

Profile Page



Name : Dr Rajeev Trehan

Designation : Associate Professor

Department : Industrial & Production Engg.

Qualification : PhD Industrial Engineering (Dr.B R Ambedkar National Institute of Technology Jalandhar)
M.Tech Industrial Engineering (Dr.B R Ambedkar National Institute of Technology Jalandhar)
B.Tech Mechanical Engineering (Dr.B R Ambedkar Regional engineering College, Jalandhar)

Address : Center of Training and Placement
Dr.B R Ambedkar National Institute of Technology Jalandhar
Jalandhar, punjab - 144005

Email : trehanr@nitj.ac.in

Phone : +91-81465-00951

Research Interests :

Lean, Six Sigma, Productivity Improvement and Advanced Manufacturing

Other Profile Links :

Google Scholar Link :

R trehan [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	Rapid Prototyping Journal	R Chand, VS Sharma, R Trehan, MK Gupta , " A physical investigation of dimensional and mechanical characteristics of 3D printed nut and bolt for industrial applications"
2021	International Journal of Mechatronics and Manufacturing Systems, Vol 14 ,issue 2, Page 164-179	R Chand, VS Sharma, R Trehan , "Investigating mechanical properties of 3D printed parts manufactured in different orientations on Multijet printer"
2021	World Journal of Engineering	R Singh, RP Singh, R Trehan , "Parametric investigation of tool wear rate in EDM of Fe-based shape memory alloy: microstructural analysis and optimization using genetic algorithm"
2021	Instituto de Ingeniería y Tecnología	N Alba-Baena, J Singh, R Trehan , "An experimental study on mechanical properties and wear of A380/nB4C composites fabricated using two different liquid state processes"

2021	International Journal of Productivity and Performance Management	A Sharma, N Bhanot, A Gupta, R Trehan, "Application of Lean Six Sigma framework for improving manufacturing efficiency: a case study in Indian context"
2021	Advances in Materials and Processing Technologies, Vol. 7 , Issue 3, Pages 429-445	MK Singh, R Trehan, A Gupta, "Application of Grey approach to enhance the surface properties during AWJ machining of marine grade Inconel"
2021	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, Vol.235, Issue 3, Pages 333-366	R Singh, RP Singh, R Trehan , "State of the art in processing of shape memory alloys with electrical discharge machining: a review"
2020	International Journal of Process Management and Benchmarking, Vol 10,issue 2, Pages 147-176	VR Sreedharan, R Trehan, M Dhanya, P Arunprasad, "Lean Six Sigma implementation in an OEM: a case-based approach"
2019	International Journal of Six Sigma and Competitive Advantage, Vol.11, Issue 1, P 23-41	R Trehan, A Gupta, M Handa, "Implementation of Lean Six Sigma framework in a large scale industry: a case study"
2018	The TQM Journal, Vol. 30 Issue: 6, pp.650-678,	Raja Sreedharan V., Rajasekar S., Santhosh Kannan S., Arunprasad P., Rajeev Trehan, (2018) "Defect reduction in an electrical parts manufacturer: a case study",
2016	International Journal of Lean Enterprise Research (IJLER), Vol. 2, No. 2, 2016	Execution of single minute exchange of die on corrugation machine in cardboard box manufacturing company: a case study by Gaurav Garg; Ajay Gupta; Rahul S. Mor; Rajiv Trehan
2015	VIVECHAN International Journal of Research, Vol. 6, Issue 1, 2015 pp-70 – 88.,2015	‘A Comprehensive Review of Cost of Quality’, rajeev trehan, R K Garg , Anish Sachdeva
2014	Journal of Environmental Research and Development, Vol.8, No.3A ,January- March, 2014.	Categorization of cost of quality- a study in engineering industry
2014	,ResearchCell: An International Journal of Engineering Sciences, December 2014, Vol. 3,pp-230-237.	‘Cost of quality- a system dynamics approach’ Rajeev Trehan, RK Garg, Anish Sachdeva
2013	Journal of production research & management, Issue 1 Vol 3,2013	Dinesh Kumar, Rajiv Trehan, Gagandeep Singh ‘Operational Modeling of Cutting Parameters Influence on Power Consumption and Surface Roughness CNC Turning of AISI 304’ ,
2012	The business review Cambridge, vol.20, no.2, December 2012	‘Decision making using multicriteria decision making (MCDM)techniques’ Rajeev Trehan and Rohit Vasudeva

