

RESUME

Dr. Dhaneshwar Mahto
Associate Professor
B.I.T. Sindri, Dhanbad
Jharkhand- 828123

Personal Details:

Name : Dr. Dhaneshwar Mahto
Father's Name : Late Balram Mahto
Date of Birth : 13-12-1974
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Professional Qualification

1. B.E. (Mech.) from *Birla Institute of Technology Mesra, Ranchi* in the year of 1997 .
2. M.E. (Mech.) Specialization in Heat Power from *Birla Institute of Technology, Mesra, Ranchi*, in the year of 2000.
3. Doctor of philosophy on the topic of "*Thermodynamic and Thermo economic Analysis of Combined Cycle with Inlet Fogging*", at Sam Higginbottom University of Agriculture, Technology and Sciences(SHUATS), Deemed to university, Allahabad, in the year of 2011.

Experiences:

1. Organization : - B.I.T, Sindri, Jharkhand
Designation : - Associate Professor
Duration : - 24/02/2021 to continuing.
2. Organization : - Birla Institute of Technology, Mesra, Ranchi
Designation : - Assistant Professor
Duration : - 20/11/2001 to 23/02/2021

Administrative Experiences:

1)BIT Sindri, Dhanbad

- 1) Prof. In charge Academic
- 2) Hostel Warden of Hostel 14
- 3) PG Coordinator, Mechanical Engineering Department
- 4) Prof. In charge, Refrigeration and Air conditioning Lab

2) BIT Mesra, Ranchi

- 1) Associate Incharge of Air conditioning Management
- 2) Incharge of Refrigeration and Air conditioning Lab
- 3) In-charge Mechanical Engineering Department at Allahabad campus
- 4) In-charge B. Tech part time course at Allahabad campus
- 5) Member of proctorial/disciplinary committee of institute.

Ph. D Guided

- 1) Chandra Bhushan Kumar, Investigation on the performance of Dual Fuel Diesel Engine by Addition of Ditet Peroxide and Hydrogen as a secondary Fuel, at BIT , Mesra , Date of Award 09/07/2021

Published Papers:

International Journal:

- 1) D. Mahto, R. Ranjan, S.K. Choudhary, J.N. Mahto, Enhancement of solar still productivity: an experimental approach, IEEE 2023, <https://doi.org/10.1109/ASET56582.2023.10180550>
- 2) V. Kumar, D. Mahto , Comparative investigation of pumpless vapour absorption system using a high and low grade of energy, International Journal of Ambient Energy, Taylor & Francis, 06 September 2021, PP 5554 -5559, <https://doi.org/10.1080/01430750.2021.1969269>
- 3) C.B. Kumar, D.B. Lata, D. Mahto, Effect of addition of di –tert butyle peroxide (DTBP) on performance and exhaust emission of dual fuel diesel engine with hydrogen as a secondary fuel, International Journal of Hydrogen Energy, Vol. 46, 24 February 2021, PP 9595-9612 , <https://doi.org/10.1016/j.ijhydene.2020.12.129>
- 4) C.B. Kumar, D.B.Lata, D. Mahto, Analysis of ignition delay by taking Di- tertiary- butyl peroxide as an additive in a duel fuel diesel engine using hydrogen as a secondary fuel, International Journal of Hydrogen Energy, 45, April 2020
- 5) Utkarsh, A. Enam, D. Mahto, A. Kumar, Mahua (Madhuca Indica) oil: A Potential Source for Biodiesel Production in India, Carbon science& Technology, Carbon –Sci 8/3(2016) PP 68-73, ISSN 0974-0546,
- 6) R. Kumar, D. Mahto, J. Singh, Bending Response of FGM Plate under Sinusoidal Line Load, IPASJ International Journal of Mechanical Engineering, Vol. 4, Issue 3, March 2016, PP 35-43, ISSN 2321-6441,
- 7) R. Kumar, D. Mahto, J. Singh, Meshless Analysis of Functionally Graded Plate with Different Algebraic Shear Deformation Theory, International Journal for Innovative Research in science and Technology, Vol. 2 Issue 8, Jan 16, PP 106- 111, ISSN 2321-6441,
- 8) Lord J. Nayak, D. Mahto” Effect of air cooling on simple combined cycle performance” Applied Mechanics and Materials Vols. 592-594(2014) pp 1487-1492
- 9) L. J. Nayak, D. Mahto “Parametric analysis of combined cycle power plant using inlet vapour compression cycle” International Journal of Emerging Technology and Advanced Engineering, Volume 4, Issue 2, February 2014
- 10) K. Sourav, D. Mahto” Exergy Analysis of combined cycle power plant using steam jet inlet cooling” International Journal of Mechanical Engineering and Computer Applications, Vol2, Issue 2, March – April 2014
- 11) D. Mahto, Priti Rani, Sumit Mishra, Gautam sen” Microwave assisted synthesis of polyacrylamide grafted soya peptone and its application as water soluble adhesive” Industrial Crops and Products 58(2014) 251-258
- 12) D. Mahto, Subashish Pal “Thermodynamic and thermo economic analysis of combined cycle with inlet fogging”, Applied thermal engineering 51(2013) 413-424

