

RAVI KISHOR RANJAN



Assistant Professor (Operations Management) –

G L Bajaj Institute of Management & Research (PGDM Institute), Greater Noida.

&

Doctoral Scholar (Ph.D.) - Sustainable Operations, Digital Supply Chain and Hydrogen

Economy - Department of Management Sciences –

Indian Institute of Technology Kanpur.

Teach courses on Operations Management, Operations Research, Optimization & Mathematical Modeling, Production, Planning & Control, Supply Chain & Analytics.

- Former Senior Associate - Production & Operations Management - I.I.M. Ahmedabad
- Former Academic & Research Associate- Operation Management - I.I.M. Indore.
- Former Academic & Research Associate (Operations) - Great Lakes Institute of Management, Gurgaon
- Former Faculty - Arya College of Engineering & Jaipur Engineering College, Jaipur.
- Former Assistant Engineer – Alfa Therm Limited, Sonipat, Haryana, Delhi NCR.
- Overall Experience - 12 years
- Academic Qualification: M. Tech, B.Tech, Doctoral Scholar (PhD pursuing) – IIT Kanpur.
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Synopsis:

- A dynamic academic professional and a research scholar pursuing his Ph.D. from the Department of Management Sciences, I.I.T. Kanpur, with a Master's and Bachelor's in Electrical Engineering and practical management skills with the ability to meet deadlines and work under pressure, and excellent presentations skills with multifaceted developmental qualities.
- An overall working experience ranging in the fields of Engineering, Operations Research, Operations Management, Operations Strategy and bottlenecks, Climate change economics, and policy, data analysis methods, and skill development capable of teaching, conducting, and coordinating capacity building and skill enhancement programs with simulations, power-point presentations, slides, etc.

Teaching Statement:

I am writing to express my interest in the teaching and academic faculty or Junior faculty position in the area of Operations Management at SPARSH Global Business School, Greater Noida, India. As an educator in the field of Operations Management, I am committed to providing students with a comprehensive understanding of the fundamental principles and practices that drive efficiency, productivity, and innovation in business operations and supply chain management.

I believe in fostering an engaging, inclusive, and dynamic learning environment where students are encouraged to think critically, ask questions, and engage deeply with the material. My teaching philosophy is centered on student-centered learning, experiential learning, and active engagement through case studies, simulation practices, and hands-on learning, which fosters critical thinking, practical application, and lifelong learning skills that prepare students for success in dynamic and competitive environments.

I try to focus on the three basic pedagogical requirements to understand the course precisely. These are:

- 1) Creating an Engaging Learning Environment
- 2) Emphasizing Practical Application
- 3) Cultivating Analytical and Problem-Solving Skills through case studies and simulation.

Teaching Tools & Methodology:

- 1) I use technology-driven simulations using AI-powered platforms, where students make strategic decisions in dynamic, risk-free environments.
- 2) Gamification, through competitive case study challenges and virtual internships, enhances engagement and practical problem-solving.

- 3) Besides my teaching responsibilities, I have been actively involved in relevant academic research, publications, and community involvement. I am particularly passionate about operations and supply chain analytics, and I would welcome the opportunity to contribute to the ongoing academic work at the institute.

I am excited about possibly joining your team and contributing to your student's academic and personal growth. I am confident that my background and passion for teaching and research make me a strong fit for this position.

Additionally, I have comprehensive experience arranging workshops, national and international conferences, technical talks, expert talks, industrial conclaves, and seminars. I have actively participated in all corporate briefings, discussions, and training at the corporate level conducted at I.I.M.s and other institutes.

Scholastics:

Research Scholar (Ph.D.)-Department of Management Sciences - I.I.T. Kanpur.

