

## FACULTY PROFILE



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### **Professional Qualification**

<b>Qualification</b>	<b>Title</b>	<b>Organization/ Institute</b>	<b>Year</b>
<b>Ph.D.</b>	Mechanical Engineering (Welding)	SRM-IST, Chennai, Tamil Nadu, India	2022
<b>M. Tech.</b>	Mechanical Engineering (Manufacturing System Engineering)	S.L.I.E.T, Longowal, Punjab, India	2010
<b>B.Tech.</b>	Mechanical Engineering	M.I.E.T, Meerut, India	2008

### **Publications (Journals & Conferences):**

1. C. Pandey, M. M. Mahapatra, P. Kumar, **S. Kumar**, S. Sirohi, Effect of post weld heat treatments on microstructure evolution and type IV cracking behaviour of the P91 steel welds joint, *Journal of Materials Processing Technology*, 266, 2019, 140-154 (Impact Factor- 6.162).
2. C. Pandey, M.M. Mahapatra, P. Kumar, P. Kumar, N. Saini, J.G. Thakare, **S. Kumar** Study on effect of double austenitization treatment on fracture morphology tensile tested nuclear grade P92 steel, *Engineering Failure Analysis*, 96, 2019, 158–167 (Impact Factor- 3.634).
3. **S. Kumar**, C. Pandey, A. Goyal, A microstructural and mechanical behavior study of heterogeneous P91 welded joint, *International Journal of Pressure vessels and Piping*, 185, 2020, 104128 (Impact Factor- 2.028).
4. **S. Kumar**, C. Pandey, A. Goyal, Role of dissimilar IN617 nickel alloy consumable on microstructural and mechanical behavior of P91 welds joint, *Archives of Civil and Mechanical Engineering*, 20, 2020, 1-27 (Impact Factor- 4.369).
5. **S. Kumar**, S. Kumar, C. Pandey, A. Goyal, Effect of post-weld heat treatment and dissimilar filler metal composition on the microstructural developments, and mechanical

- properties of gas tungsten arc welded joint of P91 steel, *International Journal of Pressure vessels and Piping*, 191, 2021, 104373 (Impact Factor- 2.028).
6. **S. Kumar**, C. Pandey, A. Goyal, Microstructure and mechanical behavior of P91 steel dissimilar welded joints made with IN718 filler, *International Journal of Pressure vessels and Piping*, 190, 2021, 104290 (Impact Factor- 2.028).
  7. **S. Kumar**, V. Yadav, S.K. Sharma, C. Pandey, A. Goyal, P. Kumar, Role of dissimilar Ni-based ERNiCrMo-03 filler on the microstructure, mechanical properties and weld induced residual stresses of the ferritic/martensitic P91 steel welds joint, *International Journal of Pressure vessels and Piping*, 193, 2021, 104443 (Impact Factor- 2.028).
  8. C. Pandey, N. Kumar, S. Sirohi, T. Rajasekaran, **S. Kumar**, P. Kumar, Study on the effect of the Grain Refinement on Mechanical Properties of the P92 Welded joint, *Journal of Materials Engineering and Performance*, 31, 2022, 4385-4404 (Impact Factor- 2.036).
  9. S. Sirohi, A. Sauraw, A. Kumar, **S. Kumar**, T. Rajasekaran, P. Kumar, R.S. Vidyarthi, N. Kumar, C. Pandey, Characterization of Microstructure and Mechanical Properties of Cr-Mo Grade P22/P91 Steel Dissimilar Welds for Supercritical Power Plant Application, *Journal of Materials Engineering and Performance*, 2022, 1-15 (Impact Factor- 2.036).
  10. S. Sirohi, A. Kumar, S. Soni, G. Dak, **S. Kumar**, A. Świerczyńska, G. Rogalski, D. Fydrych, C. Pandey, Influence of PWHT Parameters on the Mechanical Properties and Microstructural Behavior Of Multi-Pass GTAW Joints of P92 Steel, *Materials(MDPI)*,15(12), 2022, 4045 (Impact Factor- 3.748).
  11. **S. Kumar**, S. Sirohi, S.M. Pandey, D. Bhatt, C. Pandey, Effect of Single Bevel Groove Geometry on the Impact Strength of Dissimilar Welded Joint of P22 and P91 Steel, *Sustainability(MDPI)*, 14 (18), 2022, 11739 (Impact Factor- 3.88).
  12. A. Jayant, **S. Kumar**, Simulation Modeling of Integrated Supply Chain Logistics Network, *Advances in Intelligent and Soft Computing (AISC 131)*, 2011, IIT Roorkee.
  13. **S. Kumar**, C. Pandey, A. Goyal, Filler composition on the mechanical behaviour of dissimilar welds joint, *Conference: International conference on Future Learning Aspects of Mechanical Engineering (FLAME-2020)*, 2020, at Amity School of Engineering and Technology, Amity University Uttar Pradesh, Noida.
  14. **S. Kumar**, S. Sirohi, J.G. Thakare, B. Adhithan, C. Pandey, Role of Mo in the nucleation of intermetallic laves phase, *International Conference & Exposition on Mechanical, Material and Manufacturing Technology (ICE3MT 2020)*,2020, at CVR College of Engineering, Hyderabad.
  15. S. Sirohi, P. Kumar, A. Gupta, **S. Kumar**, C. Pandey, Role of Ni-based filler on charpy impact toughness of the P91 welds joint, *International Conference on Materials Processing and Characterization (ICMPC)*,2020, at IIT Indore.
  16. **S. Kumar**, S. Sirohi, C. Pandey, A. Kumar, Characterization of laser welded P22 steel weldments, *International Conference on Recent Advances in Mechanical Engineering (ICRAM)*,2022, IIT Jodhpur.

17. Lakkimsetti Yasho Narayan, Vishva Bhanu, Sachin Sirohi, **Sanjeev Kumar**, Dariusz Fydrych, Chandan Pandey, Microstructure anomaly due to the heat from the laser welding process and its effect on the mechanical behavior of the dissimilar welded joint between P92 steel and Inconel 625 for AUSC boiler applications, **The International Journal of Advanced Manufacturing Technology**, 2025 (Impact Factor-3.1)

**Awards and Achievements**

- Received Best Teacher Award in 2025 from SRMIST Delhi NCR Campus, Modinagar

**Work Experience:**

- Working as Assistant Professor, Mechanical Engineering Department, from August 2010 to till date at SRM Institute of Science & Technology, Delhi NCR Campus Modinagar Ghaziabad, Uttar Pradesh, India

**Professional Memberships:**

- Institute of Research Engineers and Doctors (IRED)
- International Association for Engineers (IAENG)