

CURRICULUM VITAE

Dr. Jinesh Kumar Jain

Associate Professor

Malaviya National Institute of Technology Jaipur

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Areas of Research Interest:

Joining and Welding, Additive Manufacturing, Surfacing Technology

Education:

Qualification	School/College	Board/University	Year	Percentage
Ph.D.	MNIT, Jaipur	MNIT Jaipur	2013	Awarded
M. Tech.	MNIT, Jaipur	MNIT Jaipur	2005	70.33
B.E.	MBM Engineering College Jodhpur	Jai Naraian Vyas University, Jodhpur	1998	68.40
HSSC	St. Pauls Sr. Sec. School, Ajmer	RBSE, Ajmer	1993	66.30
SSC	Gujrati Senior Secondary School, Ajmer	RBSE, Ajmer	1991	77.63

Employment Record

Academic Experience:

Organization	Designation	From	To
Malaviya National Institute of Technology, Jaipur	Associate Professor	21-05-2018	Continued
Govt. Engineering College, Ajmer	Associate Professor	01-03-2008	20-05-2018
Jaipur Engineering College and Research Centre, Jaipur	Assistant Professor	17-05-2007	29-02-2008
Center for Electronic Governance	Mentor	08-05-2007	16-05-2007
Poornima College of Engineering, Jaipur	Assistant Professor	02-01-2002	07-05-2007
Government Engineering College, Ajmer	Guest Faculty	01-07-2000	30-12-2001

Industrial Experience:

Organization	Designation	From	To
Jodhpur Bearings Limited, Jodhpur	Quality Assurance Engineer	04-02-1999	30-06-2000

Memberships of Professional bodies:

1. Life time membership of Indian Institute of Welding (IIW). M- DEL/M/R-12532/L
2. Life time membership of Indian Society on Mechanical Engineers (ISME). M- Fellow (FISME)

3. Life time membership of The Indian Society for Technical Education (ISTE). M- LM65977
4. Life time membership of The Institution of Engineers (India). M- 138367-6
5. Life time membership of Materials Research Society of India. LMB3441
6. Life time membership of Indian Science Congress Association.

Affiliation with other Institutions:

1. **Member of Board of Management**, Modern Institute of Technology and Research Centre, Alwar.
2. **Member of Board of Studies**, JK Lakshmipat University, Jaipur.
3. **Member of Board of Studies**, University College of Engineering, Banswara.
4. **Member of Research Advisory Committee**, MIT World Peace University, Pune

Sponsored Projects:

- **Project Title:** Challenges to Circular Economy Adoption in Handicraft MSMEs of Rajasthan A Sustainable Development Goals Analysis.
Agency: ICSSR.
Status: Running
Funding: 16.10 Lacs.
Involvement: Principal Investigator
- **Project Title:** Enriched Biomechanical Auxetic Metal-Polymer Implant Fabrication Using Smart Manufacturing Techniques.
Agency: RDST.
Status: Running
Funding: 16.11 Lacs.
Involvement: Principal Investigator
- **Project Title:** Simulation and experimental study of solar photovoltaic based cooling system.
Agency: National Project Implementation Unit, New Delhi.
Status: Running
Funding: 8.43 Lacs.
Involvement: Co- Principal Investigator
- **Project Title:** Exploration of sustainable manufacturing in Indian manufacturing industries
Agency: National Project Implementation Unit, New Delhi.
Status: Running
Funding: 3.95 Lacs.
Involvement: Co- Principal Investigator

Patents:

- **Patent Title:** Automated Manhole Cover to Control Waterlogging Problem
Role: Inventor
Application No.: 202011045686-A
Status: Granted
- **Patent Title:** Hybrid Electric Discharge Drilling with Rotating Work-piece and Vibrating Electrode
Role: Inventor
Application No.: 202211013253

Status: Granted

- Patent Title:** An Effective Fixture for A Lathe Machine to Remove Exit Pinhole Defect in The Friction Stir Process
Role: Inventor
Application No.: 202311013839
Status: Granted
- Patent Title:** Surface Composite for Biodegradable Biocompatible-Antimicrobial Bone Fixation Implants
Role: Inventor
Patent No.: 546005
Status: Granted
- Patent Title:** Foot Controlled Driving System in Vehicles
Role: Inventor
Application No.: 202211076404 A
Publication Date: December 28, 2022
- Patent Title:** 3D Metallic Printer
Role: Inventor
Application No.: 202311040809 A
Publication Date: July 21, 2023

Publications:

