

Curriculum Vitae

Ritesh Kumar Patel

Assistant Professor

Department of Mechanical Engineering
Indira Gandhi Institute of Technology, Sarang
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Research Interests

- Finite Element Analysis
- Fatigue and Modal analysis

Educational Qualification

<i>Educational Qualification</i>	<i>Institute Name</i>	<i>Board/University</i>	<i>CGPA/%</i>	<i>Passing Year</i>
Master of Technology (Machine Design)	NIT Kurukshetra	Deemed University	8.67	2014
Bachelor of Engineering (Mechanical)	RSR Rungta College of Engineering and Technology, Bhilai	CSVTU Bhilai	8.35	2012

Employment

<i>Organization</i>	<i>Position held</i>	<i>Duration</i>
Indira Gandhi Institute of Technology, Sarang	Assistant Professor	July 2017 - Present
Government College of Engineering, Bilaspur	Lecturer	July 2016 – Sep 2016
Sardar Vallabhbhai National Institute of Technology, Surat (SVNIT Surat)	Teaching Assistant	Jan 2015 – May 2016

Research and Publication

2. Ghosh G. and **Patel, Ritesh Kumar**, A non-linear model for interfacial layer's thermal conductivity of nanofluid, *International Journal of Advanced Mechanical Engineering*, ISSN 2250-3234 Volume 8, number 1 (2018), pp. 9-16
1. **Patel, Ritesh Kumar**, Angra, Surjit and Mittal, Vinod Kumar, Comparison of materials for Universal tractor connecting rod using ANSYS software. *Applied Mechanics and Materials*, Vols. 592-594 (2014) pp 1015-1019. doi:10.4028/www.scientific.net/AMM.592-594.1015.

Conference and Workshop Attended

12. Pani, A. R., **Patel, R. K.** and Ghosh, G. K., Buckling analysis and material selection of connecting rod to avoid hydrolock failure, Proceedings of Materials and Manufacturing Methods, NIT Trichy, 2019.(Accepted)
11. Kumar, A, Ghosh, G. K., **Patel, R. K.** and Panda, S., Numerical Simulation of Weld Nugget in Resistance Spot Welding Process, Proceedings of Materials and Manufacturing Methods, NIT Trichy, 2019.(Accepted)
10. **Patel, R. K.**, Ghosh G. and Pradhan, S. R., Fatigue and Modal analysis of crankshaft using ANSYS Software, *Proceedings of 19th ISME Conference on Advances in Mechanical Engineering*, NIT, Jalandhar 2018.
9. Ghosh G. and **Patel, Ritesh Kumar**, Experimental investigation of resistance spot welding on mild steel (G3302) and stainless steel (SS202) Sheets, conference proceedings: *International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems (CDAMIES)*, NIT Trichy, 2018. (ISBN: 978-93-86954-00-8)
8. **Patel, Ritesh Kumar**, Angra, Surjit and Mittal, Vinod Kumar, Finite Element Analysis of Connecting Rod Using CAE Tools, *National Conference on Recent Advances in Manufacturing (RAM)*, SVNIT Surat, 2014.
7. Participated in TEQIP-III sponsored short term course on “Solid Modeling and Motion Studies Using Solidworks” (SMMSS-2018) organized by Department of Mechanical Engineering, NIT Rourkela (June 18-22, 2018).
6. Participated in One week TEQIP-III sponsored Workshop on “Active Learning, Autonomy, Academic Governance and R & D” organized by Indian Institute of Technology, Roorkee (28 May – 1 June 2018)
5. Participated in TEQIP-III sponsored short term course on “Nanomaterials Science and Technology” organized by Department of Metallurgical and Materials Engineering, IGIT, Sarang (March 12-16, 2018).
4. Participated in TEQIP-III sponsored workshop on “Outcome Based Accreditation for UG/PG Engineering Program” organized by IGIT, Sarang (March 6-7, 2018).
3. Participated in two days workshop on “Non-Destructive Testing” organized by IIMT Group of Colleges Greater Noida.
2. Participated two days “Entrepreneur Workshop” in NIT Kurukshetra.
1. Participated in “MITBOTS” robotics workshops organized by Indian Institute of Technology Delhi.

Teaching Experience

IGIT, Sarang: (July 2017 – present)

- **Subject taught/teaching:**

Engineering Mechanics (one semester), Production and Operation management (one semester)
QMR (two semesters), Basic Mechanical Engineering (one semester)

GEC, Bilaspur: (July 2016 – Sep 2016)

- **Subject taught/teaching:**

Strength of materials, Machine design

SVNIT Surat: (Jan 2015 – May 2016)

- **Subject taught/teaching:**

Basic Mechanical Engineering (two semesters), Strength of materials (one semester)
Machine design (one semester)

Administrative Responsibilities

- Deputy Centre Superintendent in Exam section at IGIT Sarang (Nov 2017 – present)
- TEQIP Co-coordinator at IGIT Sarang (June 2018 – present)
- Faculty in charge, Dynamics lab, Mechanical Department (Sep. 2017-present)
- Departmental NBA team member (Oct. 2018 - present)

Research Guidance

- M.Tech- 01 completed, 02(Continuing)

Member of Professional Bodies

IRED, IAENG

Industrial Training and Project Details

- 4 Weeks Industrial Training at “**Bhilai Steel Plant**” (03/05/2010 to 29/05/2010)
- 4 Weeks Industrial Training in “**NSPCL**” (NTPC – **SAIL POWER COMPANY PVT. LTD.**), Bhilai from (01/06/2011 to 30/06/2011)
- "Steering Control headlight system" at **RSR Rungta college of Engineering and Technology**, Bhilai as Major Project.

Achievements

- Gate qualified in 2011- 2014 and 2017 among these my highest gate score is 583 and 97% (2014).
- Achieve 3rd position during B.E. class in 1st year.

Skills

- **Soft Skill:** Positive and learning attitude, Willingness to learn, Honest, Motivated.
- **Software Skills:** ANSYS 14.0 Workbench, CATIA, Solid works, Pro-E Wildfire 4.0.

Personal Details

Father's Name & occupation	Mr. Patiram Patel & Farmer
Mother's Name & occupation	Mrs. Neelgiri Patel & House wife
Date of Birth	5 th Sep, 1990
Gender	Male
Marital Status	Unmarried
Language Known	English, Hindi (mother tongue)
Permanent Address	Village-Kashidih, Post-Latesara, Thana-Chandrapur, Tehsil-Dabhara, District-Janjgir Champa, Pin No.-495692(CG)

Declaration

I hereby declare that all the above given information is true to the best of my knowledge.

Date: _____

Ritesh Kumar Patel