

BIO-DATA Dr. Rajdeep Singh

1. Name : DR. RAJDEEP SINGH
2. Designation : ASSISTANT PROFESSOR
3. Department : MECHANICAL ENGINEERING
4. Date of Birth : 11.10.1987
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- 6 Areas of Specialization : Production and Industrial Engineering

7. Academic Qualifications:

| Sr. No. | Degree Held | Year | Board/Univ./Inst. | % of marks | Div./Rank | Subjects Taken |
|---------|-------------|------|------------------------------|--------------------------|-----------------|--|
| 1 | B.Tech | 2009 | Ucoe, Punjabi Univ., Patiala | 74.4 | 1 st | Mechanical |
| 2 | ME | 2011 | Thapar University, patiala | 6.96 CGPA | 1 st | Production & Industrial Engineering |
| 3 | Ph.D | 2022 | Punjabi University, Patiala | “A” grade in course work | | Impact of core functional competencies on success of Indian manufacturing industry |

8. Membership of Professional Bodies/Organisations

- i) Life Member – Punjab Academy of Sciences

9. Details of Experience:

| S. No. | Name of the Inst./Employer | Position Held | Duration | Major Job Responsibilities and |
|--------|----------------------------|---------------------|-------------------------|--------------------------------|
| 1. | Punjabi Univ. Patiala | Assistant Professor | 23.12.2011 to till date | Teaching and Research |

10. Published Work (Please specify numbers only) :

- a. Research Papers i) International = 30

11. M.Tech. Students guided:

| S.No | Student name and Regd. No. | Topic | Year |
|-------------|--|--|-------------|
| 1 | Manpreet Singh Dhaliwal 11093006 | Critical Appraisal for implementation of ERP in manufacturing industry | July 2012 |
| 2 | Sukhvir Singh 11093020 | Application of Lean and JIT principles in Supply Chain Management | July 2012 |
| 3 | Jaskanwal Singh Mand 11093023 | Impact Analysis of critical risk factors and operational techniques in Supply Chain Management | July 2012 |
| 4 | Ganagdeep Singh Sodhi 11193023 | Study of Appropriate ERP Strategies in Manufacturing Industries | May 2013 |
| 5 | Tejwant Singh 11193031 | Optimum setting of input parameters using fractional factorial design for controlling sensitization in TIG welding of austenitic stainless steel | May 2013 |
| 6 | Jaspal Singh 11193005 | Comparative Evaluation of Magnetic Abrasives Developed by Microwave sintering | May 2013 |
| 7 | Parminder Preet Singh 11193033 | Experimental Aspects of dilution on mechanical properties and hardness in hard facing of mild steel | May 2013 |
| 8 | Ranjit Singh, Regd. No. 11293005 | Development of submerged arc weldment fluxes for enhanced corrosion resistance of mild steel | August 2014 |
| 9 | Jaswinder Singh, Regd. No. 11173020 | Comparative High-Temperature Corrosion Behavior of D-Gun Spray Coatings on ASTM- SA213-T11 Steel in Molten Salt Environment | August 2014 |
| 10 | Smamrvir Singh Chattha 11393050 | Effect of gas tungsten arc welding parameters of welding properties of aluminium alloy | August 2015 |

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

| S. No. | Paper | Class |
|--------|---------------------------|------------|
| 1. | Automobile Engineering | B.Tech IV |
| 2. | Machining Science | B.Tech III |
| 3. | Strength of Materials | B.Tech II |
| 4. | Mechatronics | M.Tech I |
| 5. | Theory Of Machines Lab | B.Tech III |
| 6. | Strength of Materials Lab | B.Tech II |
| 7 | Machining Science Lab | B.Tech III |

13. Technical Proficiency

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|---------------------------|
| 1. Automobile Engineering |
| 2. Welding |
| 3. Vibration |

14. List of Papers Published

(A) Books

1. Manufacturing competency: case study in manufacturing industries (2017), Chandan Deep Singh, J S Khamba, Rajdeep Singh, LAP LAMBERT Academic Publishing
2. Critical Appraisal for implementation of ERP in manufacturing industries (2017), Chandan Deep Singh, Rajdeep Singh, Harleen Kaur, LAP LAMBERT Academic Publishing
3. Analytical study of the perspectives for implementation of ERP, (2017), Chandan Deep Singh, Rajdeep Singh, Harleen Kaur, LAP LAMBERT Academic Publishing
4. Impact analysis of risk factors and operational techniques in SCM, (2017), Chandan Deep Singh, Rajdeep Singh, Harleen Kaur, LAP LAMBERT Academic Publishing