Journals: 33

- Bhojak, V., **Jain, J.K.**, Kumar, C.L., Kumari, S., Saxena, K.K. and Abdullaev, S.S., 2025. Optimisation of cooling-assisted friction stir process parameters to study mechanical and wear characteristics of GMAW-cladded AA5083/ER4043. *International Journal of Cast Metals Research*, pp.1-11.
- Bhojak, V., **Jain, J.K.**, Singhal, T.S. and Banerjee, M.K., 2025. Scratch Wear Behavior of Hybrid Surface Composite Al5083/(SiC+ TiO₂) Produced Through Cooling-Assisted Friction Stir Processing Route. *Journal of Materials Engineering and Performance*, pp.1-10.
- Vishal Bhojak; **Jinesh Kumar Jain**, “Fabrication and Characterization of Hybrid SurfaceCompositeAl5083/(SiC+TiO₂) Using Cooling-Assisted Friction Stir Processing”, *Transactions of the Indian Institute of Metals (SCI)* (2024). DOI: 10.1007/s12666-024-03475-w
- Tejendra Singh Singhal; **Jinesh Kumar Jain**; Manoj Kumar; Kuldeep Kumar Saxena, “Comparative Investigation, Analysis, and Optimization of Weld Reinforcement During Powder-Fed Metal Arc Welding of AISI 1023”, *Advances in Materials and Processing Technologies (ESCI)* (2024).
- Tejendra Singh Singhal; **Jinesh Kumar Jain**; Manoj Kumar, “Experimental Investigation and Optimization of Process Parameters of Self-Shielded Wire Powder Arc Additive Manufacturing on Low-Carbon Steel Through RSM”, *Arabian Journal for Science and Engineering (SCI)* (2024) DOI: <https://doi.org/10.1007/s13369-024-09332-8>.
- Pankaj Sonia; **Jinesh K. Jain**; Naveenkrishna Alla; Manish Gupta; Md Irfanul Haque Siddiqui; Karrar Hazim Salem; Farooq Ahmed; Sherzod Shukhratovich Abdullaev, “Friction stir processing of AZ31 alloy to improve the mechanical, biodegradation, and in vitro biocompatible characteristics”, *Journal*

of Adhesion Science and Technology (SCI), vol. 38 pp. 1974 - 1999 DOI: <https://doi.org/10.1080/01694243.2023.2283969>.

- Akant Pareek; **Jinesh Kumar Jain**; V Raghavender; Nakul Gupta; Vishal Bhojak; Ashish Saxena, "Investigation on mechanical and wear performance of friction stir processed on GMAW cladded AA5083/ER4043" *International Journal on Interactive Design and Manufacturing (ESCI)*, vol. 18 pp. 1401 - 1414 DOI: <https://doi.org/10.1007/s12008-023-01713-x>
- Nikhil Jain; **Jinesh Kumar Jain**; Deepak Rajendra Unune, "Modeling of EDM parameter with novel W/O nano-emulsion", *Journal of the Brazilian Society of Mechanical Sciences and Engineering (SCI)* (2024): vol. 46 pp. DOI:<https://doi.org/10.1007/s40430-024-05160-x>.
- Nikhil Jain, **Jinesh Kumar Jain**, Pravin Pandit Harane, Deepak Rajendra Unune. " Application of a novel non-edible oil-based water-in-oil nano-emulsion as a dielectric for the amelioration of electrical discharge machining performance". *Journal of the Brazilian Society of Mechanical Sciences and Engineering (SCI)* (2023): 379
- Pankaj Sonia, **Jinesh Kumar Jain**, Kuldeep K Saxena, Vinayak Malik. " Surface modification and surface composites development techniques for biocompatible and biodegradable alloys." *Surface Review and Letters (SCI)* (2023)
- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Manoj Kumar, B. D. Y. Sunil, Vishal Bhojak, Kuldeep Kumar Saxena, and Chander Prakash. "Microstructure and mechanical properties of GMAW cladded AA 6063 using friction stir processing as a post-processing technique." *Advances in Materials and Processing Technologies (ESCI)* (2023): 1-15.
- Toshit Jain, **Jinesh Kumar Jain**, and Daleel Saad Abdul-Zahra. "Development and Comparative Analysis of MWCNT-Polymer Composites for Bioelectronics Application." In *Materials Science Forum (Scopus)*, vol. 1085, pp. 67-76. Trans Tech Publications Ltd, 2023.
- Toshit Jain, **Jinesh Kumar Jain**, Rajeev Agrawal, and Shubha Johri. "Investigation of environmental potentials on supply chain of textile and yarn industry using smart and sustainable life cycle assessment." *Management of Environmental Quality: An International Journal (Scopus)* 34, no. 4 (2023): 902-925.
- Vishal Bhojak, **Jinesh Kumar Jain**, Kuldeep Kumar Saxena, Bharat Singh, and Kahtan A. Mohammed. "Friction stir process: a comprehensive review on material and methodology." *Indian Journal of Engineering and Materials Sciences (IJEMS)(SCI)* 30, no. 1 (2023): 45-64.
- Vishal Bhojak, **Jinesh Kumar Jain**, Tejendra Singh Singhal, Kuldeep Kumar Saxena, Chander Prakash, Manoj Kumar Agrawal, and Vinayak Malik. "Friction Stir Processing and Cladding: An Innovative Surface Engineering Technique to Tailor Magnesium-Based Alloys for Biomedical Implants." *Surface Review and Letters (SCI)* (2023): 2340007.
- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Manoj Kumar, Vishal Bhojak, Kuldeep Kumar Saxena, Dharam Buddhi, and Chander Prakash. "A comprehensive comparative review: welding and additive manufacturing." *International Journal on Interactive Design and Manufacturing (IJIDeM) (ESCI)* (2023): 1-15.
- Pankaj Sonia, **Jinesh Kumar Jain**, Jayahari Lade, Vinayak Malik, Kuldeep K. Saxena, and Rajesh Singh. "Fabrication and characterization of Magnesium based Mg-Titania surface composite for bioimplants." *Surface Review and Letters (SCI)* (2022).

