

# CURRICULUM VITAE

**Name:** Dr. Bipin Kumar

**Father's Name:** Madan Mohan Prasad

**Present Position:** Assistant Professor

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**DATE OF BIRTH:** 06/12/1985

**Present Address:** Dept. of Mechanical Engg., NIT Jamshedpur – 831014 (Jharkhand)



## EDUCATIONAL QUALIFICATION:

S. No.	Degree	Board/University	Year
1.	Ph.D	IIT(ISM) Dhanbad	2016
2.	M.Tech	NIT Jamshedpur	2010
3.	B.Sc Engg.	BIT SINDRI, Dhanbad	2008

**Ph. D Thesis Topic:** Vibro-acoustic behaviour of thin plate with attached discrete patches and point masses with variable thickness.

**M. Tech Thesis Topic:** Secondary Processing and Characterisation of Cu-Ni-Si based alloys.

**RESEARCH INTERESTS:** Vibration, Structure Acoustic.

**RESEARCH AWARDS/FELLOWSHIPS RECEIVED:** MHRD Scholarship (M.Tech, Ph.D)

## RESEARCH PUBLICATIONS (With Full Details):

- **Acoustic Response of Thin Plate with Discrete Patches with Variable Thickness in Water Medium.** Journal of Vibration Engineering & Technologies, Oct – 2018, DOI: 10.1007/s42417-018-0046-z, SCI Expanded Index.
- **Burst strength analysis of gas turbine disc based on deformation characteristics.** AIP Conference Proceedings, Sept – 2018, <https://doi.org/10.1063/1.5058253>, Scopus Index.
- **Finite element modelling and analysis of the burst margin of a gas turbine disc using an area weighted mean hoop stress method.** Engineering failure Analysis, 90 (August 2018) 425-433, SCI Index.
- **Free Vibration Analysis of Rhombic Plate with Central Crack.** International Journal of Acoustics and Vibration, 22 (2017) 481-492, SCI Expanded Index.

- Acoustic response of clamped isotropic plate with discrete patches and point masses having different thickness variation. Journal of Vibro-engineering, 18(2016) 2587-2600, Scopus Index.
- Finite Element modeling and analysis of free vibration of a square plate with side cracks. Differ Equ Dyn Syst, DOI: 10.1007/s12591-015-0241-2, Scopus Index.
- The effects of attached discrete patches and point masses on Eigen values and sound radiation of a rectangular plate, J.Inst.Eng.India Ser.c., DOI: 10.1007/s40032-014-0130-4.

**Patent Filed: A method and A system for estimating burst margin of rotating disc.  
Docket No. 40332, Jan 2019.**

**PAPER SUBMITTED IN SCI JOURNALS: 2**

**NATIONAL CONFERENCES:**

- Effect of pre – existing crack on free vibration of rhombic plates. Aspects of Mechanical Engineering and Technology for Industry – 2014, NERIST, Arunachal Pradesh.
- The effect of attached discrete patches and point masses on Eigen values of a rectangular plate. NCRAE – 2013, NERIST, Arunachal Pradesh.

**INTERNATIONAL CONFERENCES:**

- Influence of a crack on the vibration of rectangular isotropic plates. International conference on Industrial, Mechanical and production engineering: Advancements and current Trends -2014, MANIT Bhopal.
- Impact of Multiple cracks on the free vibration of Mindlin Plates. International conference on Advance in Design and Manufacturing – 2014, NIT Trichy.

**RESEARCH PROJECTS/Consultancy Projects: Design of crushing equipment for domestic purpose. (NID Project, Amount -1 Lakh).**

**CONFERENCE/WORKSHOP ORGANIZED: MACHINES AND MECHANISM – 2019, 17-22 June 2019.**

**Ph. D. Supervised (With Full Details, Ongoing): Chandan Kumar (2018RSME001), Topic: Vibration of plates.**

**MEMBER OF EDITORIAL BOARD OF THE JOURNALS: -NA-**

**TEACHING EXPERIENCE:**

<b>Position Held</b>	<b>Institution</b>	<b>From</b>	<b>To</b>
Assistant Professor	NIT Jamshedpur	May – 2018	Till Now
Assistant Professor	BIT Sindri, Dhanbad	Feb -2018	May - 2018
Assistant Professor	Govt. Engg. College, Chaibasa	Jan - 2018	Feb – 2018
Assistant Professor	CCET Bhilai, Chhattisgarh	July – 2017	Dec – 2017
Assistant Professor	SBBS University, Jalandhar	Dec- 2016	June – 2017
Assistant Professor	DIT University, Dehradun	Oct – 2016	Nov – 2016
Assistant Professor	NIT Sikkim	Dec – 2011	July – 2012
Assistant Professor	MIT Bikaner	July- 2011	Dec- 2011
Assistant Professor	B A College of Engg.,	July – 2010	June - 2011

**AWARDS, HONOURS & RECOGNITIONS: - NA-**

**REVIEWER OF INTERNATIONAL JOURNALS AND BOOKS: -NA-**

**MEMBER OF PROFESSIONAL ACADEMIC BODIES: International Association of Engineers,  
ID - 194571**

**INVITED TALKS/SEMINARS GIVEN: -NA-**

**Any Other Information: -NA-**