Curriculum Vitae

Dr. Jagjeet Singh Chatha

Designation: Assistant Professor

Department: Mechanical Engineering,
Punjabi University, Patiala,
India

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Academic Qualifications

Course	*Subject/Topic*	*Session*	*University*
Ph. D.	*Analysis of metallurgical and mechanical properties of welded joint of dissimilar steel grades fabricated with standard and modified rotary friction welding*	*2018- 2022*	*RIMT University, Mandi Gobindghar Punjab, India*
M. Tech.	*Mechanical Engineering*	*2012-2014*	*Giani Zail Singh Punjab Technical University, Bathinda, Punjab, India*
B. Tech.	*Mechanical Engineering*	*2008 -2012*	*Punjabi University, Patiala, Punjab, India*

Additional Qualification

Course	*Subject/Topic*	*Session*	*University*
MBA (CC)	*Operation Management*	*2022-2024*	*Punjabi University, Patiala, Punjab, India*

Teaching Experiences

Designation	*Nature of Appointment*	*Department*	*Institute/University*	*Session*
Assistant Professor	*Full Time/ Permanent*	*Mechanical Engineering*	*Punjabi University, Patiala, Punjab, India*	*November 2015 to present*
Lecturer	*Semester Based/ Consolidated*	*Mechanical Engineering*	*MIMIT College, Malout, Punjab, India*	*July 2015 to November 2015*

Administrative Positions Held

Position Held	*Nature of Appointment*	*Institute/ Department*	*Level*	*Duration*
Warden (Boys Hostel)	*Additional Charge*	*Dean Student Welfare, Punjabi University*	*University Level*	*2017 to 2023*

Area of Research Interests

Welding, Materials, Corrosion, Manufacturing

Subjects Taught

Manufacturing Processes, Manufacturing Technology, Industrial Materials and Metallurgy, Industrial Quality Control, Drug Abuse and Prevention

Supervised Students

M. Tech: Guided: 06 Under Guidance:02

Ph. D: Under Guidance: 01

Published Research Papers

1. Gaba, N., Sidhu, S. S., & Chatha, J. S. (2025). Role of porosity in 3D printed scaffolds for tissue engineering applications. *Journal of Emerging Trends in Engineering, Sciences and Technology, 8*(1), 98–105.
2. Chatha, J. S., Sidhu, S. S., & Singh, P. (2025). Optimization and characterization of friction stir welding parameters for aluminium alloys 6061and 6081. *Journal of Sustainable Development Innovations, 2*(3), 30–35.
3. Verma, N., Sidhu, S. S., & Chatha, J. S. (2025). A review on Kaizen implementation in North Indian manufacturing industries. *Journal of Management and Engineering Sciences, 2*(2), 90–98.
4. Chatha, J. S. (2025). Strength and microstructural analysis of bi-metallic rotary friction welds between stainless steel 304 and 316. *Journal of Management and Engineering Sciences, 2*(1), 49–56.
5. Chatha, J. S. (2024). Review of friction stir welding technique. *International Research Journal of Modernization in Engineering*.
6. Chatha, J. S. (2024). A comprehensive study of friction stir processing technique. *International Journal for Multidisciplinary Research, 6*(4).
7. Verma, N., Sidhu, S. S., Chatha, J. S., & Bali, S. (2022). To study the implementation of Kaizen in Northern Indian manufacturing industries. In *Recent Advances in Mechanical Engineering* (pp. 465–474). Springer.
8. Chatha, J. S., Kohli, P. S., & Handa, A. (2021). Exploration of rotary friction welding technique. *Strojnícky časopis – Journal of Mechanical Engineering, 71*(2), 53–60.
9. Chatha, J. S., Shahi, A., & Handa, A. (2020). Stir welding parameters effect on flat plates weld joints: A review. *Materials Today: Proceedings, 43*, 158–163.
10. Chatha, J. S., Handa, A., & Bedi, T. S. (2020). Strength analysis of rotary friction welded joints of dissimilar steel grades. *Materials Today: Proceedings, 38*, 242–247.
11. Shahi, A., & Chatha, J. S. (2020). Biofuels as an alternative: A short review. *International Journal of Creative Research Thoughts, 8*(3), 2201–2203.
12. Chatha, J. S., Bedi, T. S., & Handa, A. (2019). Rotary friction welding of dissimilar materials.

International Journal of Recent Technology and Engineering, 8(4), 10361–10369.

13. Singh, B., Chatha, J. S., & Chauhan, P. (2019). Evaluation of mechanical properties of friction welded stainless steel alloy 304 and aluminium alloy 6063 joint. *SSRG International Journal of Mechanical Engineering, 6*(12), 11–14.
14. Chatha, J. S., Shahi, A., & Handa, A. (2019). Friction stir processing: A review. *International Journal of Emerging Technologies and Innovative Research, 6*(5), 1163–1166.
15. Chatha, J. S., Rai, P. S., & Kumar, R. (2016). A review on electro discharge machining processes and its effect on surface roughness of various machined components. *Materials Today: Proceedings* (MMT1001), *Manufacturing and Quality Control*.
16. Chatha, J. S., Rai, P. S., & Kumar, R. (2016). Analysis of friction stir welded joints of similar metals. *Materials Today: Proceedings* (MMT1002), *Manufacturing and Quality Control*.
17. Chatha, J. S. (2014). A review on the effects of friction welding parameters on mechanical properties of friction welded joints. *International Journal of Advance Research in Science and Engineering, 3*(1).
18. Chatha, J. S. (2014). Reviews on the effects of friction stir welding parameters on mechanical properties of dissimilar metal weld joints. *International Journal of Advance Research in Science and Engineering, 3*(1).