advantage in the food supply chain: Resource-based view perspective. *Business Strategy and the Environment*.
3. Vhatkar, M. S., Raut, R. D., Gokhale, R., **Kumar, M.**, Akarte, M., & Ghoshal, S. (2024). Leveraging digital technology in retailing business: Unboxing synergy between omnichannel retail adoption and sustainable retail performance. *Journal of Retailing and Consumer Services*, 81, 104047.
4. Tetteh, M. G., Gupta, S., **Kumar, M.**, Trollman, H., Salonitis, K., & Jagtap, S. (2024). Pharma 4.0: A deep dive top management commitment to successful Lean 4.0 implementation in Ghanaian pharma manufacturing sector. *Heliyon*, 10(17).
5. Dhingra, S., Raut, R., **Kumar, M.**, & Naik, B. K. R. (2024). Factors impacting Indian healthcare supply chain performance and influence in the public and private sector: the mediating role of blockchain technology adoption. *Benchmarking: An International Journal*.
6. Saha, A., Raut, R. D., **Kumar, M.**, Paul, S. K., & Cheikhrouhou, N. (2024). The intention of adopting blockchain technology in agri-food supply chains: evidence from an Indian economy. *Journal of Modelling in Management*.

7. Nayal, K., Raut, R. D., **Kumar, M.**, Paul, S. K., & Narkhede, B. E. (2024). Role of Artificial Intelligence Capability in the Interrelation Between Manufacturing Strategies and Operational Resilience. *Global Journal of Flexible Systems Management*, 1-26.
8. Saha, A., Raut, R. D., & **Kumar, M.** (2024). Leveraging blockchain technology to combat food fraud in the agri-food supply chain. *International Journal of Food Science & Technology*.
9. **Kumar, M.**; Choubey, V.K. Sustainable Performance Assessment towards Sustainable Consumption and Production: Evidence from the Indian Dairy Industry. *Sustainability* 2023, 15, 11555. [https://doi.org/ 10.3390/su151511555](https://doi.org/10.3390/su151511555)
10. **Kumar, M.**, Raut, R.D., Gunasekaran, A., Venkateshwarlu, M. and Choubey, V.K. (2023), “Developing Supply Chain Capabilities Through Digitalization and Viability for Controlling the Ripple Effect”, *IEEE Transactions on Engineering Management*, pp. 1–17, doi: [10.1109/tem.2022.3233860](https://doi.org/10.1109/tem.2022.3233860).
11. **Kumar, M.**, Choubey, V.K., Raut, R.D. and Jagtap, S. (2023), “Enablers to achieve zero hunger through IoT and blockchain technology and transform the green food supply chain systems”, *Journal of Cleaner Production*, Vol. 405, p. 136894, doi: [10.1016/j.jclepro.2023.136894](https://doi.org/10.1016/j.jclepro.2023.136894).
12. Saha, A., Raut, R., & **Kumar, M.** (2023). Digital technology adoption challenges in the agrifood supply chain from the perspective of attaining sustainable development goals. *The International Journal of Logistics Management*, (ahead-of-print).
13. Mishra, R., Raut, R. D., **Kumar, M.**, Naik, B. K. R., & Luthra, S. (2023). Renewable energy technology adoption in building a sustainable circular supply chain and managing renewable energy-related risk. *Annals of Operations Research*, 1-26.
14. Nayal, K., Raut, R. D., Mangla, S. K., **Kumar, M.**, Tuček, D., & Gavurova, B. (2023). Achieving market performance via industry 4.0 enabled dynamic marketing capability, sustainable human resource management, and circular product design. *Industrial Marketing Management*, 115, 86-98.
15. Mishra, R., Naik, B.K.R., Raut, R.D. and **Kumar, M.** (2022), “Internet of Things (IoT) adoption challenges in renewable energy: A case study from a developing economy”, *Journal of Cleaner Production*, Vol. 371, doi: [10.1016/j.jclepro.2022.133595](https://doi.org/10.1016/j.jclepro.2022.133595)
16. **Kumar, M.**, Raut, R.D., Jagtap, S. and Choubey, V.K. (2022), “Circular economy adoption challenges in the food supply chain for sustainable development”, *Business Strategy and the Environment*, doi: [10.1002/bse.3191](https://doi.org/10.1002/bse.3191).
17. **Kumar, M.**, Raut, R.D., Mangla, S.K., Ferraris, A. and Choubey, V.K. (2022), “The adoption of artificial intelligence powered workforce management for effective revenue growth of micro, small, and medium scale enterprises (MSMEs)”, *Production Planning and Control*, doi: [10.1080/09537287.2022.2131620](https://doi.org/10.1080/09537287.2022.2131620).
18. **Kumar, M.**, Raut, R.D., Sharma, M., Choubey, V.K. and Paul, S.K. (2022), “Enablers for resilience and pandemic preparedness in food supply chain”, *Operations Management Research*, Vol. 15 No. 3–4, pp. 1198–1223, doi: [10.1007/s12063-022-00272-w](https://doi.org/10.1007/s12063-022-00272-w).
19. **Kumar, M.**, Sharma, M., Raut, R.D., Mangla, S.K. and Choubey, V.K. (2022), “Performance assessment of circular driven sustainable agri-food supply chain towards