- Vishal Bhojak, Jayahari Lade, **Jinesh Kumar Jain**, Amar Patnaik, and Kuldeep Kumar Saxena. "Investigation of annealing on CR-2 grade steel using Taguchi and Taguchi based gray relational analysis." *Advances in Materials and Processing Technologies (ESCI)* 8, no. sup4 (2022): 2231-2246.
- Vishal Bhojak, **Jinesh Kumar Jain**, Tejendra Singh Singhal, Kuldeep Kumar Saxena, Dharam Buddhi, and Chander Prakash. "Influence of friction stir process on the MIG cladded AA 6063 to study the wear performance." *International Journal on Interactive Design and Manufacturing (IJIDeM) (ESCI)* (2022): 1-13.
- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Manoj Kumar, and Kuldeep Kumar Saxena. "Effect of filler wire preheating and nozzle cooling with advanced submerged arc welding process on bead geometry and microstructure." *Advances in Materials and Processing Technologies (ESCI)* 8, no. sup2 (2022): 504-518.
- Pankaj Sonia, **Jinesh Kumar Jain**, and Kahtan A. Mohammed. "A Review of Magnesium Based MMC Fabrication Techniques for Biomedical Applications." *Key Engineering Materials (Scopus)* 924 (2022): 141-150.
- Pankaj Sonia, **Jinesh Kumar Jain**, and Kuldeep K. Saxena. "Influence of severe metal forming processes on microstructure and mechanical properties of Mg alloys." *Advances in Materials and Processing Technologies (ESCI)* 8, no. 3 (2022): 2405-2428.
- Nikhil Jain, and **Jinesh Kumar Jain**. "Implementation of tool and electrolyte-based development in the ultrasonic-assisted ECDM process: a review." *Journal of the Brazilian Society of Mechanical Sciences and Engineering (SCI)* 44, no. 6 (2022): 248.
- Toshit Jain, **Jinesh Kumar Jain**, and Kuldeep Kumar Saxena. "Design and Comprehensive Study of Biodegradable Zinc-based Implants for Bio-medical Applications." *Advances in Materials and Processing Technologies (SCI)* 8, no. sup2 (2022): 519-536.
- Pankaj Sonia, **Jinesh Kumar Jain**, and Kuldeep Kumar Saxena. "Influence of ultrasonic vibration assistance in manufacturing processes: A Review." *Materials and Manufacturing Processes (SCI)* 36, no. 13 (2021): 1451-1475.
- M. P. Singh, **Jinesh Kumar Jain**, "Impact of Advanced Machining and Process Improvement Technologies in Manufacturing Industries", **European Journal of Mechanical Engineering Research UK**, 3(1), pp. 34-47, 2016 (ISSN 2055-656X).
- **Jinesh Kumar Jain**, Deepak Saini, "Optimization of EDM Parameters for Maximum Removal Rate on D 3 Die Steel Using Factorial Design", **International Journal of Engineering Technology and Computer Research**, 3(3), pp. 230-236, 2015. (ISSN 2348-2117)
- **Jinesh Kumar Jain**, M. P. Singh, G. S. Dangayach, Dhananjay Chauhan, "Smoothness Running of Train on Uneven Tracks with help of Air Springs", **International Journal of Mechanical Engineering and Technology**, 5(9), 2014. (ISSN:0976 – 6359)
- **Jinesh Kumar Jain**, Ranveer Singh, "An Overview on Innovative Advancement in Dairy Sector", **International Journal of Emerging Trends in Science and Technology**, 1(5), 2014.
- M. P. Singh, **Jinesh Kumar Jain**, "Experimental Analysis of the Wear Behaviour in Manufacturing Industry", **International Journal of Engineering Technology and Management**, 1(1), 2014. (ISSN: 2394-6881)
- M. P. Singh, **Jinesh Kumar Jain**, "Productivity Improvement through Lean Manufacturing", **International Journal of Engineering Technology and Computer Research**, 2(1), pp. 20-23, 2014 (ISSN 2348-2117).

- **Jinesh Kumar Jain**, G.S. Dangayach, G. Agarwal, “Important Factors of Supply Chain Management”, **International Journal of Engineering Technology and Management**, 1(1), pp. 40-43, 2014 (ISSN: 2394-6881)
- **Jinesh Kumar Jain**, Deepak Saini, “Optimization of Pulse on Time and Gap Voltage Parameters for Maximum Material Removal Rate on D 3 Die Steel Using Factorial Design”, **International Journal of Engineering Technology and Computer Research**, 1(1), 2013. (ISSN 2348-2117)
- M. P. Singh, **Jinesh Kumar Jain**, “Effect of Hand arm Vibrational Exposure in a Manufacturing Industry”, **International Journal of Scientific Research and Management**, 1(2), pp. 122-133, 2013.
- **Jinesh Kumar Jain**, “Optimization of Speed and Feed Rate for a Low Vibration and Better Surface Finish in Mild steel on Lathe”, **International Journal of Engineering and Computer Research**, 1(3), pp. 178-184, 2012.
- **Jinesh Kumar Jain**, G. S. Dangayach, Gopal Agarwal, “Evidence of Supply Chain Management in Indian Manufacturing Firms: A Survey”, **International Journal of Management Science and Engineering Management**, 6(3), 2011, pp. 198-209 (ESCI)
- **Jinesh Kumar Jain**, G. S. Dangayach, Gopal Agarwal, “Evidence of Supply Chain Management in Indian Manufacturing Firms: A Survey”, **International Journal of Management Science and Engineering Management**, 6(3), 2011, pp. 198-209 (ESCI)
- **Jinesh Kumar Jain**, G. S. Dangayach, G. Agarwal, Soumya Banerjee, “Supply chain Management: Literature Review and Some Issues”, **Journal of Studies on Manufacturing**, 1(1), pp. 11-25, 2010.