- 13) D. Mahto, Md. Tariq, A. Srivastava “Thermodynamic analysis of cooled blade gas turbine cycle with inlet fogging”, international journal of engineering research and technology volume 3, number 3 (2010), pp. 431 – 440.

International Conference & Proceeding:

- 1) Vikash Kumar, Sumit Kumar, Dhaneshwar Mahto , Performance evaluation of pumpless vapour absorption system, International conference on Energy Materials and Information Technology, ICEMIT-2017, AMITY University, Ranchi, Jharkhand
- 2) Sumit Kumar, Vikash Kumar, Dhaneshwar Mahto , Thermal analysis and performance evaluation of Peltier Modules, International conference on Energy Materials and Information Technology, ICEMIT-2017, AMITY University, Ranchi, Jharkhand
- 3) Veenit Kumar, Dhaneshwar Mahto , Analysis of evaporative cooling of inlet air on gas turbine cycle performance, International conference on Energy Materials and Information Technology, ICEMIT-2017, AMITY University, Ranchi, Jharkhand
- 4) L.J. Nayak, D. Mahto “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
- 5) D. Mahto, Md. Tariq, N. Agrawal, A. Patharia “Thermodynamic Analysis & Simulation of Gas Turbine Cycle with Inlet Fogging” Proceeding of the International Conference on Energy Engineering Pondicherry Engineering College, Puducherry, India. , 7-9 January, 2009, pp. 259 – 263
- 6) Md. Tariq , D. Mahto , N. Agrawal, A. Patharia “Performance of the Turbojet, Turbofan Engines with Variable Properties” Proceeding of the International Conference on Energy Engineering Pondicherry Engineering College, Puducherry, India. , 7-9 January, 2009, pp. 319 – 324.

National conference & Proceeding:

- 1) L.J. Nayak, K. Sourav, D. Mahto “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
- 2) D. Mahto, K. Sourav “Effect of gas turbine blade cooling in performance of combined cycle” National conference on Research and Innovations in Mechanical Engineering (RIME-2014) March 05-06, 2014, TIT college Anand Nagar , BHEL, Bhopal M.P. India
- 3) K. Sourav, L.J. Nayak, D. Mahto “Parametric analysis of combined cycle power plant using steam jet 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
- 4) N.K. Mahto, V. Pandey, D. Mahto “Automation of mechanical design transformer” National conference on Research and Innovations in Mechanical Engineering (RIME-2014) March 05-06, 2014, TIT college Anand Nagar , BHEL, Bhopal M.P. India
- 5) T. Kumar, L.J. Nayak, D. Mahto “Thermodynamic study of combined cycle performance with solar powered vapour absorption refrigeration system” National conference on Research and Innovations in Mechanical Engineering (RIME-2014) March 05-06, 2014, TIT college Anand Nagar , BHEL, Bhopal M.P. India

