

BIO-DATA DR. DAVINDER SINGH



1. Name: DR. DAVINDER SINGH

2. Designation: ASSISTANT PROFESSOR

3. Department: MECHANICAL ENGINEERING

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5. Areas of Specialization: Production and Industrial Engineering

6. Academic Qualifications:

Sr. No.	Degree Held	Year	Board/Univ./Inst.	% of marks	Div./Rank	Subjects Taken
1.	B.Tech	2006	Punjab Technical University, Jalandhar	64.4	1 st	Mechanical Engineering
2.	M.E	2009	Thapar University, Patiala	90.0	1 st /2 nd	Production and Industrial Engineering
3.	Ph.D.	2016	Punjabi University, Patiala			Industrial Engineering

7. Membership of Professional Bodies/Organizations

- a. Life Member – Indian Society of Technical Education
- b. Life Member- Punjab Academy of Sciences

8. Details of Experience:

S.No.	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	RIEIT, Ropar	Lecturer	01.07.2009 to 31.07.2010	Teaching and Research
2.	IET, Bhaddal	Assistant Professor	01.08.2010 to 31.12.2010	Teaching and Research
3.	BGOI, Patiala	Assistant Professor	01.01.2011 to 22.08.2011	Teaching and Research
4.	Punjabi University, Patiala	Assistant Professor	13.12.2011 to till date	Teaching and Research

12. Published Work (Please specify numbers only) :

- a. Research Papers = 19 (International Journals)
- b. Conference/Seminar Presentation = 13 (International and National)
- c. Books = 01 (International Publishers)

13. Thesis Guidance/under guidance

- a. M. Tech.: 59 (completed)
- b. Ph. D.: 2 (completed) / 1 (ongoing)

S.No.	Name	Topic	Supervisor/Co-supervisor	Year of completion
1.	Charanjit Singh	Measuring the Effect of Green Lean Practices on the Performance of Manufacturing Industries in India	Davinder Singh/Jaimal Singh Khamba	2022
2.	Sandeep Singh	Measuring The Performance Of Sugar Industry through Overall Equipment Effectiveness	Jaimal Singh Khamba/Davinder Singh	2023
3.	Ashish Kumar	Fabrication and Slurry Erosion Behaviour of Nanocomposite Ceramic Coatings on Turbine Steel	Davinder Singh/Khushdeep Goyal	Ongoing

14. List of Papers/Courses taught at P.G. and U.G. Level

S. No.	Paper	Class
1.	Engineering Graphics	B.Tech
2.	Basic Thermodynamics	B.Tech
3.	Applied Mechanics	B.Tech
4.	Industrial Quality Control	B.Tech
5.	Machine Drawing	B.Tech
6.	Material Technology	M.Tech
7.	Industrial Automation and Robotics	M.Tech

List of Research Papers Published

A) International Journals: 19

1. Singh S, Khamba JS, **Singh D.** (2022), "Role and scope of overall equipment effectiveness implementation in Indian sugarmill industries: A justified approach" *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, Vol. 236, No. 2, pp. 546-555.
2. Singh, C., **Singh, D.** and Khamba, J.S. (2021), "In quest of green practices in manufacturing industries through literature review", *World Journal of Entrepreneurship, Management and Sustainable Development*, Vol. 17 No. 1, pp. 30-50.
3. Singh, C., **Singh, D.** and Khamba, J.S. (2021), "Analyzing barriers of Green Lean practices in manufacturing industries by DEMATEL approach", *Journal of Manufacturing Technology Management*, Vol. 32 No. 1, pp. 176-198.
4. Singh, G. and **Singh, D.** (2020), "CSFs for Six Sigma implementation: a systematic literature review", *Journal of Asia Business Studies*, Vol. 14 No. 5, pp. 795-818.
5. **Singh, D.**, Khamba, J.S. and Nanda, T. (2019) 'Justification of technology innovation implementation in Indian MSMEs using AHP', *International Journal of Services and Operations Management*, Vol. 32, No. 4, pp.522-538.
6. **Singh, D.**, Khamba, J.S. and Nanda, T. (2017) 'Influence of technological innovation on performance of small manufacturing companies', *International Journal of Productivity and Performance Management*, Vol. 66, No. 7, pp.838-856.
7. **Singh, D.**, Khamba, J.S. and Nanda, T. (2017), 'Structural equation modelling of technology innovation model using AMOS for Indian MSMEs' *International Journal of Productivity and Quality Management*, Vol. 21, No. 1, pp. 72-96.
8. **Singh, D.**, Khamba, J.S. and Nanda, T. (2016), 'Technology Innovation in India MSMEs: A Case Study using SWOT and SAP-LAP Analysis', *Productivity*, Vol 57, No. 1, pp. 43-50.

