

Faculty Name: Dr. Chandrmani Yadav

Designation :Assistant Professor

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**BIO**

Dr. Chandrmani Yadav is an Assistant Professor in the Mechanical Engineering Department of SITRC, Nasik, India. He has been awarded with the Doctor of Philosophy and Master of Technology from Indian Institute of Technology (Banaras Hindu University), Varanasi, India in the area of Mechanical Engineering having specialization in Thermal and Fluid Engineering. He got his Bachelor in Technology degree from Greater Noida Institute of Technology, Greater Noida, Uttar Pradesh, India in Mechanical Engineering. He is having a total of 05 years of experience in the field of technical education and 01 year of experience in Industry. He had appointed as a Head of Department in Department of Mechanical Engineering at Ashoka Institute Technology and Management, Varanasi, India. He is a Life Member of Indian Society for Technical Education (ISTE).

Qualification:

1. BTech (Mechanical Engineering)
2. MTech (Mechanical Engineering)
3. Ph.D. (Mechanical Engineering)

Paper Publications details:

1. International Journal: 07
2. International Conference: 01

Experience:

1. Teaching experience :05

2. Industry experience:01

3. Research experience :04

Research Work:

Ph.D.:

1. **Thermal energy storage (TES) system** to recovery waste heat from Automobile.
2. **Energy and exergy comparison** of organic PCMs based TES system integrated with IC engine.
3. Thermal performance of TES system with **Al₂O₃ and CuO nano additives-organic PCMs** based NEPCMs integrated with IC engine.
4. Thermophysical properties and thermal performance analysis of **MWCNT based organic PCMs** TES system using T-History method.
5. Comparative studies of **inline & staggered tube bundles-based TES system** integrated with engine exhaust for cabin heating.

MTech.:

Design and Development of **solar vapour absorption Air-Conditioning system**.

Research Interest:

1. Design of heat exchangers.
2. Technologies applicable for waste heat recovery.
3. Technique for improvement in thermophysical properties in organic and inorganic PCMs based TES system.
4. Computational analysis on heat exchangers.
5. Renewable and sustainable Energy sources.

Subjects:

1. Basic and Applied Thermodynamics
2. Heat and Mass Transfer
3. I.C Engines
4. Power Plants Engineering
5. Fluid Mechanics and Machinery