Books/Books chapter

- 1) M. Choudhary, D. Mahto , Study of Solar Operated Thermoelectric Portable Refrigerator for Medical Purpose : An Experimental Approach, Current Advances in Mechanical Engineering, 2021,PP, 203-215
- 2) C.B. Kumar, D.B.Lata, D. Mahto, Experimental Analysis of Ignition Delay in Dual – Fuel Diesel Engine with Secondary Fuel, Advances in Smart grid Automation and Industry 4.0, 2021
- 3) Thermodynamic Analysis of combined cycle using inlet air cooling, LAP LAMBERT Academic Publishing, 2015, ISBN: 978-3-659-72107-6
- 4) Manufacturing of Biodiesel from Mahua (Madhuca Indica) Oil ,Biofuels and Bioenergy Springer Proceedings in Energy ,BICE2016, pp 261-269 , ISBN 978-3-319-47255-3

NPTEL - AICTE Courses

- 1) 12-week course on Energy Conversation and Waste Heat Recovery
- 2) 12-week course on Biomass Conversion and Biorefinery

FDP Attended

- 1) Two-week FDP on “Entrepreneurship” organized by innovation and incubation center, BIT Sindri, Dhanbad and sponsored by BIT Sindri Alumni Association of North America (BITSAANA) from 5th – 15th July 2023
- 2) One week FDP on Electric Vehicle and Simulation organized by SKYY RIDER Intuition from AUG 8th to 12th 2022.
- 3) One week FDP on Recent Advances in Mechanical Engineering (RAME-2021), Organized by Department of Mechanical Engineering, BIT Sindri, Dhanbad from 25th Oct to 29th Oct, 2021
- 4) One week FDP on Advances in manufacturing (AIM-2021) Organized by Department of Mechanical Engineering, BIT Sindri, Dhanbad from 15th June to 19th June, 2021
- 5) One week FDP on Mechanical Engineering – Emerging Technologies (MEET-2021) Organized by Department of Mechanical Engineering, BIT Sindri, Dhanbad from 24th May to 29th June, 2021
- 6) One week online faculty development program on, Outcome Based Education for the AICTE Approved Institutions of UTs of J&K and Ladakh, organized by the National Institute of Technology Srinagar , from March 22nd to 26th 2021

FDP Organized

- 1) Organized one-week online FDP on Recent Advancement in Mechanical Engineering (RAME – 2021) from Oct 25th to 29th, 2021 at BIT, Sindri, Dhanbad
- 2) Organized one-week online FDP on Mechanical Engineering Emerging Technologies (MEET – 2021) from May 24th to 29th, 2021 at BIT, Sindri, Dhanbad

Short Term Training Program

- 1) Recent Advances in PCM Based Cooling Technology, (GIAN Course), at School of Mechanical Sciences, IIT Bhubaneswar, 11th Dec - 15th Dec 2017.
- 2) Use of ICT in Education for Online and Blended Learning, under the National Mission on education through ICT (MHRD. Govt. of India), 2nd May –10th July, 2016

- 3) Engineering Mechanics, ISTE Workshop Sponsored by MHRD Conducted by IIT Bombay ,
26th Nov - 06th Dec, 2013
- 4) Short term Training Program on basic Matlab , TEQIP Sponsored at BIT Mesra, Ranchi , 24th
June – 01st July 2013
- 5) FDP on CAD&FEM, Sponsored by MHRD/AICTE at MNNIT Allahabad ,21st July to 2nd
August 2008
- 6) Advances in Aerospace Engineering. & Rocket Propulsion, Sponsored by ISTE/AICET at B.I.T.
Mesra, Ranchi, 28th June - 10th July, 2004
- 7) Present Trends & Future Prospects of Non-Conventional Energy in Jharkhand Problem &
Challenge , Sponsored by ISTE/AICET at B.I.T. Mesra, Ranchi, 9th June, 2003 to
22nd June, 2003.

[Dhaneshwar Mahto]