

# Faculty Profile

1. Name: Dr. Dhaneshwar Mahto

2. Department: Mechanical Engineering

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5. Office Address Mechanical Engineering Department  
BIT , Sindri, Dhanbad  
Jharkhand -828123

6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1	BE	Mechanical	BIT, Mesra, Ranchi, Jharkhand
2	ME	Heat Power	BIT, Mesra, Ranchi, Jharkhand
3	Ph.D.	Mechanical	SHIATS, Allahabad
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7. Area of Specialization: Heat Power Conversion,

8. PhD (Guided): 01 (Awarded)

9. Subjects Taught:

I) UG: - Thermodynamics, Internal Combustion Engine, Heat Power conversion, Power Plant, Refrigeration and Air-conditioning

II) PG: - Advance Refrigeration and Conditioning, Theory and Design of Internal Combustion Engine, Modern Power Plant Engineering

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Associate Professor	BIT Sindri	24/02/2021	Continue
2	Assistant Professor	BIT Mesra Ranchi	1/07/2003	23/02/2021
3	Associate Professor	BIT Mesra, Ranchi	20/11/2001	30/6/2003

II) Research Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Assistant Professor	BIT Mesra, Ranchi	20/02/2006	23/02/2021

III) Industrial Experience:

Sl. No.	Position held	Name of Organization	from	to
1	Graduate Trainees	Kalyani Engg. Pvt. Ltd.	20/04/2000	8/10/2001

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	Effect of addition of di-tert butyl peroxide (DTBP) on	International Journal of Hydrogen Energy	46	2021	9595-9612

	performance and exhaust emissions of dual fuel diesel engine with hydrogen as a secondary fuel				
2	Analysis of ignition delay by taking Di-tertiary butyl peroxide as an additive in a dual fuel diesel engine using hydrogen as a secondary fuel,.	International Journal of Hydrogen Energy	45,	2020	14806-14820
2	Mahua (Madhuca Indica) oil: A potential source for biodiesel production in India ,	Carbon – Sci. Tech.,	8	2016	68-73
3	Meshless Analysis of Functionally Graded Plate with Different Algebraic Shear Deformation Theories	International Journal for Innovative Research in Science & Technology,	2	2016	107-111
4	Effective Utilization of Flat Plate Collector in Cooling and Heating	International Journal of Applied Engineering Research	10	2015	10559-10966
5	Performance improvement of combined cycle(Dual pressure HRSG) using mechanical refrigeration, ,	International Journal of Applied Engineering Research	9	2014	22539-22550
6	Waste heat utilization of vapour compression cycle,	International Journal of Scientific and Research Publication	4	2014	
7	Effect of air cooling on simple combined cycle performance	Applied Mechanics and Materials		2014	1487-1492
8	Parametric analysis of combined cycle power plant using inlet vapour compression cycle, Volume 4, Issue 2, February 201	International Journal of Emerging Technology and Advanced Engineering,	4	2014	616-618
9	Exergy Analysis of combined cycle power	International Journal of Mechanical Engineering and	12	2014	

	plant using steam jet inlet cooling”	Computer Applications,			
10	Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive	Industrial Crops and Products	58	2014	251-258
11	Thermodynamic and thermo-economic analysis of combined cycle with inlet fogging,	Applied Thermal Engineering	51	2013	413-424
12	Thermodynamic analysis of cooled blade gas turbine cycle with inlet fogging,	International Journal of Engineering Research and Technology	3	2010	431 – 440.
13	Thermodynamic Analysis of combined cycle using inlet air cooling,	LAP LAMBERT Academic Publishing	ISBN: 978-3-659-72107-6	2015	
14	Manufacturing of Biodiesel from Mahua (Madhuca Indica) Oil,	<a href="#">Biofuels and Bioenergy Springer Proceedings in Energy ,BICE2016</a>	ISBN 978-3-319-47255-3	2016	261-269

## 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	Study of solar operated thermoelectric portable refrigerator for medical purpose : An experimental approach,	International Conference on Recent Advances in Mechanical Engineering Research and Development, ICRAMERD 2020 Siksha 'O'		2020	

		Anusandhan University, Orissa			
2	Analysis of evaporative cooling of inlet air on gas turbine cycle performance,	International conference on Energy International Conference on Materials and Information Technology, ICEMIT-2017, AMITY University, Ranchi, Jharkhand		2017	
3	Performance evaluation of pump less vapour absorption system,	International conference on Energy Materials and Information Technology, ICEMIT-2017, AMITY University, Ranchi, Jharkhand		2017	
4	Effect of gas turbine inlet temperature on combined cycle,	International Conference on Recent Innovations in Engineering and Technology, 19-20 April 2014, GITA BBSR. Orissa		2014	
5	Thermodynamic analysis & simulation of gas turbine cycle with inlet fogging	International Conference on Energy Engineering Pondicherry Engineering College, Puducherry, India.		2009	259 – 263.
6	Performance of the turbojet, turbofan engines with variable properties	International Conference on Energy Engineering Pondicherry Engineering College, Puducherry,		2009	319 – 324

### III) National Journal :

Sl. No.	Title of the paper	Name of the journal in which publication has been made	Vol/No.	Publication Year	Pages
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#### IV) National Conference :

Sl. No.	Title of the paper	Name of the Conference in which publication has been made	Vol/No.	Publication Year	Pages
1	Thermal Analysis of Thermoelectric Refrigeration System and its Improvement,	Recent advances in Mechanical Engineering & Science, RAMES-2020, LNCT Groups of College, Bhopal.		2020	
2	Thermodynamic analysis of combined cycle using inlet cooling”	National conference on Research and Innovations in Mechanical Engineering (RIME-2014) March 05-06, 2014, TIT college Anand Nagar , BHEL, Bhopal M.P. India		2014	

#### 12. Patents (Filed / Granted)

S. No.	Name of the Inventor	Title of the Invention	Application / Patent No. (As applicable)	Year	Status (Filed / 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

#### 14. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
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1	Recent Advances in PCM Based Cooling Technology, (GIAN Course),	11Nov- 15 Dec 2017.	School of Mechanical Sciences, IIT Bhubaneswar,
2	Use of ICT in Education for Online and Blended Learning,	2 <sup>nd</sup> June- 10July,2016	IIT Bombay
3	Engineering Mechanics	26 <sup>Th</sup> Nov - 06Dec, 2013	IIT Bombay
4	Short term Training Program on basic Matlab , ,	24– 01July 2013	BIT Mesra Ranchi
5	Faculty Development Programme on CAD&FEM, Sponsored by MHRD/AICTE,	21st July to 2nd August 2008	MNNIT Allahabad

15. Administrative Position Held:

S. No.	Position Held	From (date/month/year)

16. Award / Recognition Bestowed on Faculty (State / National / International)

17. Members of Professional Bodies: