

DR. ANKIT SHARMA

Assistant Professor, Indian Institute of Management Amritsar

Design Engineer, JLR ODEC	Gold Medal in Engineering	Certified Associate, Autodesk Inventor 2011	
EDUCATION AND ACADEMIC ACHIEVEMENTS			
Year	Degree	Institute	%
2021	Doctor of Philosophy, Operations	Indian Institute of Management Lucknow	-
2016-2018	2-Year Course Work in Ph.D.	Indian Institute of Management Lucknow	7.72/10
2009-2013	Bachelor of Engineering, Mechanical	Institute of Engineering and Technology, DAVV	87.22
Academic Achievements	<ul style="list-style-type: none">▪ Secured A+ grade in Dissertation on <i>A review of hub location problems in transportation networks in today's co-opetitive business environment</i> where different type of hub location problems were studied and research gap had been identified for the thesis work▪ Secured A+ grade in Integrated System Dynamics Modelling, where the Simulation based project on Sustainable development of logistics sector in India was carried out and managerial insights were derived.▪ Secured 7.72 CGPA during the two-year coursework phase in the Ph.D. in Operations Management at Indian Institute of Management Lucknow.▪ Awarded Gold Medal for securing 87.22% in Bachelor of Engineering, mechanical Engineering from Institute of Engineering and Technology, Devi Ahilya Vishwavidhyalaya, Indore.		
Teaching Interests	<ul style="list-style-type: none">▪ Operations Management▪ Network Design▪ Sustainability▪ Discrete Optimization▪ Empirical Studies▪ Business Statistics		
Certification	<ul style="list-style-type: none">▪ Introduction to Programming with MATLAB, (Nov 2018 – Present) License U85598MJ3G2T▪ Algorithmic Toolbox, (Sep 2018 – Present) License 5A73D9PKJZJX▪ Learning How to Learn: Powerful mental tools to help you master tough subjects (with Honors) (Oct 2018 – Present) License 7RQ4FLXTKW9U▪ Training program on Advanced Fuel injection System and Vehicle diagnosis, Bosch Authorized Training▪ How to Make a Comic Book (Project-Centered Course) (Jun 2018 – Present) License B5RNZYYYTGUX▪ Certified Associate of Autodesk Inventor Professional 2011, Course number 00170605, Autodesk		
Research Interests	<ul style="list-style-type: none">▪ My research areas include exploration of sustainable hub location network problems, optimization, sustainable logistics network design, e-commerce facility location and supply chain management. Currently I am working on sustainable <i>co-opetitive</i> hub location allocation problems in airline industry. I have further explored the emission reduction in airlines while designing the hub networks. Further, my work explores the policy implications of Carbon Offsetting and Reduction Scheme in International Aviation (CORSIA) implementation on international aviation routes. The work explores methodologies like mixed integer programming, optimization, and simulation modelling.▪ Further, I am exploring policies and their impact on transportation sector. Empirical methods using secondary data and simulation modelling are used in these studies.		
Conferences	<ul style="list-style-type: none">▪ Presented paper in 5th PAN IIM World Management conference held in IIM Lucknow in 2017 on <i>“Barriers to IT implementation in Indian Unorganized Logistics Sector”</i> that analysed the barrier identification and ranking of those barriers in adoption of technologies that enables the logistics operations to be more transparent, visible and cost effective.▪ Presented a paper in 11th ISDSI International Conference held in IIM Tiruchirappalli in 2017 fall on <i>“Sustainable logistics sector development using system dynamics modelling”</i>. Simulation modelling was done to analyse the sector for a period of 45 years.▪ Paper on <i>“Barriers to implementation of Industry 4.0 in emerging economies”</i> got selected in 12th ISDSI conference to be held in December 2018 at SPJIMR, Mumbai.▪ Paper on <i>“Duopoly Airline Network Design Decisions: A case of Co-opetition”</i> being presented at the XXIII Annual International Conference of the Society of Operations Management (SOM 2019).		

	<ul style="list-style-type: none"> ▪ Paper on “<i>Duopoly Airline Network Design Decisions under Carbon Offsetting and Reduction Scheme for International Aviation</i>” being presented in the 52nd Annual Convention of ORSI and International Conference 2019 at IIM Ahmedabad. ▪ Paper on “<i>Profit maximizing intercontinental hub location problem in airline industry under cooperation</i>” got selected to be presented in ISOLDE-XV, International Symposium on Location Decisions, in Hamburg, Germany. ▪ Presented a paper in Production and Operations Management Society (POMS) 31st Annual Conference in May 2021 on “<i>Duopoly Airline Network Design Decisions under Carbon Offsetting and Reduction Scheme for International Aviation (CORSLA)</i>”. Impact of CORSIA implementation on international airline networks was investigated in the study. 	
Workshops	<ul style="list-style-type: none"> ▪ Attended the IIMA Doctoral Scholars’ School 2019 on Randomized Controlled Trial (RCT), Lab and Field experiments and Panel Data Econometrics at the Indian Institute of Management, Ahmedabad, held during 20th - 22nd September 2019. ▪ Attended workshop on Large Scale Optimization, SOM LSO covering fundamentals of LP, IP, MIP, MILP and MINLP held between 15th- 22nd of June, 2019 at Indian Institute of Management, Indore ▪ Attended "Ontological Meta-Analysis and Synthesis Workshop" by Dr. Arkalgud Ramaprasad is Professor Emeritus of Information and Decision Sciences at the University of Illinois at Chicago (UIC) at IIM Lucknow. ▪ Attended a Two-Week ISTE Workshop on Engineering Mechanics under the National Mission on Education through ICT (MHRD, Govt. of India) by IIT Bombay. 	
Publications	<ul style="list-style-type: none"> ▪ Raj, A., Dwivedi, G., Sharma, A., de Sousa Jabbour, A. B. L., & Rajak, S. (2019). Barriers to the Adoption of Industry 4.0 Technologies in the Manufacturing Sector: An Inter-Country Comparative Perspective. <i>International Journal of Production Economics</i>, 107546. ▪ Chakraborty, S., Sharma, A., & Vaidya, O. S. (2020). Achieving sustainable operational excellence through IT implementation in Indian logistics sector: An analysis of barriers. <i>Resources, Conservation and Recycling</i>, 152, 104506. 	
WORK EXPERIENCE		
Design Engineer (March 2014-May 2016)	<ul style="list-style-type: none"> ▪ I worked in Tata Technologies India Ltd, as Design Engineer for Jaguar Land Rover Offshore Dedicated Engineering Centre and supported in the areas ranging from product development through AVA methodology, design modifications in body parts to Pedestrian safety mark up for the premium vehicles of JLR. ▪ I have worked on cases like researching a way to reduce the aberration of bonnet leading edge in premium automobile segment of Jaguar XE, XF, XJ and F-Type, whose bumper and bonnet rusting can cause a heavy toll on customer’s pockets. I worked on cost reduction ideas for developing a CAE analysis capability in CAD department that could reduce the dependency on CAE department every time a design engineer wanted to test the feasibility of its design for strength and robustness. These efforts have made me learn new skills along with cross departmental coordination and a perspectives towards value addition to the organization. 	
Teaching Assistant (June 2013-Feb 2014)	<ul style="list-style-type: none"> ▪ I served as a Teaching Assistant for Engineering Drawing in the Institute of Engineering and Technology DAVV, Indore where I covered topics like 2D, 3D Projections, Views, Isometric Projections, Development of Surfaces, lettering and curves formation to name a few. 	
AWARDS & RECOGNITIONS		
Go-Green Award	<ul style="list-style-type: none"> ▪ Secured Go-Green Award for designing Exhaust After treatment System for an All-Terrain Vehicle (ATV) employing Secondary Air Injection and Selective Catalytic Reduction process at the National Annual event BAJA SAEINDIA 2012, held at NATRAX Facility of NATRIP, Pithampur in Madhya Pradesh. 	2012
Gold Medal	<ul style="list-style-type: none"> ▪ Securing 1st position in the University under Engineering domain after scoring 87.22% in Bachelor of Engineering, Mechanical Engineering from Institute of Engineering and Technology, DAVV, Indore. 	2014
Srujan Innovation Quiz	<ul style="list-style-type: none"> ▪ First Runner Up in National Level Srujan Innovation Quiz held in Tata Technologies. 	2015
Powerlifting Competition	<ul style="list-style-type: none"> ▪ Secured Bronze medal at the Powerlifting Competition in Indian Institute of Management Lucknow at the Annual Foundation Day. 	2018

Best Paper Award	<ul style="list-style-type: none"> ▪ Secured the Best Paper Award on “<i>Duopoly Airline Network Design Decisions: A case of Co-opetition</i>” being presented at the XXIII Annual International Conference of the Society of Operations Management (SOM 2019). 	2019
EXTRA CURRICULAR ACTIVITIES		
Software Skills	<ul style="list-style-type: none"> ▪ MATLAB programming for coding and function creation for solving optimization problems ▪ GAMS for linear and nonlinear optimization problems ▪ Minitab for Statistics, QM for Windows and Microsoft Excel Solver ▪ Microsoft Office Tools, viz., MS Excel, Power Point, Word, Publisher, Project Plan ▪ Autodesk Inventor. (Certified Associate of Autodesk Inventor 2011) AutoCAD tools 	
Volunteer Experience	<ul style="list-style-type: none"> ▪ Volunteered in the 5th PAN IIM World Management conference held in IIM Lucknow in 2017 ▪ Volunteered an all India four day design software workshop viz. DCS CATIA, PRO-E and ADAMS under SAE banner for 2012 BAJA participants. 	
Positions Held	<ul style="list-style-type: none"> ▪ President- SAE India Collegiate Chapter in Institute of Engineering and Technology DAVV from 2012-13 session ▪ Treasurer- Indian Society of Heating Ventilation and Air Conditioning Engineers (ISHRAE) Collegiate Chapter in Institute of Engineering and Technology DAVV from 2012-13 session 	
Profiles	<ul style="list-style-type: none"> ▪ LinkedIn: www.linkedin.com/in/Ankit-Sharma-iiml-ac-in ▪ Blog: https://ankitsharma8390.wordpress.com ▪ Google Scholar: https://scholar.google.com/citations?user=XTcD7H0AAAAJ&hl=en 	