Conference Papers (Indexed): 37

- Ravi Yadav, **Jinesh Kumar Jain**, Avdhesh Kumar Sharma, Vishal Bhojak, “ Investigation of the material removal rate on haste alloy C-276 using electrical discharge machining”, *Materials Today: Proceedings*, 2023.
- Ravi Yadav, **Jinesh Kumar Jain**, Avdhesh Kumar Sharma, and Vishal Bhojak. "Investigation of the material removal rate on haste alloy C-276 using electrical discharge machining." *Materials Today: Proceedings*, 2023.
- Vishal Bhojak, Tejendra Singh Singha, Sundeep Kumar, **Jinesh Kr Jain**, "Review on Friction Stir Process in Aerospace Industries", *New Vistas of Development in Aerospace Engineering and Societal Development by :The Institution of Engineers at The Institution of Engineers Centre, Jaipur*, 2023
- Nikhil Jain, Sundeep Kumar, **Jinesh Kumar Jain**, "Investigation on the Technical Feasibility of Nano-Emulsified Bio-Fuel in Diesel Engine" , *New Vistas of Development in Aerospace Engineering and Societal Development by :The Institution of Engineers at The Institution of Engineers Centre, Jaipur*, 2023
- Pankaj Sonia, Tejendra Singh Singhal, **Jinesh Kumar Jain**, "Review on Welding of Polymer" , *New Vistas of Development in Aerospace Engineering and Societal Development by :The Institution of Engineers at The Institution of Engineers Centre, Jaipur*, 2023
- Akant Pareek, Tejendra Singh Singhal, Sundeep Kumar, **Jinesh Kumar Jain**, "Review on Materials Used in Aerospace Industries" , *New Vistas of Development in Aerospace Engineering and Societal Development by :The Institution of Engineers at The Institution of Engineers, Jaipur*, 2023
- Tejendra Singh Singhal, Vishal Bhojak, **Jinesh Kumar Jain**, "Review on Dissimilar Metal Welding in Aerospace Industry" , *New Vistas of Development in Aerospace Engineering and Societal Development by :The Institution of Engineers at The Institution of Engineers Centre, Jaipur*, 2023

- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Manoj Kumar, Rajeev Agrawal (2023), "A Comparative Study of Weld Bead Geometry of AISI 1023 with meta Plate Width Using SAW and ASAW", *Innovations in Mechanical Engineering II. icieng* 2022.
- Toshit Jain, **Jinesh Kumar Jain**, and D. Roy, "Joint space redundancy resolution of serial link manipulator: An inverse kinematics and continuum structure numerical approach," *Materials Today: Proceedings(Elsevier)*, Vol. 38, pp. 423-431, 2021.
- Vinod Kumar Aswal, **Jinesh Kumar Jain**, and P. Sonia, "Review on the behavior of various parameters on heat distribution in the SAW process," *Materials Today: Proceedings(Elsevier)*, 2021.
- Mahesh Chaudhary, Toshit Jain, and **Jinesh Kumar Jain**, "Advanced manufacturing techniques and advancements in biodegradable biomaterials," *Materials Today: Proceedings(Elsevier)*, 2021.
- Pankaj Sonia, **Jinesh Kumar Jain**, Piyush Singhal, and Kuldeep K. Saxena, "Performance evaluation of hybrid polymer nanocomposite," *Materials Today: Proceedings(Elsevier)*, vol. 44, pp. 1659-1663, 2021
- Pankaj Sonia, **Jinesh Kumar Jain**, Rajeev Agrawal, "Strengthening of Polymer by Reinforcement of Al₂O₃ Nano Particles" in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, 2020, pp. 94-97
- Mahesh Chaudhary, **Jinesh Kumar Jain**, Toshit Jain, "A Review on Bone Regeneration via Porosity Development using Smart Manufacturing Techniques", *Proceedings of Energy, Materials Sciences & Mechanical Engineering*, NIT Delhi, 2020.
- Vinod Kumar Aswal, **Jinesh Kumar Jain**, "Various Methods of Metal Transfer in Welding Process", *Proceedings of Energy, Materials Sciences & Mechanical Engineering*, NIT Delhi, 2020.
- A. Sharma, A. Jamwal, R. Agrawal, and **Jinesh Kumar Jain**, "Indicators to Sustainable Supply Chain Management in Indian Additive Manufacturing Industries," in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, pp. 1-5, 2020.
- Tejendra Singh Singhal and **Jinesh Kumar Jain**, "GMAW cladding on metals to impart anti-corrosiveness: Machine, processes and materials," *Materials Today: Proceedings(Elsevier)*, vol. 26, pp. 2432-2441, 2020.
- Anjali Gandhi, Anbesh Jamwal, Rajeev Agrawal, and **Jinesh Kumar Jain**, "Cyber Physical Systems in Manufacturing and Production: A Bibliometric Analysis," in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, 2020.
- A. Yadav, Rajeev Agrawal, Anbesh Jamwal, and **Jinesh Kumar Jain**, "Life Cycle Assessment in Buildings: Indian Perspective," in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, 2020. (ISBN: 978-81-7906-000-0)
- Toshit Jain, **Jinesh Kumar Jain**, Rajeev Agrawal, "Biomaterials for Human Bone Tissues: Overview and Processes", in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, 2020, pp.121-130. (ISBN: 978-81-7906-000-0)
- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Rajeev Agrawal, "Welding of Polymers and Their Challenges" in *Proceedings of National Conference on Recent Advancement in Engineering, Udaipur*, 2020, pp. 116-120. (ISBN: 978-81-7906-000-0)
- Vineet Pandey, Rajeev Agrawal, **Jinesh Kumar Jain**, "The Future of Solar Power in India: Social, Economic and Environmental Impact", **6th International Conference on Production and Industrial Engineering (CPIE-2019)**, NIT Jalandhar, 2019.

