

FACULTY PROFILE



Name: Dr. Sanjeev Kumar

Designation: Assistant Professor

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Professional Qualification:

Ph. D	Mechanical Engineering	SRM Institute of Science and Technology (formerly known as SRM University), Kattankulathur, 2022.
M.Tech	Manufacturing System Engineering	Sant Longowal Institute of Engineering Technology(Deemed to be University), Punjab, 2011
B.Tech	Mechanical Engineering	Uttar Pradesh Technical University, Lucknow 2008.

Publications (Journals & Conferences):

- N. Kumar, P. Kumar, R. Upadhyaya, S. Kumar, C. Pandey, Assessment of the Structural Integrity of a Laser Weld Joint of Inconel 718 and ASS 304L, *Sustainability(MDPI)*, 15(5), 3903 (2023).
- 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), 11739 (2022).
- S. Sirohi, A. Kumar, S. Soni, G. Dak, S. Kumar, A. Swierczynska, 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), 4045 (2022).

- 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*, 1-15 (2022)
- 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, 4385-4404 (2022).
- 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, 104373 (2021).
- 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, 104290 (2021).
- 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, 104443 (2021).
- 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, 104128 (2020).
- 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, 1-27(2020).
- C. Pandey, M.M. Mahapatra, P. Kumar, S. Kumar, S. Sirohi, Effect of post weld heat treatments on microstructure evolution and type IV cracking behavior of the P91 steel welds joint, *Materials Processing Technology* 266, 140-154 (2019)
- C. Pandey, M.M. Mahapatra, P. Kumar, P. Kumar, N.Saini, J.G.Thakrae, S. Kumar, Study on effect of double austenitization treatment on fracture morphology tensile tested nuclear grade P92 steel, *Engineering Failure Analysis* 96, 158-167(2019)
- A. Jayant, S. Kumar, Simulation Modeling of Integrated Supply Chain Logistics Network, *Advances in Intelligent and Soft Computing (AISC 131)*, 2011, IIT Roorkee.

- 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.
- S. Sirohi, S. Kumar, C. Pandey, Characterization of damage in thermal barrier coating under different thermal cycle, *International Conference & Exposition on Mechanical, Material and Manufacturing Technology (ICE3MT 2020)*, 2020, at CVR College of Engineering, Hyderabad.
- 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.
- 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.
- S. Sirohi, S. Kumar, A. Kumar, A. Kumar, C. Pandey, To investigate the effect of process parameters on the dissimilar welded joint of AA7075 and Cu, *International Conference on Future Trends in Materials and Mechanical Engineering (ICFTMME)*, 2022, SRM Institute of Science and Technology, Delhi NCR Campus, Ghaziabad (U.P.)

Awards and Achievements



Workshops/Seminars/FDPs

- One Week faculty development programme on "RECENT TRENDS IN MECHANICAL ENGINEERING" organized by SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, during May 23- 28, 2022.
- One Week faculty development programme on "Advanced Security Analytics and Machine Learning" organized by SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, during April 18- 23, 2022.
- One Week faculty development programme on "Automotive Friction Materials" organized by SRM Institute of Science and Technology, Kattankulathur Campus, Chennai, during December 13- 17, 2021.
- One Week AICTE Training and Learning (ATAL) Academy faculty development programme on "Novel Materials" organized by SRM IST, Delhi-NCR Campus, Ghaziabad, during August 23-27, 2021.
- One Week faculty development programme on "Perl Scripting" organized by Lords Institute of Engineering and Technology, Hyderabad, during June 10-14, 2020.

- One Week faculty development programme on "Purely the Fundamentals of Mechanical Engineering" organized by SRM Institute of Science and Technology, Kattankulathur Campus, Chennai , during June 01- 05, 2020
- One Week faculty development programme on "Advanced Energy Conversion Technologies" organized by SRM Institute of Science and Technology, Kattankulathur Campus, Chennai, during May 27- 31, 2020.

Work Experience:

Working as Assistant Professor, Department of Mechanical Engineering, SRM Institute of Science and Technology (formerly Known as SRM University), August 2010 onwards.

Professional Memberships:

- International Association of Engineers, 2016
- International Computer Science and Engineering Society (ICSES), 2019
- Institute of Research Engineers and Doctors , 2019