- achieving sustainable consumption and production”, *Journal of Cleaner Production*, Vol. 372, doi: [10.1016/j.jclepro.2022.133698](https://doi.org/10.1016/j.jclepro.2022.133698).
20. **Kumar, M.** and Choubey, V.K. (2022), “Analysis of Sustainable Performance Indicators in Dairy Supply Chain using Fuzzy -DEMATEL”, *International Journal of Logistics Systems and Management*, Vol. 1 No. 1, p. 1, doi: [10.1504/ijlsm.2022.10046116](https://doi.org/10.1504/ijlsm.2022.10046116).
 21. **Kumar, M.** and Choubey, V.K. (2022), “A Review on Life Cycle Assessment of Various Dairy Products”, *Lecture Notes in Mechanical Engineering*, pp. 75–89, doi: [10.1007/978981-16-7059-6_8](https://doi.org/10.1007/978981-16-7059-6_8).
 22. **Kumar, M.,** Kumar Choubey, V., Deepak, A., Gedam, V. V. and Raut, R.D. (2021), “Life cycle assessment (LCA) of dairy processing industry: A case study of North India”, *Journal of Cleaner Production*, Elsevier Ltd, Vol. 326, doi: [10.1016/j.jclepro.2021.129331](https://doi.org/10.1016/j.jclepro.2021.129331).
 23. **Kumar, M.** and Choubey, V.K. (2021), “Modelling the Interaction Among the Key Performance Indicators of Sustainable Supply Chain in Perspective of Perishable Food”, *International Journal of Logistics Systems and Management*, Vol. 1 No. 1, p. 1, doi: [10.1504/ijlsm.2021.10039305](https://doi.org/10.1504/ijlsm.2021.10039305).
 24. **Kumar, M.** and Choubey, V.K. (2021), “Modeling the Causes of Post-harvest Loss in the Agri-Food Supply Chain to Achieve Sustainable Development Goals: An ISM Approach”, *Environmental Footprints and Eco-Design of Products and Processes*, pp. 133–149, doi: [10.1007/978-981-16-3791-9_8](https://doi.org/10.1007/978-981-16-3791-9_8).
 25. **Kumar, M.,** Mor, R.S., Singh, S. and Choubey, V.K. (2020), “Sustainability and OEE Gains in Manufacturing Operations Through TPM”, *Circular Economy for the Management of Operations*, CRC Press, First edition. | Boca Raton, FL : CRC Press, 2021. | Series: Mathematical engineering, manufacturing, and management sciences, pp. 173–185, doi: [10.1201/9781003002482-8](https://doi.org/10.1201/9781003002482-8).

REFERENCES

<p>Dr. Sandeep Jagtap (Mentor) Senior Lecturer Logistics and Supply Chain Management, Division of Engineering Logistics, Lund University, Sweden Sandeep.Jagtap@tlog.lth.se</p>	<p>Dr. Rakesh D Raut (Mentor) Associate Professor Operations and Supply Chain Management Room No.515, ALB building, 5th Floor, Indian Institute of Management Mumbai, India rraut@nitie.ac.in +91-9372449816</p>
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DECLARATION

If given a chance to serve your Journal as editorial member will ensure to fulfill all the commitments and live up to the editors' expectation. I solemnly declare that all the above information furnished above is true to the best of my knowledge.

10/22/2024

✕ Mukesh kumar

Mukesh Kumar

Ph.D. (MED, NIT-Patna)

Signed by: 27372682-0be4-4490-858c-5fa81b7d66cf

Mukesh Kumar

Place: Patna, Bihar (India)

22-10-2024