

Faculty Profile

1. Name: Jitendra Nath Mahto
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BIT Sindri, Dhanbad-828 123 (Jharkhand)



6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1	B.E	Mechanical	BIT Mesra, Ranchi
2	M.Tech.	Heat Power	BIT Sindri, Dhanbad
3	Ph. D	Thermal system	VBU Hazaribag

7. Area of Specialization: Thermal Engg.

8. Ph.D (Guided): Nil

9. Subjects Taught:

I) UG: - Engineering Graphics, Thermodynamics, EM, Power Plant Engg,

Operations Research etc.

II) PG: - Analysis of thermal power cycles, Steam Engineering etc.

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1.	Assistant Professor	BIT Sindri	11.09.06	17.02.2021
2.	Associate Professor	BIT Sindri	18.02.2021	Till date

II) Research Experience: NA

Sl. No.	Position held	Name of Organization	from	to

III) Industrial Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Control Panel Engineer	TVNL	Jan, 2002	Aug, 2006

11. Publications:

I) International Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
1.	Material of Structure affecting the Frequency Analysis using FEM Package	IJMIE	Volume 1, Issue 4	2012	76-78
2.	Displacement Analysis of Cantilever Beam using FEM Package	IJMET	Volume 4, Issue 3	2013	75-78
3.	Variation of crack propagation in cantilever beam under free vibration`	IJSTE	Vol. 2, Issue-12	2016	250-254.
4.	Experimental analysis of propagation of crack in brass cantilever beam under forced vibration	IJMET	Volume 7 Issue 5	2016	316-320
5.	Comparative analysis of crack propagation in vibrating cantilever beams of brass and Al	IJRET	Volume 5, Issue 10	2016	185-188.

6.	Experimental analysis of propagation of crack in aluminium cantilever beam using FEM package	IJSET	Volume 4 Issue 5	2016	791-793.
7.	Design and CFD thermal analysis of ship`s radar frame	IJMERR	Volume 3 Issue 2	2014	395-398
8.	Experimental investigation on the various factors which influences the fatigue-life of brass materials	IJCER	Volume 04, Issue 7	2014	28-38
9.	Experimental investigation of forced Circulation Solar air heater along with Integrated Solar Collector and Phase Change Mat.(Paraffin Wax)	IJSRES	Volume 1 Issue 4	2014	50-60
10.	Experimental investigation of brazed plate heat exchanger for small temperature difference``	IRJET	Volume 4 Issue 8	2017	287-293
11.	To study the performance of ribs in double pass jet solar air heater: A Review	IJRAR	Volume 6 Issue 4	2019	442-457
12.	To Study the performance of double pass absorber plate with jet plate solar air heater.	IJRAR	Volume 6 Issue 4	2019	914-921
13	A detailed review on battery cooling system for Electric vehicle.	2022 1 st IEEE DOI: 10.1109/ICIDEA5 3933.2022.997005 5	Volume 1	2022	45-50
14.	Study of pollution in Arabian sea: Monitoring and Marine environment	EJMCM	Volume 09 Issue 03	2022	2579-2589
15.	A fabrication and characterization of ESP reinforced polymer matrix composites: A	IJRTSM	Volume 7 Issue 9	2022	72-77

	Review				
16	Enhancement of solar still productivity: an experimental approach,	IEEE 2023 https://doi.org/10.1109/ASET56582.2023.10180550		2022	
17.	Fabrication and Investigation of Mechanical Behaviors of TiB ₂ Reinforced AMCs.	Metallurgy Material Engineering	Volume 77	2023	563-570
18.	Mechanical, water absorption and tribological behavior of eggshell powder-reinforced Bakelite composites	Biomass Conversion and Biorefinery		2023	
19.	Fatigue strength of drilled glass fiber/epoxy laminates for bone fracture fixation.	Journal of Science	Volume 36 Issue 3	2024	1451-1459

II) International Conference:

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
1.	Neuro Fuzzy study of crack growth Rate for a vibrating copper cantilever beam	Computational and Experimental methods in Mech. Engg.	Deptt. Of Mech. Engg. GLBITM, Greater Noida	2017	
2.	A review on Thermal performance Analysis of shallow solar pond integrated with phase change materials	International conference on advances and soft computing applications in design and manufacturing	NIT Patna	2018	
3.	A study of correlation between oil properties and its 2FTIR spectra in deteriorating engine oil.	ICMAE-22	South Asia Institute of for Research and Publications, Mumbai	2022	58-64

III) National Journal:

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages

IV) National Conference :