- Rajesh Singh Gurjar, **Jinesh Kumar Jain**, Rajeev Agrawal, “Health Effects of Exposure to Inhalable and Inhalable Welding Fumes at Indian Workplaces”, **6th International Conference on Production and Industrial Engineering (CPIE-2019)**, NIT Jalandhar 2019.
- Prince Ranjan, Rajeev Agrawal, **Jinesh Kumar Jain**, “Life Cycle Assessment of Needle Roller Bearing” **3rd IEOM European International Conference on Industrial Engineering and Operation Management Pilsen, Czech Republic**, pp. 957-964, 2019.
- Vishal Verma, **Jinesh Kumar Jain**, Rajeev Agrawal, “Life cycle Assessment of Corrugated Box” **3rd IEOM European International Conference on Industrial Engineering and Operation Management Pilsen, Czech Republic**, pp. 965-972, 2019.
- Faishal Pathan, **Jinesh Kumar Jain**, “Switching to Green Manufacturing for Attaining Sustainable Production & Reaping Environmental Benefits” **National Conference on Renewable Energy Sources & Sustainable Development: Opportunities & Challenges, Jaipur**, 2018.
- Faishal Pathan, Dileep Gehlot, **Jinesh Kumar Jain**, “A Review on Electrochemical Spark Machining”, **4th International Conference on Industrial Engineering (ICIE-2017)**, SVNIT, Surat, 2017.
- **Jinesh Kumar Jain**, “A review on Evolutionary Optimization Techniques for Optimizing Various Machining Parameters”, **International Conference on Recent Innovations in Engineering and Technology**, 2017.
- Vikrant Sharma, **Jinesh Kumar Jain**, Ankur Pareek, “A Review on Cellular Manufacturing System”, **International Conference on Recent Innovations in Engineering and Technology, Jaipur**, 2017.
- Vikrant Sharma, **Jinesh Kumar Jain**, “Euclidean Distance and Hierarchical Clustering Method based on Centroid Linkage for the Cell Formation Problem in Cellular Manufacturing”, **International Conference on Recent Innovations in Engineering and Technology, Jaipur**, 2017.
- Faishal Pathan, **Jinesh Kumar Jain**, “Role of Entrepreneurship and Innovation in the Progress of Production and Industrial Engineering”, **9th ISDSI International Conference, Goa**, 2016.
- Faishal Pathan, **Jinesh Kumar Jain**, “Empowering Small and Medium Scale Enterprises in India: A path for Growth”, **International Conference on ‘Make in India Initiative: Role and Challenges for SMEs in the Global Perspective’, Jaipur**, 2016.
- **Jinesh Kumar Jain**, G. S Dangayach, G. Agarwal, “Emerging Trends of e-supply chain in Indian Automobile Component Manufacturing Firms”, **1st International Conference on Best Practices in Supply Chain Management Bhubaneswar**, 2012.
- **J. K. Jain**, G. Dangayach, G. Agarwal, S. Banerjee, and P. Dey, "Selection of end user in supply chain network using Fuzzy-Pareto approach," in *First International Technology Management Conference, 2011: IEEE*, pp. 302-308.
- **Jinesh Kumar Jain**, Ranveer Singh, “An Overview of supply Chain Vulnerability and Resilience”, **International Conference on Management Perspectives: Emerging Trends and Leadership Challenges**, 2011.
- **Jinesh Kumar Jain**, G. S. Dangayach, G. Agarwal, “Introduction of Total Productive Maintenance”, **International Seminar on “Need of Aviation Universities to meet the Emerging Demands”, Rajasthan State Center, The Institution of Engineers (India)**, 2008.
- **Jinesh Kumar Jain**, G. S. Dangayach, G. Agarwal, M. P. Singh, Hardik Sharma, “Value Chain versus Supply Chain”, **International Seminar on “New Vistas in Manufacturing”, Rajasthan State Center, The Institution of Engineers (India)**, 2008.

Book Chapters (15)

