

## **CURRICULUM VITAE**

Name: RAJIB BHOWMIK

Designation: Assistant Professor

Address for Communication: (office) Department of Mechanical Engineering

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### **Educational Qualifications:**

Sl. No.	Examination Passed	Year of passing	Board / Council / University	Specialization
1	HSLC/10 <sup>th</sup> Std.	2001	SEBA	General
2	HSSLC/10+2 Std.	2003	AHSEC	Science
3	Degree (B.E)	2008	Gauhati University	Mechanical Engineering
4	Master's Degree (M.Tech)	2011	Tezpur University	Energy Technology
5	Ph. D.	Pursuing	NERIST	Mechanical Engineering

### **Languages known:**

English, Assamese, Hindi, Bengali,

### **Academic/ Administrative Experience:**

1. August 2011 to till date: Assistant Professor, Department of Mechanical Engineering, Girijananda Chowdhury Institute of Management and Technology, Guwahati, India
2. August 2010 to December 2010: Teaching Assistant, Department of Mechanical Engineering, Tezpur University, Tezpur, India.
3. Examination Coordinator from 2013- 2019.
4. Training and Placement Coordinator from 2013- 2019.
5. Coordinator NBA for Department of Mechanical Engineering from 2019 – 2023.
6. Central Workshop Superintendent from 2023 onwards.

### **List of Publications:**

#### **Journal**

D. Mallick, P. Sharma, B.J. Bora, D. Baruah, **R. Bhowmik**, S.A. Barbhuiya, D. Balakrishnan, **2023**, Mechanistic investigation of pyrolysis kinetics of water hyacinth for biofuel employing isoconversional method, *Sustainable Energy Technologies and Assessments*

A. Chatterjee, **R. Bhowmik**, **2023**, Experimental determination of flexural strength of Bholuka bamboo (*Bambusa Balcooa*) of Assam, India,. *Materials Today: Proceedings*. 76, 585-589.

**R. Bhowmik**, S. Das, D Mallick, S.S. Gautam. **2022**, Predicting the elastic properties of hemp fiber- A comparative study on different polymer composite, *Materials Today: Proceedings*. 50, 2510 -2514.

**R. Bhowmik**, C. R. Kakati and D. Dhar, **2018**, Design and Fabrication of Manual Rice Transplanter. *International Journal for Research in Engineering Application & Management*, Vol 4, pp. 252-256, doi: 10.18231/2454-9150.2018.0332, ISSN: 2454-9150.

B. Bikash, **R. Bhowmik** and M. Saikia, **2013**, Challenges of Wet Briquetting from Locally Available Biomass. *International Journal of Modern Engineering Research*, Vol 3, pp. 1707–1711, ISSN: 2249-6645.

M. Saikia, **R. Bhowmik**, D. Baruah, B. J. Dutta and D.C.Baruah, **2013**, Prospect of bioenergy substitution in tea industries of North East India. *International Journal of Modern Engineering Research*, Vol 3, pp. 1272-1278, ISSN: 2249-6645.

### **Book Chapter**

S.K. Singh, R. Kacker, A. Arora, S. S. Gautam, **R. Bhowmik**, **2024**, Unleashing Potential: High Performance Polymers and Composites Drive Innovation in Additive Manufacturing, *Recent Trends in New Product Development and Smart Manufacturing*, Lecture Notes in Mechanical Engineering, Springer Nature (*In Proof*)

D. Mallick, S.D. Sharma, A. Kushwaha, H.S. Brahma, R. Nath, R. Bhowmik, **2022**, Emerging commercial opportunities for conversion of waste to energy: aspect to gasification technology, Waste-to-energy Approaches towards zero waste, 105 – 127

**R. Bhowmik**, Bhaskor J Bora, **2021**, Shorea robusta (Sal) fallen leaves briquette: A potential bioenergy fuel for rural community, *Innovations in Sustainable Energy and Technology*, 253-264.

**R. Bhowmik**, M. Chakraborty and D.C. Baruah, **2011**, Studies of *Mesua Ferrea* L: Biodiesel Production and characterization. *International Congress on Renewable Energy (ICORE2011)*, November 02–04, Tezpur, India.

## **Conference**

Presented paper entitled “Unleashing Potential: High Performance Polymers and Composites Drive Innovation in Additive Manufacturing” in “International Conference on New Product Development and Smart Manufacturing, NPDSM – 2024,” organized by Maulana Azad National Institute of Technology, Bhopal on 19th - 20th December, 2024.

Presented paper entitled “Shorea robusta (Sal) fallen leaves briquette: A potential bioenergy fuel for rural community” in “*Innovations in Sustainable Energy and Technology*” organized by Energy Institute Bangalore, Rajiv Gandhi Institute of Petroleum Technology from 3<sup>rd</sup> and 4<sup>th</sup> December 2020.

Presented paper entitled “Studies of *Mesua Ferrea* L: Biodiesel Production and characterization” in “*International Congress on Renewable Energy*” jointly organized by Solar Energy Society of India and Tezpur University from 2<sup>nd</sup> – 4<sup>th</sup> November 2011.

## **Research Experience:**

### **Completed Projects:**

1. “Optimizing friction and wear characteristics of seed oil based lubricant” sponsored by TEQIP III, MHRD, Govt. of India, New Delhi.
2. “Determination of physical properties of bamboo trunk” sponsored by TEQIP III, MHRD, Govt. of India, New Delhi.

## **Membership of Professional bodies:**

Lifetime member of Indian Society for Technical Education (LM103608)

### **Award, Fellowship & Recognition:**

1. Awarded **Best Poster Presenter** (*Poster title: Studies of Mesua Ferrea L: Biodiesel Production and characterization*) in International Congress on Renewable Energy: 2<sup>nd</sup> - 4<sup>th</sup> November 2011, Tezpur University, Tezpur, Assam.
2. Appreciation letter received for writing the Self-Learning materials of Units I-IV of the course DRE 202-“**Energy Efficiency in Thermal Utilities**” for the programme PG Diploma in Renewable Energy and Energy Management offered by the Centre for Open and Distance learning, Tezpur University.
3. **Reviewed** book on “Design of Machine Elements”, Oxford University Press.
4. **Scholarship** during 2009 -2010 under the scholarship scheme of Government of Assam, Director of Technical Education, Assam.



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Date: 2nd January, 2025