

## CURRICULAM VITAE

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### **Academic Profile:**

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Sl.No	Qualification	Class & Year of Passing	Institute/University
1	HSLC	First, 1997	Singra High School, Singra
2	HS	First, 1999	D.K. College, Mirza
3	BE	First, 2003	Assam Engineering College
4	ME	First, 2008	Gauhati University
5	PhD	2017	Gauhati University

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## Professional Experience:

Sl No	Designation	Organization/Institute	Period	Duration
1	Assistant Professor	Tezpur University	30/08/2012 to till date	
2	Assistant Professor and HoD Incharge of Mechanical Engineering Department	Central Institute of Technology, Kokrajhar	11/05/2010 to 30/08/2012	2 years 3 months
3	Lecturer	Girijananda Chowdhury Institute of Management & Technology, Guwahati	03/08/2009 to 10/05/2010	10 months
4	Lecturer	Icfai University, Tripura	15/07/2008-30/07/2009 year	1 year 15 days

**Area of Interest:** Thermal Engineering, Renewable energy, Heat Transfer.

## Publications

### **In Journals:**

1. **Bardalai, M.** and Mahanta, D.K. Characterisation of Biochar Produced by Pyrolysis from *Areca Catechu* Dust. *Materials Today: Proceedings* (Accepted for publication).
2. Saikia, N. and **Bardalai, M.** Thermal Analysis and Kinetic Parameters Determination of Biomass Using Differential Thermal Gravimetric Analysis in N<sub>2</sub> Atmosphere. *Materials Today: Proceedings* (Accepted for publication).
3. **Bardalai, M.** and Mahanta, D.K. Characterisation of pyrolysis oil derived from teak tree saw dust and rice husk. *Journal of Engineering Science and Technology* 13(1) (Accepted for publication).
4. **Bardalai, M.**, Bordoloi, N.K. and Mahanta, D.K. 2017. Production and biodegradability analysis of bael shell pyrolysis oil. *Materials Today: Proceedings* 4(2):603-610.
5. **Bardalai, M.** and Mahanta, D.K. 2016. Characterization of the pyrolysis oil derived from bael shell (*aegle marmelos*). *Environmental Engineering Research*, 21(2):180–187.
6. **Bardalai, M.** and D.K. Mahanta. 2016. Production of pyrolysis oil from areca tree using a fixed bed reactor. *Journal of Engineering Research* 4(2):172–187.

7. **Bardalai, M.** and Mahanta, D.K. 2015. A review of physical properties of biomass pyrolysis oil. *International Journal of Renewable Energy Research*, 5(1):277–286.
8. **Bardalai, M.** and Mahanta, D.K. 2013. Study of effects of some catalysts in biomass pyrolysis. *International Journal of Current Research and Review*, 5 (20):0975–5241.

#### **In International Conference Proceedings:**

1. **Bardalai, M.** and Mahanta, D.K. Characterization of rice husk through X-Ray diffraction, scanning electron microscope and fourier transform infrared analysis. Proceedings of international conference on Innovative Trends in Science, Engineering and Management 2016, 27 May, 2016, International Conference Centre YMCA, New Delhi. pp. 470-477. ISSN: 978-81-932074-9-9.
2. **Bardalai, M.** Shukla, S., Shukla, A.K., Saraj, R., Tripathy, G. and Kumar, S. Thermodynamic Performance Analysis of Active and Passive Solar heater. Proceedings of International Conference on Frontiers in Mathematics 2015, 26-28 March, 2015, Gauhati University, Guwahati, Assam, India. pp. 99-101, ISBN: 978-81-928118-9-5.
3. **Bardalai, M.** and Mahanta, D.K. The pyrolysis oil production from bael (aegle marmelos) shell dust using a fixed bed reactor. Proceedings of International Symposium on Aspects of Mechanical Engineering & Technology for Industry, (AMETI2014) 6-8 December, 2014, NERIST, Arunachal Pradesh, India. Vol. II, pp. 64-70. ISBN: 978-93-83842-96-4. (EXCEL INDIA PUBLISHERS).

#### **In National Conference Proceedings:**

1. **Bardalai, M.** and Mahanta, D.K. Production and analysis of biochar from areca tree fibre. Proceedings of National Conference on Sustainable Mechanical Engineering: Today and Beyond (SMETB2017), 25-26 March, 2017, Tezpur University, Tezpur, Assam, pp.311-314. ISSN:978-93-84388-11-9.
2. Saikia, N. and **Bardalai, M.** Study of thermal behaviour and evaluation of kinetic parameters of biomass. Proceedings of National Conference on Sustainable Mechanical Engineering: Today and Beyond (SMETB2017) 25-26 March, 2017, Tezpur University, Tezpur, Assam, pp.315-319. ISSN:978-93-84388-11-9.

#### **Papers presented in conferences/seminars:**

1. *Characterization of physical and chemical properties of rice husk.* UGC-SAP Seminar on Recent Trends in Food Processing: Value Addition & Enterprise Development (RTiFP2017). 27<sup>th</sup> March, 2017, Tezpur University, India.
2. *Production and analysis of biochar from areca tree fibre.* National Conference on Sustainable Mechanical Engineering: Today and Beyond (SMETB2017), 25-26 March, 2017, Tezpur University, Tezpur, India.

3. *Characterisation of biochar derived from aegle mermellos shell*. National Seminar on Petroleum Biotechnology and Bioenergy. 3-4 March, 2017, Tezpur University, India.
4. *Characterisation of biochar produced by pyrolysis from areca catechu dust*. Second International Conference on MATERIAL SCIENCE (ICMS2017), 16-18 February, 2017, Tripura University, Tripura, India.
5. *Characterisation of biochar derived from areca tree dust through pyrolysis*. All India Seminar on Recent Trends in Mechanical Engineering, 21-22 October, 2016, Institution of Engineers (India), Guwahati, India.
6. *Characterization of rice husk through X-Ray diffraction, scanning electron microscope and fourier transform infrared analysis*. International Conference on Innovative Trends in Science, Engineering and Management, 27 May, 2016, International Conference Centre YMCA, New Delhi.
7. *Production and biodegradability analysis of bael shell pyrolysis oil*. 5<sup>th</sup> International Conference on Materials Processing and Characterization. 12-13 March, 2016, GRIET, Hyderabad, India.
8. *The pyrolysis oil production from bael (aegle marmelos) shell dust using a fixed bed reactor*. International Symposium on Aspects of Mechanical Engineering & Technology for Industry, (AMETI2014). 6-8 December, 2014, NERIST, Arunachal Pradesh, India.
9. *A comparative study of teak tree saw dust and rice husk as the feedstock for pyrolysis oil production*. In National Seminar on Frontiers in Science and Technology. 8-9 March, 2013, Gauhati University, organised by Assam Science Society (58<sup>th</sup> Annual Technical Session), Guwahati, India.

I hereby declared that all the information produced above are true & correct.



Monoj Bardalai

