

CV of Dr. Oveepsa Chakraborty

Name: DR. OVEEPSA CHAKRABORTY

Designation: Assistant Professor

**Address for Communication: (office): Department of Mechanical Engineering
Girijananda Chowdhury University, Guwahati**

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Sex: Female

Date of Birth: 10th December

Educational

Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 th Std.	2002	SEBA	
2	HSSLC/10+2 Std.	2004	AHSEC	Science
3	Degree B. Tech in Mechanical Engineering	2009	Sikkim Manipal Institute of Technology	Mechanical Engineering
4	Master's Degree M. Tech in Thermal Engineering	2011	NIT Silchar	Thermal Engineering
5	Ph. D. Mechanical Engineering (Solar Energy)	2021	NIT Silchar	Parabolic Solar Trough Collector

Languages known: Bengali, English, Assamese, Hindi

(Read, Write & Speak)

Academic/ Administrative Experience:

1. Teaching Experience: 12 years
2. Deputy Superintendent of Examination from Nov 2021 to July 2023 (GIMT- Tezpur).

List of Publications:

Journal Publications

1. **Oveepsa Chakraborty**, Influence of spinning flower structure inserts in the thermal performance of LS-2 model of parabolic trough collector with ternary hybrid nanofluid, **Renewable Energy**, 2023. **Indexed by SCI. Impact Factor 8.7.**
2. **Oveepsa Chakraborty**, Sujit Roy, Biplab Das, Rajat Gupta, Effects of helical absorber tube on the energy and exergy analysis of parabolic solar trough collector – A computational analysis, **Sustainable Energy Technologies and Assessments**, 2021. **Indexed by SCI. Impact Factor 7.632.**
3. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Sumita Deb Barma, Heat transfer enhancement analysis of parabolic trough collector with straight and helical absorber tube, **Thermal Science and Engineering Progress**, 2020. **Indexed by SCI. Impact Factor 4.56.**
4. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Performance of parabolic trough collector having rotating receiver: Effect of elliptical insert and hybrid nanofluid, **International Journal of Energy Research**, 2022. **Indexed by SCI. Impact Factor 4.672.**
5. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Effect of spherical balls insert in collector tube of parabolic trough collector by considering Al₂O₃-based water, **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, 2022. **Indexed by SCI. Impact Factor 2.361.**
6. **Oveepsa Chakraborty**, Sujit Roy, Biplab Das, Rajat Gupta, Computational analyses of Parabolic Trough Solar Collector in the presence of Helical Coil-Insert, **International journal of Environmental Science and Technology**, 2022. **Indexed by SCI. Impact Factor 3.519.**
7. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Thermal performance evaluation of parabolic trough collector having different inserts and working with hybrid nanofluid, **Energy & Environment**, 2023. **Indexed by SCI. Impact Factor 4.2**

8. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Performance of parabolic trough solar collector with spinning star inserts in receiver tube with hybrid nanofluid, **Proceedings of the Institution of Mechanical Engineers Part E Journal of Process Mechanical Engineering**, 2023. Indexed by SCI. Impact Factor 2.4.
9. **Oveepsa Chakraborty**, Deepak Sharma, Kummitha Obula Reddy, Krishna Murari Pandey, CFD Analysis of Cavity Based Combustion of Hydrogen at Mach Number 1.4, **Current Trends in Technology and Sciences**, 2012.

Book Chapters

1. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Jagannath Reddy, CFD Analysis of Spiral Absorber Tube for Parabolic Solar Collector with Straight Absorber Tube, **Energy and Exergy for Sustainable and Clean Environment, Volume 1 (Springer)**, 2022.
2. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Impact of Helical Coil Insert in the Absorber Tube of Parabolic Trough Collector, **Modeling, Simulation and Optimization (Springer)**, 2022.

Conference papers

1. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Jagannath Reddy, CFD Analysis of spiral absorber tube for parabolic solar collector with straight absorber tube, **11th International Exergy, Energy and Environmental Symposium**, 2019.
2. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Sumita Deb Barma, Impact of nanofluid in the thermal performance of parabolic solar trough collector for straight and helical absorber tube, **Proceeding of SEEP 2019**, 2019.
3. **Oveepsa Chakraborty**, Biplab Das, Rajat Gupta, Impact of helical coil insert in the absorber tube of parabolic trough collector, **Comso 2020**, 2020.

Research Experience: 5 years

Award, Fellowship & Recognition:

1. Own 1st Prize for paper presentation in NIT Mizoram Conclave 2021

Date: 09.08.2023



Dr. Oveepsa Chakraborty