

Dr. Sanjay Singh Samant

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Research Interests

- ❖ Fracture Mechanics (Fracture toughness/High and low cycle fatigue/Fatigue crack growth)
- ❖ Finite Element Method, Extended Finite Element Method
- ❖ Ultrasonic NDE of Composite Armors

Educational Qualifications

S. No.	Examination	Institution /University	Year of passing
1.	Ph. D (MECHANICAL)	Indian Institute of Technology, Roorkee	2021
2.	M.TECH (MACHINE DESIGN)	Indian Institute of Engineering Science & Technology Shibpur, West Bengal (Formerly BESU Shibpur West Bengal)	2009
3.	B.TECH (MECHANICAL)	Uttar Pradesh Technical University, Lucknow	2007

Professional Experience

S. No.	Position Held	College/University	Responsibility	From	To
1.	Assistant Professor	Graphic Era University, Dehradun	Teaching/Research	13/10/2009	19/07/2010
2.	Assistant Professor	Lovely Professional University, Dehradun	Teaching/Research	2/08/2010	3/12/2010
3.	Assistant Professor	G.B Pant Engg. College, Pauri	Teaching/Research	3/02/2011	Till Date

Conference Organized

- ❖ Co-convener, 1st National conference on Recent Advances in Mechanical Engineering, GBPEC Pauri, July 8-9, 2013
- ❖ Co-convener, 2nd National conference on Recent Advances in Mechanical Engineering, GBPEC Pauri, Sept 26-27, 2014

Short Term Course Organized

- ❖ Co-cordinator, TEQIP-Short Term Course on Advanced Manufacturing Technology, 08-12 June 2015
- ❖ Coordinator, TEQIP-Short Term Course on Advances in Materials and Manufacturing, Dec 24-28, 2018

Awards/Achievement

- Best poster presentation on Research Scholar day (May, 2018) at MIED IIT Roorkee

Journal Publications

- S.S. Samant, V. B. Pandey, I. V Singh, R.N. Singh, *Effect of double austenitization treatment on fatigue crack growth and high cycle fatigue behavior of modified 9Cr-1Mo steel*, ***Mater. Sci. Eng. A***. 788, 139495 (2020) .
- S.S. Samant, I. V Singh, R.N. Singh, *Effect of Thermo-mechanical treatment on high temperature tensile properties and ductile brittle transition behavior of modified 9Cr-1Mo steel*, ***Metallurgical and Materials Transaction A***. (2020) 3869-3885 (2020).
- V. B. Pandey, S.S. Samant, , I. V Singh, B. K. Mishra, *An improved methodology based on continuum damage mechanics and stress triaxiality to capture the constraint effect during fatigue crack propagation*, ***Int. Journal of Fatigue***, 140, 105823 (2020) .
- A. Bisht, S. S. Samant, S. Jaiswal, K. Dasgupta, *Quantifying nanodiamonds assisted exfoliation of graphene and its effect on toughening behavior of composite structure*, ***Composite Part A***, 132, 105840 (2020) .
- S.S. Samant, I. V Singh, R.N. Singh, *Influence of intermediate rolling on mechanical behavior of modified 9Cr-1Mo steel*, ***Mater. Sci. Eng. A***. 738 (2018) 135–152 (2018).
- S.S. Samant, I. V Singh, R.N. Singh, *Effect of Tempering and Rolling on Fatigue Crack Growth Behavior of Modified 9Cr-1Mo Steel*, ***J. Mater. Eng. Perform.*** 27 (2018) 5898–5912.
- S.S. Samant, Amit Joshi, KKS Mer, *Ultrasonic imaging of ballistically impacted composite armour*, ***Theoretical and applied research in Mechanical engineering***, 2 (2013) 79-84
- Amit Joshi, S.S. Samant, KKS Mer, *Modelling surface finish on WEDM using RSM*, ***Theoretical and applied research in Mechanical engineering***, 2 (2013) 74-78
- Sudeep Kumar, S. Samant, *Layer Configuration of Composite Armor*, ***Applied research in Mechanical engineering***, 3 (2013) 102-108
- M.K.Pathak, KKS Mer, Pawan Kumar Pant, S.S.Samant, *Application of thermal barrier coatings on the performance of parameters of diesel engines*, ***International journal of research in Mechanical Engineering and Technology***, 3 (2013) 68-72
- Akarsh Verma, S.S.Samant, *Inspection of hydrodynamic lubrication in Infinitely long journal bearing with oscillating Journal velocity*, ***Journal of Applied Mechanical Engineering***, 5 (2016) 2-7

National/ International Conferences

- S. S. Samant*, I. V. Singh and R. N. Singh, *Improvement on high temperature mechanical properties of Modified 9cr-1mo steel through intermediate hot rolling*, ***Structural Integrity Assessment, Springer Singapore***, 129-139 (2020)
- S. S. Samant*, I. V. Singh and R. N. Singh, *Improvement on high temperature mechanical properties of P91 steel*, INCAM, 2017, MNIT Allahabad

- S. Samanta, S. S. Samant, A. Banerjee, N. Nayak and D. Datta, *Ultrasonic imaging of impacted composite armour*, *Proceedings of the National Seminar & Exhibition on Non-Destructive Evaluation*, NDE 2009, December 10-12, 2009 pp 10-12
- Saurabh Ahar, Sanjay Samant, *A review on ballistic effectiveness of composite armor*, NCRAME-2014, ISBN-978-93-84869-38_0/2014, pp 290-297
- Akarsh Verma,S.S.Samant, *Numerical analysis of hydrodynamic lubrication in Infinitely long journal bearing with oscillating Journal velocity*, NCRAME-2013
- S. Samant, M.K.Pathak, Pawan Kumar Pant, *Selection of ultrasonic features for estimation of impact induced damage, inclusion and cracks in composite material through ultrasonic imaging*, NCRAME-2013