

Lourembam Ranjita Devi
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OBJECTIVE

To pursue a career in academia and research, guiding students and contributing to advancements in the field of electric vehicles, electrical engineering, and emerging sustainable technologies. I aim to leverage my technical, innovative, and analytical skills to support organizational growth while continuously developing my expertise.

EDUCATION

Examination/ Degree	Institution	Year
Doctor of Philosophy (Ph. D.)	National Institute of Technology Silchar	Pursuing
Master of Technology (M. Tech) in Power System Engineering	North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli	2017-2019
Bachelor of Engineering (B.E.) in Electrical and Electronics Engineering	Malnad College of Engineering, Hassan	2012-2016
All India Senior School Certificate Examination (AISSCE)	Jawahar Navodaya Vidyalaya, Bishnupur	2012
All India Secondary School Examination (AISSE)	Jawahar Navodaya Vidyalaya, Bishnupur	2010

Other examination qualified: GATE

SUBJECT TAUGHT

Theory	Laboratory
Electrical Machine Design	Basic Electrical Engineering Lab
Smart Grid Technologies	Power System Analysis Lab
Industrial Electronics and Electrical Drive Systems	Machine Learning Lab
Hybrid Electric Vehicles	High Voltage Engineering Lab
Numerical Methods and Computer Programming	Numerical Methods and Computer Programming Lab
Industrial Electrical Systems	Synchronous Machines Lab

B. TECH PROJECT GUIDED

- ✓ Design and analysis of a multifunctional convertible electric wheelchair using a joystick.
- ✓ Design and analysis of Lithium-ion battery used in Electric Vehicle Applications.
- ✓ A new IPMSM design for two-wheeler Electric Vehicle Applications.
- ✓ A new SynRM design for two-wheeler Electric Vehicle Applications.

POSITION OF RESPONSIBILITY

- ✓ Member of the Regulation Committee for Ph.D. and PG programs in MTU from 9th December 2024 till date.
- ✓ Member of the Website Sub-Committee from 19th December 2023 till date.
- ✓ Head of the Department, Electrical Engineering, from 19th December 2023 till date.
- ✓ Member Secretary of the Student Grievance Redressal Committee from 20th October 2023 till date.
- ✓ Chairman of the Board of Studies for the Department of Electrical Engineering from 18th March 2025 till date.
- ✓ Member of the Admission Committee from 6th May 2025 till date.

WORKSHOP/STTP/SEMINAR ATTENDED

- ✓ Five-day Bhutan India Foundation workshop held from October 17-21, 2024, organized by Jigme Namgyel Engineering College, Dewanthan, in Collaboration with CST Bhutan NIT Silchar and IIT Guwahati.
- ✓ One-week short-term training programme on “Research Trends and Advancement of Power Electronics Converter for Photovoltaic and Electric Vehicle Systems” organized by the Electrical Engineering Department, NIT Manipur from August 26-30, 2024.
- ✓ Three-day Faculty Development Programme on Disaster Risk Reduction from March 11-13, 2024, organized by Manipur Technical University in collaboration with the National Institute of Disaster Management, Ministry of Home Affairs, Govt of India.
- ✓ National workshop on “Seeking Government Funding: Essential Guidelines for successful Grant Acquisition” on 23rd December 2023 in collaboration with National Assessment and Accreditation Council, organized by IQAC, BRCM College of Engineering & Technology, Bahal.
- ✓ Five-day short-term course on “Fundamentals of Electric vehicles and its modeling with hands-on practice” organized by the Department of Mechanical Engineering and Electrical Engineering, NIT Rourkela, India, during December 9-13, 2023.
- ✓ One-week short-term training programme on “Recent Trends in Modelling and Control of Grid-Interfaced Photovoltaic and Electric Vehicle Systems” organized by Electrical Engineering Department, NIT Manipur from October 30 - November 3, 2023.
- ✓ Five-day Faculty Development Programme on “Smart Grid Enabling Technologies for Sustainable Future (SGETSF-2023)” held from March 13-17, 2023, at Swami Keshvanand Institute of Technology Management & Gramothan, Jaipur.
- ✓ One-week Short Term Course on “Energy Conservation for Sustainable Society: Innovation and Entrepreneurial Opportunity”, held online from Feb 27 to Mar 04, 2022, organized by NIT, Silchar.
- ✓ Four-week Faculty Induction/Orientation Programme for “Faculty in Universities/ Colleges/ Institutes of Higher Education” from 20 January – 1 February, 2023, organized by Teaching Learning Centre, Ramanujan College, University of Delhi.
- ✓ One-week Online Faculty Development Programme on “Introduction to Python Programming and its Applications” organized by E&ICT Academy, IIT Guwahati, held from 21 - 26 February

2022 in association with NERIST.

- ✓ 40-hour Online Faculty Development Program titled “Data Science for ALL” jointly organized by Electronics and ICT Academies during 12th – 23rd April, 2021.
- ✓ Two-week Online Faculty Development Programme on “ICT Tools for Teaching, Learning Process and Institute” jointly organized by Electronics and ICT Academies held from 15th – 26th March, 2021.
- ✓ One-week short-term course on “Data Analytics and Predictive Technology Driven IoT Based Smart Grid Infrastructure” during March 1-6, 2021, organized by DST-funded I-DAPT HUB Foundation.
- ✓ Presented “Thermal Analysis of three-core HVAC power cable” in the Second International Conference on Advances in Electrical, Electronics and System Engineering 2-3 November 2019 held at Gauhati University, Assam.
- ✓ One-day workshop on DISHA-A Personality Perspective for Women conducted on April 9, 2014, under the assistance of TEQIP2 in MCE.

PUBLICATIONS

Journal

1. **Lourembam Ranjita Devi**, S. Sreekumar, R. Bhakar, Dileep. G, and S. Padmanaba, “Electric motor modeling, analysis, and design for E-mobility applications: A state of the art”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Volume 1, Issue 1, April, 2025, Indexed in Scopus, Quartile: Q1

International Conference

1. **Lourembam Ranjita Devi**, A. Kumar Das and S. Chatterjee, "Parameter Analysis of Power Cable due to Presence of Void," 2019 IEEE 4th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON), Chennai, India, 2019, pp. 1-5, doi: 10.1109/CATCON47128.2019.CN0072. Indexed in Scopus
2. S. Hungyo, S. Mangte, L. W. Yarmaya, **Lourembam Ranjita Devi**, S. Sreekumar and S. R. Singh, "Design and Analysis of Multifunctional Convertible Electric Wheelchair using a Joystick," 2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), Imphal, India, 2023, pp. 243-247, doi: 10.1109/ICIDeA59866.2023.10295172. Indexed in Scopus
3. **Lourembam Ranjita Devi** and S. Sreekumar, "A Review on Indian EV Adoption Policy," 2023 IEEE 2nd International Conference on Industrial Electronics: Developments & Applications (ICIDeA), Imphal, India, 2023, pp. 389-394, doi: 10.1109/ICIDeA59866.2023.10295190. Indexed in Scopus

Patents

1. **Lourembam Ranjita Devi**, Sreekumar S., Anoubam Delin Sharma, Lourembam Malemnganba Singh, Rohit Bhakar, Kilangleima Chingsubam & Stalin Meitei Athokpam (2025). A novel VI-shaped rotor for interior permanent magnet motor (Indian Patent No. 202531029109 A).