

# Vinay Kumar Yadav

PhD - Machine Design (*Pursuing*)

Indian Institute of Technology Roorkee

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## Research Interests:

Fatigue & Fracture Analysis, Friction Stir Welding, Design of machine Element, Strength of Material, Material Science

## Educational Detail:

Name of Exam Passed	Name of Institution/University	Duration of Course(Year)	Full Time/ Correspondence	Date of Passing	Percentage of Marks obtained
Matriculation	UP Board	1	Full Time	2005	61.00
Intermediate	UP Board	1	Full Time	2007	65.20
B.Tech	GBTU(Now AKTU)	4	Full Time	2012	78.12
M.Tech	MNNIT Allahabad	2	Full Time	2014	89.50

## Current Study:

- To find Out the Near-threshold Property of Friction stir welded Aluminum alloy at various stress ratio i.e. R-ratio.
- To predict the fatigue life (low & high) of welded component at various mean stress level.

## Publications:

- Yadav, V.K.,** Gaur, V. & Singh, I.V., 2020. Effect of post-weld heat treatment on mechanical properties and fatigue crack growth in welded AA-2024. *Material Science & Engineering: A*, 779, p.139116. (**SCI Impact Factor: 4.652**)
- Yadav, A.K., **Yadav, V.K.** and Srivastava, S., 2014. Thermal Buckling Behavior of angle-Ply Laminated Composite Plate with Multi-Pole Hole. *American Journal of Material Science & Application*, 2(3), p.35.

## Conferences/Proceedings:

- Vinay Kumar Yadav,** A.K. Upadhyay and K.K. Shukla., 2014. “Nonlinear static analysis of functionally graded sandwich skew plates”. *Proceeding of International conference on multi-functional materials, Structures and application (ICMMSA)*, p.93-95.

## Professional Experience:

From	To	Designation	Institute
01 August 2014	12 June 2018	Assistant Professor	HITM Agra

**Summer Internship:** Organisation – UPRVUNL Anpara Sonebhadra (UP) - 231225

- Project Title – 2x500 MW ‘B’ TPS, Boiler Maintenance Division – II.

**Institute Project:** Institute – United college of Engineering & Research Naini Allahabad (UP) - 211010

- Electromagnetic Piston Engine i.e. To Run a Vehicle Without Fuel

## Courses Taught:

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### Under Graduate Level

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- Machine Design
  - Material Science
  - Measurement & Metrology
  - Engineering Drawing
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### Teaching Assistantship: (At IIT Roorkee)

- Mechanics of Material Lab
- Engineering Drawing

### Workshop:

- Attended “**AICTE approved**” Four-week Faculty Development Programme on **Use of ICT in Education for Online and Blended Learning** Conducted by Indian Institute of Technology Bombay from May 2nd, 2016 to July 10th, 2016.
- Participated in **QIP/CEP Short Term Course** organized by “**AICTE, New Delhi**” on “**Total Quality Management**” at IIT (BHU) Varanasi during July 13-17, 2017.
- Participated in “**National Level Industry-Institute Symposium on Turbo Machines (NIST-2014)**” organized by Department of Applied Mechanics at Motilal Nehru National Institute of Technology Allahabad on April 5-6, 2014
- Attended Two-week faculty induction development programme conducted by **SGI CENTRE FOR CONTINUING EDUCATION** at Hindustan Institute of Technology & Management, Agra from 18th December, 2014 – 1st January, 2015.

### References:

- **Prof. Indra Vir Singh**  
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- **Prof. Vidit Gaur**  
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