M. Tech - Electrical Power System (2016-19) - AIET Jaipur– RTU Kota

B. Tech - Electrical Engineering (2007-11) - AIET Jaipur– RTU Kota.

Latest Engagements:

- 1) Conducted a workshop on data analysis techniques using SPSS for 1st year PGDM students in April.
- 2) I also conducted another data analysis workshop using R programming.
- 3) Conducted an Expert Talk Session on “Research Methodology in Business” from a business management perspective for third-year engineering students at GLBITM. I was invited to conduct the expert session held on 16-04-2024.
- 4) Organized an Expert Talk Session on Research Methodology for Business for Term 3 students conducted by Professor of O.P. Jindal Global Business School on 27th April 2024.
- 5) Organized an Industry Expert Talk Session for PGDM Term 2 students as part of the POM course, providing industry exposure by the MD of VDT Pipeline Integrity Solutions Pvt. Ltd, Noida.
- 6) One of the prime organizers of the Operations & Supply Chain Conclave, Winter 2025, on the topic “Transforming Operations and Supply Chain Excellence through

NEXT Generation Analytics for Sustainable & Self-Reliant Viksit Bharat @ 2047 on
22nd Feb. 2025 at GL Bajaj Institute of Management and Research. Greater Noida.

Work Experience:

Overall Academic (Teaching & Research) Experience: 12 years.

- 1) Presently associated as Assistant Professor - G L Bajaj Institute of Management & Research, PGDM Institute Greater Noida, India, since 12th November 2022.
- 2) Senior Academic Associate at Great Lakes Institute of Management, Gurgaon, from 19-07-2021 to 31st October 2022.
- 3) Previously worked as a Senior Academic Associate at IIM Ahmedabad in the Production & Quantitative Methods Area from 19-06-2020 to 13-06-2021.
- 4) Worked as an Academic Associate in IIM Indore in Operations Management from 27-02-2018 to 13-06-2020.
- 5) Worked as Faculty in the Electrical Engineering Department at ACEIT Jaipur from 11-01-2016 to 26-02-2018.
- 6) Worked as a Junior Lecturer in JIET and S.I.T. Jaipur from 11-0-2012 to 30-06-2014.
- 7) Worked as a responsible member and main Coordinator in the N.B.A. Accreditation work in ACEIT and JIET Jaipur from 11-01-2016 to 26-02-2018.
- 8) Subjects taught and assisted: Research Methodology in Business, Operation Research, Operation Management, Quantitative Methods for Decision Making, Microeconomics, Economics of Business Policy, and Statistics for Decision making.

Responsibilities held & Performed:

- 1) Assisted in the course Quantitative Methods of P.G.P. students under Prof Arnab Laha- I.I.M. Ahmedabad.
- 2) Assisted in I.P.M. and Executive Education batch courses of Mathematical Modeling under Prof. Sachin Jaiswal – IIM Ahmedabad.
- 3) Assisted in the O.M. courses under Prof. Sanjay Chaudhary and Prof. Omkar Desai at I.I.M. Indore.
- 4) Study and research techniques on industry operations and proper management for better and improved productivity by working over the production facilities.

- 5) Knowledge of optimization skills with advanced mathematical modeling, AMPL programming, and Python programming skills.
- 6) Expertise in algorithms based on advanced mathematical concepts of Hilbert transform, wavelet transform, and Stock-well transforms.
- 7) Well-versed with the basics and advanced concepts of electrical Engineering, Power systems, Artificial Intelligence, Operation Research, operation management, etc.
- 8) Evaluation of P.G.P., I.P.M., G.M.P., Executive P.G.P., and M.D.P. answer sheets and doubt-clearing, and evaluation and marking scheme of the papers.
- 9) Evaluation of class participation by the students of P.G.P., I.P.M., G.M.P., Executive PGP and M.D.P. as per the load allotted.
- 10) Providing tutorial classes to the students as instructed by the faculty.
- 11) Maintaining coordination with the academic offices P.G.P., PGP-FABM, PGPM, F.P.M., F.D.P., EEP, and other support offices. Coordination with the Research & Publication offices, case units, etc., for research output dissemination, registration of teaching notes, cases, exercises, etc.

Scientific Projects (undertaken & ongoing):

- 1) Presently working on Call for Proposals scheme guidelines for funding testing infrastructure facilities and institutional support for developing standards and regulatory frameworks under the National Green Hydrogen Mission in line with the National Institute of Solar Energy, NISE Gurgaon. The proposal is being developed to transform the traditional hydrogen supply chain network into a Digital and intelligent hydrogen distribution supply chain network to optimize transportation routes and minimize energy losses during hydrogen transportation. The project is being carried out under the supervision of the faculty and my PhD supervisor, IIT Kanpur.
- 2) Worked with the Ghaziabad Management Association (GMA) and developed a case study on the sustainability project focusing on the industries' increasing environmental, social, and economic challenges. The objective is to identify current sustainability practices among industries in Ghaziabad in alignment with SDG 13 and 17, examining the key issues and challenges faced by these industries in implementing sustainable practices, assessing the impact of these practices on the environment, society, and the industries themselves, and to provide actionable recommendations for enhancing sustainability in Ghaziabad's industrial sector. The outcome will be focused on delivering the Ghaziabad Management Association and its member industries with crucial insights into sustainability practices and challenges.

Case Study ongoing and published:

- 1) Presented a case study titled “Everything is in the Name” of the chain of Chai Bar outlets running in Indore and nationwide on operations in the National Workshop on Case Writing held on 12-14 December at SVM, Indore.
Case Published in Management Effigy – SVIM – Volume 10, Issue 2, July-Dec 2019, ISSN2249-1643.
- 2) Working on the case development titled “Sustainable Business Excellence Through Lean Process Improvement: The Case Study on the Steel Appliances Industry.
- 3) Working on another case development titled Productivity Improvement Using Operation Analytics in MSME.

Case Study under development & due for publication:

- 1) Analyzing the impact of demand uncertainty on the efficiency and resilience of the Hydrogen supply chain – A Case Study
- 2) Barriers and Enablers of Hydrogen Supply Chain in India – A Case Study
- 3) What operational challenges are Zepto facing, and how can they be mitigated?
- 4) Has climate finance played an effective role in combating climate change? – A Case Study
- 5) Glades County Sanitary District, Florida – Managing population growth and industrial development – A Case Study
- 6) The Collapse of Enron Corporation: A Case Study
- 7) Sustainability Practices and Challenges in the Ghaziabad Industrial Area - A Case Study
- 8) Driving e-commerce to a digitized supply chain network.
- 9) Cost and Benefit Analysis for the Development of Intelligent Supply Chains in India.

Professional Affiliations, Awards, Rewards, & Recognitions:

- 1) Professional membership in the Productions & Operations Management Society (POMS) – Membership ID - 39062.
- 2) Professional membership in the International Association of Engineers (IAENG), Membership ID- 277547
- 3) Membership in the Australian Society for Operations Research, ASOR., Membership ID - 198.
- 4) Awarded the certificate of achievement for completing “Build a Face Recognition Application using Python” as part of the AI for India event by IIT Madras.

Software Proficiency & Digital Fluency:

- 1) Well-equipped with knowledge of SPSS data analysis software, R programming, AMPL programming, and Arena Simulation software.
- 2) Highly proficient in working with Moodle and Olympus – the learning management software.
- 3) Highly proficient in working with MS Excel and other Microsoft applications.

Personal Skills & Organizational Behavior:

- 1) Excellent interactive and interpersonal skills with strong managerial and management capabilities.
- 2) Experience interacting with eminent and senior academic, corporate, and administrative personalities.
- 3) Skilled in research-oriented and analytical environments.
- 4) Possesses highly competitive planning, organizing, and development skills to manage complex operations with utmost responsibilities within deadlines.
- 5) Excellent communication and presentation skills.

Administrative Experience:

- 1) While teaching in engineering colleges earlier, I worked as an N.B.A. coordinator in the J.E.C. group and Arya College of Engineering & I.T. Jaipur
- 2) Worked in Alumni Affairs as a responsible member in arranging the alum meeting, coordinating alums and students currently studying, organizing motivational talks and seminars, fundraising from the alums, and utilizing students' activities in various academic and internship opportunities.
- 3) Performed the responsibility of Student Mentorship for all their academic activities and necessary information related to Training and placements and company visits to the campus.
- 4) Responsible for mentoring students for their interviews and group discussions needed for their placements.

