

## CURRICULUM VITAE

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**Designation:** Assistant Professor  
Department of Mechanical Engineering  
Jorhat Engineering College



### Research area:

Solar thermal, Solar drying, Energy storage, Biofuels, and Sustainable energy.

### Education:

Qualification	Institute/University	Year
HSLC	St. Thomas High School, Sadiya	2010
HS	Pragjyotika Jr. College, Titabar	2012
B.E (Mechanical Engineering)	Jorhat Engineering College	2017
M.Tech (Energy Engineering)	Assam Science and Technology University	2020
Ph.D. (Solar Thermal and Energy Storage)	National Institute of Technology Silchar	Ongoing (2021 to Present)

### Research Experience:

- 1 year 6 months research experience in CSIR-NEIST Jorhat on the topic “Production and Characterization of Bio-Oil from Coal Shale, Ipomea Carnea and their blends.”

### International Journals (SCIE):

- **Borkakoti, S.,** Das, B. and Gupta, A., 2024. Environmental and economic assessment of single-slope solar greenhouse dryer for ginger and turmeric drying in north-eastern region of India. *Journal of Stored Products Research*, 106, p.102299.
- **Borkakoti, S.,** Das, B., Ahmad, A. and Irshad, K., 2025. Performance analysis of cost-effective single-slope solar greenhouse dryer for drying of bay leaf (*Laurus nobilis*) and neem leaf (*Azadirachta indica*). *Case Studies in Thermal Engineering*, p.106298.

### Patents:

- Water quality improving container 338503-001 (Issued March 3 2021, India)
- Cleaning device for oil spillage in ocean 363684-001 (Issued May 4 2022, India)

### **International/National Conferences Attended:**

- iCEAT 2025: 4<sup>th</sup> International Conference on Engineering and Agro-Industrial Technology, Los Baños, Philippines, March 12-14, 2025.
- ICROME 2025: 6<sup>th</sup> International Conference on Recent Advancements in Mechanical Engineering, NIT Silchar, India, 28 Feb - 01 Mar 2025.
- CoMSO 2024: 4<sup>th</sup> International Conference on Modeling, Simulation and Optimization, NIT Silchar, India, November 21-23, 2024.
- NCRAS 2020: 3<sup>rd</sup> National Conference on Recent Advances in Science and Technology, ASTU Guwahati, Assam, August 17-19, 2020.
- ICRAE 2018: 1<sup>st</sup> International Conference on Renewable and Alternate Energy, ASTU Guwahati, India, December 4-6, 2018.