9. **Singh, D.**, Khamba, J.S. and Nanda, T. (2015), 'Analysis of Major Problems Faced by Small Firms in North India', *International Journal of Engineering Research in Africa*, Vol 15, pp. 150-160.
10. **Singh, D.**, Khamba, J.S. and Nanda, T. (2015) 'Role of Technological Innovation in Improving Manufacturing Performance: A Review', *International Journal of Social, Education, Economics and Management Engineering (WASET)*, Vol. 9, No. 1, pp. 398- 402.
11. **Singh, D.**, Khamba, J.S. and Nanda, T. (2015) 'Exploring the Determinants of Technology Innovation in MSMEs', *International Journal of Engineering Research in Africa*, Vol. 13, pp. 103-115. ISSN 1663-4144.
12. **Singh, D.**, Khamba, J.S. and Nanda, T. (2014) 'Technology Up-gradation Characteristics of Small Firms: A Study in the Region', *International Journal of Business and Management Studies*, Vol. 3, No. 3, pp. 443-449. ISSN 1309-8047.
13. Singh, S. and **Singh, D.** (2014) 'Problems and Prospects of Small and Medium Enterprises in India', *International Journal of Multidisciplinary Engineering and Business Management*, Vol. 2, No. 1, pp. 18-23.
14. **Singh, D.**, Khamba, J.S. and Nanda, T. (2014) 'Factors Contributing Towards Technology Development in Small Firms' World Academy of Science, Engineering and Technology, *International Journal of Mechanical, Industrial Science and Engineering (WASET)*, Vol. 8, No. 1, pp. 235-243.
15. Singh, J. and **Singh, D.** (2014) 'Problems Related to the Financing of Small Firms in India' *International Journal of Innovative Research & Development*, Vol. 3, No. 1, pp. 317-321. ISSN 2278 – 0211.
16. Singh, L., Singh, R., Singh, N.K., **Singh, D.** and Singh, P. (2013) 'An Evaluation of TIG Welding Parametric Influence on Tensile Strength of 5083 Aluminium Alloy' *International Journal of Mechanical, Industrial Science and Engineering (WASET)*, Vol. 7, No. 11, pp. 795-798.
17. **Singh, D.**, Khamba, J.S. and Nanda, T. (2013) 'Technology Innovation Issues Affecting Small Firms Performance' *International Journal of Research in Mechanical Engineering and Technology*, Vol. 3, No. 2, pp. 174-178.
18. Singh, L., **Singh, D.** and Singh, P. (2013) 'A Review: Parametric effect on mechanical properties and weld bead geometry of Aluminium alloy in GTAW' *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)*, Vol. , 6, No. 6, pp. 24-30. ISSN 2278- 1684.
19. **Singh, D.**, Nanda, T. and Singh, T.P. (2009) 'Strategic Alignment of Technological Innovation Initiatives in Cutting Tool Industry in the Region' *International Journal of Technology, Policy and Management*, Vol. 9, No. 4, pp. 358-386.