- Vishal Bhojak, **Jinesh Kumar Jain**, Tejendra Singh Singhal. “Tribological behavior of the metal forming process” **Analysis and Optimization of Sheet Metal Forming Processes**, 2023.
- Tejendra Singh Singhal, **Jinesh Kumar Jain**, Manoj Kumar, Vishal Bhojak. “Sustainability in Manufacturing: Material Forming and Joining Processes” **Sustainability in Manufacturing: Current Status & Future Directions**, 2023.
- Vishal Bhojak, **Jinesh Kumar Jain**, Tejendra Singh Singhal. “Energy Efficiency of Sustainable Manufacturing Processes” **Sustainability in Manufacturing: Current Status & Future Directions**, 2023.
- Vinod Kumar Aswal, **Jinesh Kumar Jain**, Manoj Kumar, Tejendra Singh Singhal, Tapas Bajpai, "Investigation and Optimization of Weld Bead Geometry of AISI 1023 with Varying Plate Width Using Taguchi and Multiple Regression Analysis." **Advances in Additive Manufacturing and Metal Joining: Proceedings of AIMTDR 2021. Singapore: Springer Nature Singapore**. pp. 365-379, 2023
- Mahesh Choudhary, **Jinesh Kumar Jain**, and Toshit Jain. "Development and Characterization of Zn–Mg Biodegradable Materials Using Powder Metallurgy." **Advances in Additive Manufacturing and Metal Joining: Proceedings of AIMTDR 2021. Singapore: Springer Nature Singapore**, 2023. 267-274.
- Vishal Bhojak and **Jinesh Kumar Jain**, “Tribological Behavior in Bulk and Sheet Forming Processes” **Metal Forming Processes: Developments in Experimental and Numerical Approaches**, 2022, pp. 121-132
- **Jinesh Kumar Jain** and Pankaj Sonia, "Recent Trends in Welding Polymers and Polymer–Metal Hybrid Structures" **Light Weight Materials: Processing and Characterization**, 2022, pp. 39-71.
- Tejendra Singh Singhal, and **Jinesh Kumar Jain**, "A Quantitative and Qualitative Review of Sustainable Manufacturing", **Recent Advances in Mechanical Engineering: Springer, Singapore**, pp. 941-960, 2021.
- Prince Ranjan, Rajeev Agrawal, and **Jinesh Kumar Jain**. "Life Cycle Assessment in Sustainable Manufacturing: A Review and Further Direction." **Operations Management and Systems Engineering: Springer, Singapore**, pp.191-203, 2021
- Vishal Verma, **Jinesh Kumar Jain**, and R. Agrawal, "Sustainability Assessment of Organization Performance: A Review and Case Study," **Operations Management and Systems Engineering, Lecture Notes on Multidisciplinary Industrial Engineering:Springer, Singapore**, pp. 205-219, 2021
- Mahesh Choudhary, **Jinesh Kumar Jain**, T. Jain, R. Agrawal, and S. Kumar, "Biocompatibility Enhancement of Magnesium Alloys via Surface Modification Method: A Review." in **Recent Advances in Smart Manufacturing and Materials: Springer, Singapore**, 2021, pp. 423-432, 2021.
- Vinod Aswal, **Jinesh Kumar Jain**, T. S. Singhal, R. Agrawal, and S. Kumar, "Effect of Process Parameters on Weld Bead Geometry, Microstructure, and Mechanical Properties in Submerged Arc Welding," in **Recent Advances in Smart Manufacturing and Materials: Springer**, 2021, pp. 403-412.
- Kiran Gundu, Anbesh Jamwal, Alok Yadav, Rajeev Agrawal, **Jinesh Kumar Jain** & Sundeep Kumar, “Circular Economy and Sustainable Manufacturing: A Bibliometric Based Review” **Recent Advances in Industrial Production: Springer**, 2021, pp. 137-147.
- Nikhil Jain, **Jinesh Kumar Jain**, and B. Bhardwaj, "Effect of Tool Rotation on Surface Roughness During Electro Discharge Machining of Hastelloy C-276," in **Manufacturing Engineering: Springer, Singapore**, pp. 231-243, 2020
- Nikhil Jain, **Jinesh Kumar Jain**, and B. Bhardwaj, "Effect of Tool Rotation on Metal Removal Rate During Electro-Discharge Machining of Hastelloy C-276," in **Manufacturing Engineering: Springer, Singapore** 2020, pp. 159-171.

Books Published:

- **Manufacturing and Machining Processes**, Notion Press, USA, 2022
- **Welding Technology - Conventional and Advanced Techniques**, Notion Press, USA, 2022

- **Recent Advances in Industrial Production**, Springer, Singapore, 2021
- **Recent Advances in Smart Manufacturing and Materials**, Springer, Singapore, 2021
- **FEA of Gear Transmission Error**, Lap Lambert Academic Publishing, UK, 2021.
- **The Fundamentals of Internal Combustion Engines**, Lap Lambert Academic Publishing, UK, 2019.
- **Mechanics of Solids**, Ashirwad Publications, 2014.
- **Hydraulic Machines and Hydro-Electric Power Plant**, Ashirwad Publications, 2009.

Guest Lectures Delivered:

- **“3D and 4D Printing Applications and overview of smart materials”**, in One-Week AICTE Sponsored ATAL Workshop on “3D Printing”, MNIT Jaipur, October 2-6, 2019.
- **“Sustainability through Green Manufacturing”**, 2nd International conference on Recent Innovations & Technological Development in Mechanical Engineering, JECRC Jaipur, April 5-7, 2019.
- **“Advances in Welding Technology & Applications”**, 4th International Conference on Recent Innovations & Technological Developments in Mechanical Engineering, JECRC Jaipur, March 11-12, 2022.