Conference Publications :

Year	Conference	Publication
2022	Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020)	R Singh, RP Singh, R Trehan, "Investigation of Machining Rate and Tool Wear in Processing of Fe-Based-SMA Through Sinking EDM"
2021	Sustainable environment and infrastructure	R Singh, R Pratap Singh, R Trehan, "Sustainable engineering approaches used in electrical discharge machining processes: a review"

2017	ICRAME-2017	Gagandeep Singh Raheja, Dr Rajeev Trehan, Dr Amit Bansal The Relationship between quality and quality cost for an OEM auto parts manufacturing industry in Punjab
2016	INTERNATIONAL CONFERENCE ON PRODUCTION AND INDUSTRIAL ENGINEERING	Manoj Kumar Singh , Dr. Rajeev Trehan , Dr. Ajay Gupta "Investigation of process parameters for improvement of surface roughness and MRR of Inconel 625 by Grey-Taguchi methodology during AWJM"
2016	International Conference on Management, Finance, Economics & Entrepreneurship	Rajeev Trehan Cost of quality in Indian engineering Industry : A case study
2013	International Conference on Sustainable Manufacturing & Operations Management	Rajeev Trehan Practices in quality costing : A case study
2013	International Conference on Innovations in Engineering and Technology (ICIET'2013)	Rajeev Trehan Spending Behavior on Components of Cost of Quality: A Case Study
2013	3rd INTERNATIONAL CONFERENCE ON PRODUCTION AND INDUSTRIAL ENGINEERING,	Manish Pant, Rajeev Trehan,Leo mathews,Dr RK Garg LINE BALANCING USING (RPW) TECHNIQUE: A CASE STUDY
2013	3rd INTERNATIONAL CONFERENCE ON PRODUCTION AND INDUSTRIAL ENGINEERING,	Manish Pant, Rajeev Trehan,Leo mathews,Dr RK Garg Root Cause Defect Analysis in a Bicycle Industry for Productivity Improvement
2012	The International Business, Finance & Economics Research Conference	Rajeev Trehan , Rohit Sharma Decision Making using Multi criteria decision making technique
2011	Global Mindset Development in Leadership and Management	Rajeev Trehan A Diagnostic Study of Hand Tools Industry

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
chapter	Optimization Methods in Engineering	Springer, Singapore	RP Singh, R Singh, R Trehan, RK Garg, M Tyagi	DOI: 10.1007/978-981-15-4550-4_15	2021
book	Manufacturing Engineering: Select Proceedings of CPIE 2019	Springer Nature	VS Sharma, US Dixit, K Sørby, A Bhardwaj, R Trehan	2522-5022	2020
book	Service Quality Through the Lens of SAP-LAP Methodology: A Case Study	Springer, Singapore	A Gupta, R Trehan, SK Gandhi	978-981-13-6475-4	2019

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
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Coordinator	Research	Technology Gap study and possible remedial measures for sports goods	TIFAC, Department of Science and Technology, Govt of India, New Delhi	2007	2008	19.85 Lacs	Completed	Dr P K Chatley
co- principal coordinator		Technology gap study for bicycle industry	TIFAC, Department of Science and Technology, Govt. of India			10 lacs	completed	Dr Rakesh Chandra, Dr A Braradwaj and DR J N Chakraborty
Co PI	R&D	‘Studies on wet on wet coating for railway coaches to reduce cycle time of processes’	GS Paints Jalandhar	13-09-2019		10.5 lacs	on going	Dr Jatinder Kumar, Dr Sangeeta Garg

Admin. Responsibilities :

Position Held	Organization	From	To
Head, Centre of Training and Placement	NIT jalandhar	August 2018	till date
Nodal officer TEQIP -III	NIT jalandhar	2-2-2015	till date