B) International Conferences: 08

1. Singh, S., Khamba, J.S., **Singh, D.** (2021), “Analyzing the Role of Six Big Losses in OEE to Enhance the Performance: Literature Review and Directions” In: Phanden, R.K., Mathiyazhagan, K., Kumar, R., Paulo Davim, J. (eds) *Advances in Industrial and Production Engineering. Lecture Notes in Mechanical Engineering*. Springer, Singapore, pp. 411-421. Online ISBN-978-981-33-4320-7.
2. Singh, C., **Singh, D.** and Khamba, J.S. (2020), “Exploring an alignment of lean practices on the health and safety of workers in manufacturing industries”, *International Conference on Advances in Design, Materials and Manufacturing*, pp. 6696-6700. doi. <https://doi.org/10.1016/j.matpr.2021.05.116>.
3. **Singh, D.**, Khamba, J.S. and Nanda, T. (2014) ‘Enhancing technological innovation in small firms: Role of collaboration’, *IOP Conf. Series: Materials Science and Engineering*, Vol.65, 012026.
4. Mann, J.S. and **Singh, D.**, (2013) ‘To identify the factors for better performance of MSMEs’, *Proceedings of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, October 3-6, 2013.
5. Kumar, R. and **Singh, D.**, (2013) ‘Effect of change in metal temperature on mechanical properties of rolled steel product’, *Proceedings of the International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, October 3-6, pp. 59-63.
6. Kumar, A. and **Singh, D.**, (2013) ‘Globalization, Problems and Performance of Indian MSMEs’, *Proceedings of the International Conference on Advances in Materials and Manufacturing Technology (AMMT)*, September 20, 2013.
7. **Singh, D.**, Nanda, T., Singla, M.K., Sharma, K. and Kumar, A. (2010) ‘Technological Innovation Characteristics in Small Scale Manufacturing Industries’, *Proceedings of the first International Conference on **Engineering Innovations (ICEI2k10)** – A Fillip to Economic Development*, CIET, Fatehgarh Sahib, India, Feb 18-20.
8. Nanda, T. and **Singh, D.**, (2008) ‘Features of confederation culture to inculcate innovation and creativity in organizations’, *Proceedings of the Fifth International Conference on Business Challenges and Strategies in Emerging Global Scenario (ICBCS’08)*, PCTE, Ludhiana, India, May 30-31, pp.1-8.

C) National Conferences: 05

1. Singh, P. and **Singh, D.**, (2014) ‘To Study the Performance and Growth of MSMEs in India’, *Proceedings of National Conference on Advancements in Simulation Techniques and Experimental Techniques In Mechanical Engineering*, Chandigarh University, Mohali, India, Feb 21-22, ISBN No. 978-81-930789-0-7, pp. 8-13.

2. Singh, S. and **Singh, D.**, (2014) 'Characteristics of Small Firms Affecting Manufacturing Performance', *Proceedings of the TEQIP-2 Sponsored National Conference on Latest developments in Materials, Manufacturing and Quality Control*, GZS PTU Campus, Bathinda, India, Feb 13-14, pp. 282-287.
3. Sharma, K., **Singh, D.** and Singla, M.K., (2010) 'Important areas of development in Mechanical Engineering', *Proceedings of the First National Conference on Global Trends in Mechanical Engineering*, RBIE&BT, Sahouran, India, April 16-17.
4. **Singh, D.** and Nanda, T., (2010) 'Regulatory Support to build competitiveness in Small Scale Industries', *Proceedings of the First National Conference on Global Trends in Mechanical Engineering*, RBIE&BT, Sahouran, India, April 16-17.
5. Nanda, T. and **Singh, D.**, (2008) 'Components of Technology Development Implementation Program for Small Scale Sector', *Proceedings of the Third National Conference on Recent Developments in Mechanical Engineering*, TIET, Patiala, India, Nov 14-15, pp. 91-96.