PhD Guidance:

S. No.	Name of Student	Title of Dissertation	Enrollment	Status
1	Pankaj Sonia	Development and Characterization of Mg-Titania composite for Biodegradable Implants	Jan., 2020	Awarded
2	Tejendra Singh Singhal	Design and Development of Powder Fused Metallic 3D-Printing Process using Welding Arc	Aug., 2019	Awarded
	Nikhil Jain	Synthesis and Testing of Stable Water in Oil Nano Emulsion from Edible and Non-Edible Oil for EDM Operation	Jan., 2021	Awarded
3	Toshit Jain	Design and Development of Scaffold for Adjustable Bone Tissues using Smart Material through Additive Manufacturing Techniques	Aug., 2019	Pursuing
4	Vishal Bhojak	Fabrication and characterization of surface composites through cooling assisted friction stir process	Jan., 2021	Pursuing
5	Manish Jindal	Study and Optimization of Properties of Dissimilar Weldments by TIG Welding	Jan., 2023	Pursuing
6	Navin Porwal	Machine Learning in Additive Manufacturing Techniques	Aug., 2024	Pursuing
7	Praveen Kumar Rao	Design and Development of Bio Medical Implants	Jan., 2025	Pursuing

M. Tech. Thesis Supervised:

S. No.	Name of Student	Title of Dissertation	Year
1	Man Mohan Siddh	Study of continuous quality improvement in production environment using lean manufacturing and six sigma approaches-A case study at National Engineering Industries limited, Jaipur	2011
2	Dhananjay Chohan	Smoothness Running of a Train on Uneven Tracks with the Help of air Springs	2014

3	Ranveer Singh	To Reduce Inner Bore Grinding Rejection on NG-5-line, Ball bearing Assembly by using Six Sigma Approach at NEI limited	2014
4	Deepak Saini	Optimization of EDM Parameters for minimum surface roughness and Maximum material removal rate on D3 die steel using factorial design.	2016
5	Faishal Pathan	Parametric optimization on electro chemical spark micro machining by using response surface methodology and analysis by fuzzy logic system	2018
6	Vishal Verma	Life Cycle Analysis of Corrugated Box	2019
7	Karan Meena	Life Cycle Analysis in Textile Industry	2020
8	Vinod Aswal	Comparative Study of Weld Bead Geometry of AISI 1023 with varying Plate Width	2021
9	Mahesh Chaudhary	Mechanical Analysis and Characterization of Zinc Alloy	2021
10	Umang Joshi	Experimental Investigation of water-in-oil nano emulsified dielectric fluid in EDM process	2022
11	Rohit Sharma	Development and Thermo-mechanical analysis of Magnesium based, MWCNT-coated Hemp fiber reinforced epoxy composites	2022
12	Akant Pareek	Experimental Analysis of Tool design for surface modification using FSP	2023
13	Vaisakh S.	Investigation of mechanical and wear properties of cooling assisted Self-Reactive Friction Stir Welding on AA 6061	2024

B. Tech. Project Supervised

S. No.	Title of Project	Year
1	Implementation of Lean Philosophy in the Bakery Industry	2019
2	Optimization of Process Parameters During the MIG Welding of HSLA Steel	2020
3	Automation of GMAW Torch Motion & Study of Weldment Properties of Multi-pass GMAW Welding of AA6063	2021
4	Analysis of Friction Stir Process on Conventional Lathe	2022
5	Investigation on the properties enhancement of the Die used in Hot Forging	2023
6	Fixture Design for FSP In Vertical Milling Machine	2023
7	Effect of Tool Pin Profile on Microstructure and Wear Properties Using Cooling Assisted Friction Stir Processing	2024

Conference Organized:

Conference	Date	Department/ Institute
International level Conference on New Vistas of Development in Aerospace Engineering and Societal Development (ICAE-2023)	April. 7-9, 2023	The Institution of Engineers (India), Rajasthan Center, Jaipur
International level Conference on International Conference on Industrial Engineering and Management (ICIEM-2021)	Dec 17-19th, 2021	Malaviya National Institute of Technology, Jaipur
International level Conference on Evolution in Manufacturing (ICEM-2020)	Dec. 10-12, 2020	Malaviya National Institute of Technology, Jaipur

International level Conference on Advances in Materials Processing & Manufacturing Applications (iCADMA)	Nov. 05-06, 2020	Malaviya National Institute of Technology, Jaipur
National level Conference on Recent Advancement in Engineering NCRAE-2020	Sep. 22-23, 2020	College of Technology and Engineering, Udaipur

Establishment of New Labs:

Name of Lab	Year	Department/ Institute
Fabrication & Joining Lab (P.G. & PhD.)	2018-19	Mechanical Engineering, Malaviya National Institute of Technology, Jaipur
Manufacturing Lab (P.G.)	2015-16	Mechanical Engineering, Govt. Engineering College, Ajmer

FDP/STC/Workshops/Seminar Organized:

Title	Category	From	Duration	Institute
Additive Manufacturing for Defence Application (AMDA-2025)	STC	03-03-2025	1 week	MNIT, Jaipur
Additive Manufacturing and 3D Printing (AM & 3DP)	FDP	18-07-2022	2 Week	IIITDM, Jabalpur
Project Engineering and Management	STC	23-09-2019	1 week	CTAE, Udaipur
Life Cycle Analysis for Sustainability	STC	10-06-2019	1 week	MNIT, Jaipur
Planning, Execution and Evaluation of Project Work	STC	11-02-2019	1 week	MNIT, Jaipur
Data Analytics for Engineer	STC	10-12-2018	1 week	MNIT, Jaipur
Green Energy and Technology	Workshop	01-02-2016	1 week	GEC, Ajmer
Science and Technology to save Environment	STC	23-11-2015	1 week	GEC, Ajmer

Administrative Duties:

