

## **Dr. Vineet Kumar**

**Assistant Professor**

**Dept. of Mechanical & Automation Engineering**

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**Area of Interest:** Fatigue, Fracture, Finite Element Analysis (FEM) and Cryo-rolling.

### **Educational Qualification:**

- ❖ Ph.D (Design Engineering) from Indian Institute of Technology Roorkee, (Uttarakhand) in January 2015.
- ❖ M.Tech. (Design & Production Engineering) from G.B. Pant University of Agril. & Technology Pantnagar in January 2005.
- ❖ B.Tech. Production Engineering from G.B. Pant Univ. of Agril. & Technology Pantnagar. U.S.Nagar, (Uttarakhand) in 2000.

**Teaching Experience:** 8.5 years

**Industrial Experience:** 2.0 years

### **Paper Published**

- ❖ Investigation of tensile behaviour of cryorolled and room temperature rolled 6082 Al alloy (2017), *Materials Science and Engineering A*, Vol. 691, pp. 211-217.
- ❖ Improved fracture toughness of cryorolled and room temperature-rolled 6082 Al alloy (2014), *Acta Metallurgica Sinica*, Vol. 27, pp. 359-367.
- ❖ XFEM, Crack Growth Examination of Cryo-Rolled (CR) 6082 Al Alloys (2014), *International Journal of Emerging Technology and Advanced Engineering*, ISSN 2250-2459, Volume 4, pp.264-271.
- ❖ Experimental Investigation of Fatigue Behavior of CR and RTR 6082 Al-alloy (2014), *Procedia materials Science Journal*, Vol. 6, pp. 1919-1926.
- ❖ Examination of fracture toughness ( $K_{IC}$ ) of rolled 6082 Al alloy. *Material Engineering and Performance*, Vol. xx, pp. xxx. 2017 (Under Review).

### **Conferences:**

- ❖ Tensile strength and impact toughness properties of cryorolled 6082 Al alloy 23- 24 May 2013 in National Institute of Technical Teachers' Training and Research Chandigarh.

- ❖ Improved fracture toughness behavior of cryorolled 6082 Al alloy, 23-26 October 2013 in Delhi technological university Delhi (STME 2013).
- ❖ Tensile testing and finite element simulation of cryorolled 6082 Al alloys 12-15 November 2013 in IIM Varansi U.P.
- ❖ Experimental evaluation of fatigue life of the room temperature rolled 6082 Al alloy IIT Roorkee Shaharanpur Campus U.K.
- ❖ XFEM, Crack Growth examination of Cryo-Rolled (CR) 6082 Al Alloys, Advanced developments in Engineering and Technology, 15-16 February 2014 in Lord Krishna college of Engineering Ghaziabad.
- ❖ Experimental Investigation of Fatigue Behavior of CR and RTR 6082 Al-alloy, 3rd International Conference on Materials Processing and Characterization (ICMPC 2014) Hyderabad.
- ❖ Flow stress of 6082 Al alloy at elevated temperature, (NCMST-14) 10-11 March 2014 in MMMEC. Gorakhpur. U.P.

#### **Extra-Curricular Activity**

- Six month Convener for annual Sport 2016-2017 in G.B. Pant Govt Engineering College New Delhi.
- Six month worked as a Coordinator in Product Design and Development Cell in ABESIT (2015). Ghaziabad UP.
- Hostel Badminton Captain (2003-2004) in G.B.P.U.A.T Pantnagar Dist U.S. Nagar
- 1<sup>st</sup> position in Inter Hostel Badminton championship Double (2003-2004) in G.B.P.U.A.T Pantnagar.
- 1<sup>st</sup> position Badminton Double (2004-2005) in G.B.P.U.A.T Pantnagar.
- Certificate of merit in cross country race (2004-2005) in G.B.P.U.A.T Pantnagar.
- Directors Award for improved teaching performance (2008) in ABES engineering college Ghaziabad.
- Directors Award for improved teaching performance in (2009), ABES engineering college Ghaziabad.

**(Dr. VINEET KUMAR)**