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages

12. Patents (Filed / Granted) NA

Sl. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Status (Filed / Granted)
1.	Dr. P. K. Singh, Mr.N.S.K.Singh, D.K.Sharma, Dr. S.K. Mishra. Dr. Pankaj Kumar, Dr. J.N.Mahto, Dr. R.K.Nayak	Ultrasonic assisted portable equipment for multi-layer anti reflective coating	410573-001	2024	Granted

13. Conference/ Workshop/Seminar/ Organized

Sl. No.	Title of Seminar / Conferences / Short – term Courses	Name of Coordinator	Funding / Sponsoring Agency	Date of Seminar / Conferences / Short – term Courses	No. of Participants
1.	`One week workshop in `Recent Advances in Manufacturing`	JN Mahto RK Nayak	TEQIP-III	27 th Nov.- 1 st Dec.2018	38

2.	``Advancement in Mechanical Engineering``	Dr. JN Mahto Dr. SK Choudhary	TEQIP-III	December 15-19,2020	85
3.	Mechanical Engineering - Emerging Technologies	Dr. JN Mahto Dr. Chandan Kumar	TEQIP-III	24-29 May, 2021	155

14. Symposium/ Workshop/Seminar/ Attended

Sl. No	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
1.	Development of Personal & Professional Effectiveness	16-24, Dec,2006	XRLI, Jamshedpur
2.	Pedagogy-I	14.10.08 to 19.10.08	B.I.T. Sindri
3.	Effective Teaching	30.07.08 to 03.08.08	B.I.T, Mesra, Ranchi
4.	Pedagogy- II	14.10.2008 to 19.10.2008	BIT Sindri
5.	Non Conventional machining Processes	20.10.08 to 24.10.08	NITTTR , Kolkata
6.	Faculty Development Programme in Entrepreneurship	27 th Dec,2011 to 7 th Jan. 2012	KGVK, Ranchi
7.	Machining with CNC Turning Centre	02.07.12 to 06.07.12	NITTTR, Kolkata
8.	Performance Enhancement Skills	July 23 to Aug, 03,2012	B.I.T. Sindri
9.	Personality Development	Oct. 26 to Nov. 06,2015	B.I.T. Sindri
10.	Development of Mechanical Engineering Laboratory Experiments	05.06.2017 to 09.06.2017	NITTTR, Kolkata
11.	Role of Technical Institutions in implementation of community development programme	28.06.2017 to 07.07.2017	NITTTR, Kolkata
12.	Summer Training Program on Active Learning	June18-22, 2018	IIT, Gandhinagar
13.	Real-World Application of Distributed Constraint Optimization Techniques and Autonomous Systems-RADCOPAS-2018.	24 th – 28 th September, 2018.	BIT Sindri

14.	Emerging Trends and Technology in Mechanical Engineering	8 th -12 th July,2019	BIT Sindri
15.	Essentials for NX Designers	4 - 10 Feb,2020	BIT Sindri, Dhanbad, (Siemens)
16.	Entrepreneurship	06.05-2020 to 24.6.2020	BIT Sindri in collaboration with BITSANA
17.	STTP on Green Building,Energy efficiency and Energy Policy for Sustainable Future	08-13 June, 2020	DEE, Assam Sc. & Tech. and GIMT Guwahati
18.	Advanced Simulation Process	11-17 June,2020	BIT Sindri, Dhanbad, (Siemens)
19.	Synchronous Modeling & Parametric Design	18-20 June,2020	BIT Sindri, Dhanbad, (Siemens)
20.	Environmental Crisis and Sustainable Development	01-05 July,2020	NIT Kurukshetra & GEC Bikaner
21.	Nanotechnology and Functional Materials	17-22 August, 2020	S V College of Engg. Tirupati
22.	Robcad	27 Oct.-7th Nov.- 2020	BIT Sindri, Dhanbad (Siemens)
23.	Online Professional Development Training Programme on Mindful Leadership	1-5 Feb,2021	IIM Bodh Gaya
24.	Advances in Manufacturing(AIM-2021)	15-19 June, 2021	Deptt. of Mech. Engg. BIT Sindri

15. Administrative Position Held:

S. No.	Position Held	From (date/month/year)
1.	Assistant Prof. In-Charge, Examination	05-04-2010 to 10.10 2017
2.	Assistant Prof. In-Charge, Academic	16.10.2017 to 04.10.2018
3.	Hostel Superintendent	08.10.2012 to 14.02.2017
4.	Prof. In –Charge, Gardening	16.02.2017 to 25.10.2021
5.	Assistant Prof. In-Charge, Examination	06.10.2018 to 29.08.2019

6.	Professor In-charge, Academic	30.08.2019 to till date
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16. Award / Recognition Bestowed on Faculty (State / National / International)

17. Members of Professional Bodies:

- I. Life member, The Institution of Engineers
- II. Life Member, The Indian Society for Technical Education

Dr. Jitendra Nath Mahto