Designation	From	To	Nature of Work	Organization
Program Co-Ordinator (M. Tech Production)	01-07-2022	31-12-2024	Coordination of departmental Information of M. Tech.	MNIT, Jaipur
Warden	01-11-2019	Till now	Administrative and establishment work of hostel services	MNIT, Jaipur
Website Coordinator	01-07-2019	Till now	Coordination of departmental Information, Website and Annual Report	MNIT, Jaipur
Workshop Coordinator	01-07-2019	Till now	To look after lab related issues	MNIT, Jaipur
Member, Departmental Purchase Committee	01-07-2019	Till now	To look into the matters pertaining to departmental purchase	MNIT, Jaipur
Welding Shop, Faculty In charge	01-07-2019	06-10-2021	Maintenance and establishment of Lab and instruments	MNIT, Jaipur
Head of Department	13-12-2011	30-11-2016	Administrative work related to a department	GEC, Ajmer

Main Coordinator: Academics II and Overall PG Coordinator	14-08-2008	27-01-2011	Coordinating all college level Academic activities and post- graduation student related work	GEC, Ajmer
PG Coordinator	16-06-2008	13-08-2008	Post-graduation students related work	GEC, Ajmer
Chief Proctor	28-01-2011	12-12-2011	All student welfare work	GEC, Ajmer
I/c Principal	02-07-2015	30-11-2016	Handling Institute level Activities	GEC, Ajmer
Equity Action Plan member	02-04-2014	01-03-2016	As a part of TEQIP committee	GEC, Ajmer
NBA accreditation committee member	19-12-2016	13-10-2017	Accreditation related work	GEC, Ajmer
Scrap Disposal Committee	01-01-2014	29-09-2017	Conducting disposal of all scrap of the institute	GEC, Ajmer
Convener Committee for Higher studies	04-03-2016	29-09-2017	Studying the rules and regulations for granting permission for higher studies to faculty members	GEC, Ajmer
Officer In-charge	13-05-2013	04-06-2014	Doing all related work	GEC, Ajmer
Member of Guest Faculty empanelment	23-07-2014	30-08-2015	Work related to empanelment of guest faculty	GEC, Ajmer
Member of anti-ragging squad	09-07-2014	01-05-2015	To keep watch and visit critical areas within college campus	GEC, Ajmer
Convener for disposal of patravalis	29-06-2015	15-07-2016	Study the Note Sheets of Ex-Principal and take decision accordingly,	GEC, Ajmer
Auction Expert of unused materials at IBM Ajmer	04-05-2016	01-06-2017	To act as an expert for auction of unused materials	Indian Bureau of Mines, Ajmer
Convener	01-02-2017	19-10-2017	Departmental Promotion of faculty members	GEC, Ajmer
Convener	06-09-2017	19-10-2017	No Preparing Seniority List of In house Faculty Members	GEC, Ajmer
FM and MOS lab In charge	25-07-2013	20-05-2018	To look after lab related issues	GEC, Ajmer

Outreach Activity:

S. No.	Name of Activity	Activity	Given By	Date
1	Collaborative Researcher	Honorary Adjunct Research Scientist	Honorary Adjunct Research Scientist	June 2022
2	ICRITDME-2021	Session Chair	JECRC Jaipur	2022

3	Unnat Bharat Abhiyaan (UBA)	Village Coordinator Talaria (Tehsil Chaksu)	MNIT, Jaipur	September 27, 2019
4	Blood Donation Camp	Donor	MNIT, Jaipur	September 12, 2019
5	Emerging Trends in Welding Technology & Welding Education	Participant	School of Engineering JNU, Delhi	August 9, 2019
6	3 rd IEOM European International Conferences on Industrial Engineering and Operational Management	Session Chair	Pilsen, Czech Republic	July 23-27, 2019
7	International Day of Yoga 2019	Participant	MNIT, Jaipur	June 21, 2019
8	2 nd International conference on Recent innovations & Technological Development in Mechanical Engineering	Session Chaired	JECRC, Jaipur	April 5-7, 2019
9	National Conference on Recent Innovations in Mechanical Engineering	Session Chaired	Vivekananda Institute of Technology Jaipur	Feb 27, 2019
10	Workshop on Advanced Welding Methodologies for Automotive and Power Industries	Participant	IIT Madras	Feb 15-16, 2019
11	GaBi Workshop and Training Program	Participant	Think step Solutions	2018
12	Short Term Course on Applied Statistics for Experimenters	Participant	MNIT Jaipur	2017
13	Residential Training Programme on Productivity and Competitiveness Measurement for Organizational Excellence	Participant	National Productivity Council Economic Service group	2016
14	National Conference on Renewable Energy Source Sustainable Development: Opportunities and Challenges	Session Chaired	JECRC, Jaipur	2016
15	SAE India student Convention	Participant	SAE-INDIA SKIT Collegiate Club Jaipur	2015
16	Indo German Workshop on Sustainable Manufacturing	Participant	BITS Pilani	2015
17	STC on modeling and decision-making techniques in Engineering and Management	Participant	IIT Delhi	2015
18	2015 International Applied Reliability Symposium	Participant	Relia Soft New Delhi	2015
19	STC on Recent Advancement in Automatic Technology through ICT	Participant	NITTTR Chandigarh	2015
20	Workshop on sharing experiences and good practices on improving transition rate of students	Participant	GCE, Aurangabad	2014
21	Management Capacity Enhancement Program	Participant	IIM Udaipur	2014
22	STTP on Six Sigma tools and Application	Participant	MNIT Jaipur	2013

23	STC on modelling and Simulation	Participant	NITTTR Chandigarh	2013
24	QIP Course on Control Systems	Participant	IIT Bombay	2012

Personal Details:

- Date of Birth: 07-10-1976
- Sex: Male
- Marital Status: Married
- Nationality: Indian
- Passport No.: K3418880

(Dr. Jinesh Kumar Jain)