Papers Presented & Published:

- 1) Presented a paper at the National Conference entitled “Advanced Trends in Engineering & Technology– ICATET 2018,” which was held at Aceit Jaipur, and a report titled “Performance Evaluation of Thyristor Controlled Series Capacitor Based Controlled Power System Damping.” The article was published in the journal named "International Journal on Future Evolution in Computer Science & Engineering journal with ISSN: 2454-4248, 200-204, Volume 4, Issue 1. Available @ <http://www.ijfrcsce.org> (ICATET 2018).
- 2) Presented a paper at the “IEEE Conference on Computing, Power & Communication Technologies - Gucon 2019, " conducted in September 2019 and held at Radisson Blu, Greater Noida. The paper titled “Algorithm for the Detection of Power System Faults in the Presence of Thyristor Controlled Reactor using Hilbert Huang Transform and Ruled Decision Tree. IEEE Conference Record No. – 47222, Paper Id- 293, Available @ IEEE Xplore Digital Library.
- 3) Presented a case study on “Chai Sutta Bar Outlets” running in Indore and nationwide on their operations in the National Workshop on case writing held on 12-14 December at SVM, Indore. Case Published in Management Effigy – SVIM – Volume10, Issue 2, July-Dec 2019, ISSN2249-1643.

Working Papers:

- 1) Determinants of Environmental Performance: Integrating Lean Management, Supply Management and Green Practices in Indian Manufacturing Organizations
- 2) Challenges and opportunities with digital supply chains in the context of green hydrogen as a liquid fuel – conference paper to be presented in the upcoming POMS conference.
- 3) Towards Hydrogen Economy in India: Enablers and Barriers – review paper to be presented in upcoming conferences.

Book Chapters:

- 1) A book chapter co-authored by me (Chapter 14) has been published in the newly launched book “Artificial Intelligence Based Energy Management Systems for Smart Microgrids.” The E-book (CRC Press – Taylor & Francis Group) is available online. Description: The Chapter entitled “A Voltage-Based Algorithm Using Gabor Wigner Distribution and Rule-Based Decision Tree for Detecting Transmission Line Faults in Smart Grid Environment.”
- 2) The proposed abstract for the chapter entitled “A Current-Based Algorithm Using Gabor Wigner Distribution and Rule-Based Decision Tree for the Detection of Transmission

Line Faults in Smart Grid Environment” is provisionally accepted for the edited tentative book titled “Planning of Hybrid Renewable Energy Systems and Microgrid, control and Optimization will be published by Springer Nature.

Authors: Rajendra Mahla, OmPrakash Mahla, Baseem Khan, Ravi Kishor Ranjan.

- 3) The paper titled “Variability of Renewable Energy Generation and Flexibility Initiatives: Indian Scenario” and co-authored by Ravi Kishor Ranjan, as the second author, has been accepted for inclusion as an entire chapter in the Book Titled “Renewable Energy Integration in Utility Grids: Advances in Power Quality, Protection, Stability, and Flexibility” edited by Om Prakash Mahela, Baseem Khan, Sanjeevikumar Padmanaban. The book is scheduled to be published by Academic Press, Elsevier (Scopus indexed).

Articles Published in Business World Magazines:

- 1) Published an article on the topic “Digital Ecosystem for Agricultural Practices - Towards a Data-Driven Farming” in the DATAQUEST MAGAZINE. Available@ DQINDIAONLINE. <https://www.dqindia.com/digital-ecosystems-for-agriculture-practices-towards-a-data-driven-farming/>
- 2) Published an article on “Electric Vehicles Charging Infrastructure: Challenges & Solutions in the BUSINESS AUTO WORLD MAGAZINE. Available @ BW AUTO WORLD. <http://bwautoworld.businessworld.in/article/Electric-Vehicles-Charging-Infrastructure-Challenge-Solutions/18-07-2022-437545/>

Conferences, Workshops, and Seminars Attended (in order of occurrence):