Research Papers:

1. Chandan Deep Singh, Rajdeep Singh, Jaskanwal Singh Mand and Sukhvir Singh (2013) "Application of Lean and JIT principles in supply chain management" International journal of management research and business strategy (IJMRBS), Vol. 2, No. 1, (ISSN 2319-345X).
2. Chandan Deep Singh, Rajdeep Singh and Manpreet Singh (2013) "Critical appraisal for implementation of ERP in manufacturing industry" International journal of management research and business strategy (IJMRBS), Vol. 2, No. 1, (ISSN 2319-345X).
3. Jaskanwal Singh Mand, Chandan Deep Singh and Rajdeep Singh (2013) "Implementation of critical risk factors in supply chain management" International journal of management research and business strategy (IJMRBS), Vol. 2, No. 1, (ISSN 2319-345X).

4. Smamrvir Singh Chattha, Rajdeep Singh and Lochan Sharma (2015) “To find effects of GTAW parameters on mechanical properties of aluminium alloys” *International Journal for Multi Disciplinary Engineering and Business Management (IJMDEBM)*, Vol. 3. No. 2, (ISSN 2348 – 2249).
5. Rajdeep Singh and Chandan Deep Singh (2015) “Vibration based analysis of defects in rotating shafts using response surface methodology” *International Journal for Multi Disciplinary Engineering and Business Management (IJMDEBM)*, Vol. 3. No. 2, (ISSN 2348 – 2249).
6. Gurpreet Singh, Chandan Deep Singh and Rajdeep Singh (2016) “An Assessment of JIT Initiatives in Manufacturing Industry by Regression Analysis Using ANOVA” *International Journal In Applied Studies And Production Management*, Vol. 2 No. 3, (ISSN 2394-840X).
7. Harinder Singh, Chandan Deep Singh and Rajdeep Singh (2016) “Analysis of Total Productive Maintenance on performance of manufacturing industries” *International Journal In Applied Studies And Production Management*, Vol. 2 No. 3, (ISSN 2394-840X).
8. Singh, R., Singh, C.D. and Singh, T. (2023) ‘Qualitative analysis of core functional competencies in Indian manufacturing industry’, *Int. J. Process Management and Benchmarking*, Vol. 15, No. 3, pp.310–331.
9. Singh, R., Singh, C.D. and Singh, T. (2023) ‘Fuzzy TOPSIS and fuzzy VIKOR-based justification of factors affecting the performance of the manufacturing industry in North India’, *Int. J. Process Management and Benchmarking*, Vol. 15, No. 3, pp.400–420.

Publications in International conferences

1. Chandan Deep Singh and Rajdeep Singh (2012) “Study of Design of Gating System for a Die-Casting Die : A Review” *International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, Punjab Technical University, Kapurthala, Punjab, October 5-7, 2012.
2. Chandan Deep Singh, Rajdeep Singh, Harvinder Singh Dhaliwal, Ramandeep Singh and Manpreet Singh (2012) “Analytical study of the perspectives for implementation of ERP” *International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, Punjab Technical University, Kapurthala, Punjab, October 5-7, 2012.
3. Chandan Deep Singh, Rajdeep Singh, Jaskanwal Singh Mand and Sukhvir Singh (2012) “Study of Critical Risk Factors, Lean and JIT principles in Supply Chain Management” *International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering*, Punjab Technical University, Kapurthala, Punjab, October 5-7, 2012.

4. Karanpreet Singh, Chandan Deep Singh and Rajdeep Singh (2012) “Design and development of electrode coating for hardfacing and applications” International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, Punjab Technical University, Kapurthala, Punjab, October 5-7, 2012. (Presented only)
5. Gagandeep Singh, Kamal Khanna, Chandan Deep Singh and Rajdeep Singh (2013) “Study of appropriate ERP strategies in manufacturing industries” International Conference on

Advancements and Futuristic Trends in Mechanical and Materials Engineering, Punjab Technical University, Kapurthala, Punjab, October 3-6, 2013.

6. Chandan Deep Singh, Jaimal Singh Khamba, Rajdeep Singh and Navdeep Singh (2014) “Exploring manufacturing competencies of a two wheeler manufacturing unit” 27th International Conference on CAD/CAM, Robotics and Factories of the Future 2014, IOP Conf. Series: Materials Science and Engineering 65 (2014) 012025 doi:10.1088/1757-899X/65/1/012025. *Pflanz.* 181:155-164.