- 1) I worked as a responsible group committee member, “Scheduling and preparing conference proceedings” for the NASMEI summer marketing conference in 2019.
- 2) Proactively voluntarily coordinated in the Industry Meet – 2018 under the mentorship of Prof Abhishek Mishra – Chairman of the Industry Interface Office of I.I.M. Indore.
- 3) Participated in the Indore Management Association (I.M.A.) International Management Conclave 2019 on the "India 4.0 – Rethink, Redesign, and Rebuild "theme, held in Indore on Jan 18-19, 2019.
- 4) I participated in the webinar “Representation and topology-based clustering methods for spatial data analysis and visualization," organized by IEEE Hyderabad Section, C.S. chapter.
- 5) Participated in the “Artificial Intelligence and Machine Learning for Cyber Security" webinar organized by IEEE Hyderabad Section, chapter 10-8-20.
- 6) Participated in the “Personal Branding” webinar conducted by IEEE India Council Student

Coordination in collaboration with IEEE India Council Young Professionals 05-07-20.

- 7) Participated in the “IEEE Resources Collabraterc & VTools” webinar at the IEEE India Council Student Coordination Team organized on 12-7-20.
- 8) Participated in the AI and Data Science Webinar IoT and Nano Science organized by the GSSSIETWIEEE Student Branch, with the IEEE Bangalore Section and IEEE CAS Bangalore Chapter from 10-6-20 to 12-06-20.
- 9) Participated in the A.I. and Data Science Webinar organized by IEEE Circuits and Systems (C.A.S.) Society Bangalore Chapter, in association with IEEE Bangalore, held on 30-05-20.
- 10) Participated in the IEEE Bangalore Section Researchers Forum Online Workshop on “Reference Management Tools for Research Articles and Thesis Writing.”
- 11) Participated in the F.D.P. on "Virtual Instrumentation through I.C.T." by I.I.T. Bombay.
- 12) Participated in the F.D.P. program on "Signals & Systems" by ISTE and I.I.T. Kharagpur.
- 13) Participated in the Faculty Induction Training Program conducted by NITTTR, Chandigarh.
- 14) Participated in the National Conference on the "Advancement in Automobile Engineering." held at KITE on 16th February 2011 and presented a paper on “Traction System and Vehicle Dynamics.”
- 15) Participated in the Webinar on “Getting Job Ready for the post-COVID Era McGraw Hill Company.
- 16) One of the prime organizers of the third edition of the Research Symposium “Lumiere 3.0” at the Great Lakes Institute of Management, Gurgaon. The details can be referred to here: <https://www.greatlakes.edu.in/gurgaon/lumiere-research-symposium>.
- 17) Participated and completed the 5-day training program “Kaushal 2.0” on Emerging Technologies jointly conducted by BHEL and IIT Roorkee from 10th Oct to 14th Oct., 22.
- 18) Participated in the Faculty Development Program on “Gamification” held at the GLBIMR campus on May 24, 2024.
- 19) Participated in the online International Faculty Development Program on “Writing and Publishing a Case Study with the Case Centre organized by the International Relations Cell of GLBIMR, held on August 17, 2024.
- 20) Participated in the 6 days in-person ATAL Faculty Development Workshop from 16-21 September 2024, organized by AICTE, Great Lakes, Gurgaon, and Jindal Global Business School on the topic “Transformative Technologies for Sustainable and Circular Production and Consumption for Viksit Bharat 2047”.
- 21) Participated in the 3 days online Conference cum Workshop - POSIT Conference 2024 (Virtual) - The Open-Source Data Science Conference organized by POSIT, Seattle, WA, USA, held on August 12- 14, 2024.
- 22) Participated in a one-day Capacity Building Program – Case study teaching workshop at
- 23) GLBIMR on 26th October 2024, conducted by Dr. Prateek Modi, Director, BML Munjal

University, Gurgaon.

- 24) Participated in a one-day webinar in the Mastering Case-based Course Design organized by the Case Centre on 20th November 2024.
- 25) Participated in a one-day webinar, “The Ingredients of an Award-winning Case,” organized by the Case Centre on 21st November 2024.
- 26) Participated in the online workshop on “Metaheuristics: A Class of Intelligent Search Methods in AI organized by NIT Rourkela and IEEE Rourkela Section from 6th – 9th Feb. 2025.

Keen Interest & Hobbies:

- 1) Writing and publishing editorials on technological and business management issues.
- 2) Riding bikes and swimming.
- 3) Running, jogging, and fitness concerns.

Other Information:

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