

RAJKUMAR JOYDEV BORAH
Assistant Professor
Electrical & Instrumentation Engineering
Date of Joining: 21/07/2025



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ACADEMIC QUALIFICATIONS:

Ph.D.:	Electronics & Instrumentation Engineering [Thesis Submitted]
Institution:	National Institute of Technology, Nagaland
Research Area:	VANET, Intelligent Transportation System
Year:	2019-2025
Post-Graduation:	M.Tech in Electronics & Communication Engineering
Specialization:	Optoelectronics & Optical Communication
Institution:	Assam Don Bosco University
Year:	2012-2014
Graduation:	B.E. in Applied Electronics & Instrumentation Engineering
Institution:	GIMT-Guwahati under Gauhati University, Assam
Year:	2007-2011

RESEARCH PUBLICATIONS:

- **Rajkumar Joydev Borah**, D. Ganga, "Performance Analysis of AODV based VANETs in Guwahati City: A Comparative Study of Propagation Models." *International Journal of Vehicle Information and Communication System*, 2024.
- **Rajkumar Joydev Borah**, D. Ganga, "Analyzing Routing Protocol Performance in VANET within the context of Intelligent Transportation System" *International Journal of Vehicle Information and Communication System*, 2024.
- **Rajkumar Joydev Borah**, D. Ganga, "Analyzing the Influence of Routing Protocols and Propagation Models for Sustainable Urban Mobility in VANETs", *Sustainability* (2024).
- Saurav Bhagabati, **Rajkumar Joydev Borah** and Shekhar S. Borah, "FPGA Based characterization of thin film for Guided Mode Resonance devices utilizing layer by layer deposition of Nano-particles", *Asian Journal of Convergence in Technology, (AJCT) ISSN -2350-1146*, Vol. 7, no. 1, pp. 99-01, Apr. 2021.
- Joyeeta Singha, **Rajkumar Joydev Borah**, "Recent advances in Microbend Sensors in Various Applications", *Applied Optics*, IEEE International conference on Advanced research in Engineering & Technology, pp. 757-760, Feb 2013.
- **R. J. Borah** and D. Ganga, "Comparative Study of Propagation Models in Urban VANET Environments: Assessing OLSR Routing Based Vehicular Networks," *2024 5th International Conference for Emerging Technology (INCET)*, Belgaum, India, 2024, pp. 1-6, doi: 10.1109/INCET61516.2024.10593054.

- **R. J. Borah** and D. Ganga, "Analyzing VANET Performance in Urban Environments: A Comparative Analysis of Propagation Models with OLSR-Based Vehicular Networks through SUMO and NS3," *2024 2nd World Conference on Communication & Computing (WCONF)*, RAIPUR, India, 2024, pp. 1-5, doi: 10.1109/WCONF61366.2024.10691958.
- **R. J. Borah** and D. Ganga, "Impact of Fading Models on Information Dissemination in VANETs under Intelligent Transportation Systems," *2024 Control Instrumentation System Conference (CISCON)*, Manipal, India, 2024, pp. 1-6, doi: 10.1109/CISCON62171.2024.10696790.

REFRESHER COURSE/WORKSHOP ATTENDED:

- ❖ Certificate of participation in a seminar on "*Instrumentation, Operation and Control of Electrical Power System*" (IOCEPS) from 28th April to 29th April, 2011 at GIMT, Guwahati.
- ❖ Short term course on application of soft computing tools in the field of science & technology, 2013 (STCSCT2013) in Assam Don Bosco University in collaboration with Adlabts Solution and National Instruments-MATLAB, LabVIEW & SciLab from 17th June to 29th June, 2013.
- ❖ Participated in the National Conference "*Approaches of Basic Science Towards the Development of Engineering and Technology*", (NABSET 2013) at Assam Don Bosco University, Guwahati from 1st March to 2nd March, 2013.
- ❖ National Level Workshop cum Summer Internship on "LabVIEW and Selected Applications" Organized by Department of ECE in association with RESONIC Society of Gauhati University from 8th April to 15th April, 2013.
- ❖ Short term course on Control System-Analysis and Design using MATLAB in National Institute of Technical Teachers' Training and Research (NITTTR)-Kolkata from 19th December to 23rd December, 2016.
- ❖ Participated One-week workshop on "MATLAB Applications in Engineering", from 17th Feb to 21st Feb, 2019 at GIMT-Tezpur, Assam.
- ❖ Participated AICTE-Training and Learning (ATAL) Academy workshop on "Artificial Intelligence, Robotics & Machine Learning", from 22nd Feb to 26th Feb, 2019 at Indian Institute of Technology Guwahati.
- ❖ Successfully completed One-Month online internship at VI Solutions, Bangalore from 14th March to 18th March, 2020.
- ❖ Successfully Completed NPTEL Course on "Internet of Things", July-October 2019.
- ❖ Participated in a 5-Day Faculty Development Program on "Data Handling and Data Visualization using PYTHON" from 22.06.2020 to 26.06.2020 organized by Department of Computer Science and Engineering.
- ❖ Participated in a 10-days webinar series on "Python programming - A Case Study Driven Approach Skill Development Program" Organized by Department of Computer Science and Engineering, Swarnadhara College of Engineering & Technology, Andhra Pradesh from 1st July to 10th July 2020.
- ❖ Participated one-week virtual workshop on "Role of Internet of Things in Startup India Mission (RIOTSIM-2K20)", organized by Dadi Institute of Engineering & Technology, Andhra Pradesh from 20th July to 25th July, 2020.
- ❖ Participated one-week virtual workshop on "Role of Innovations in Teaching & Research RITR-2K20", organized by Dadi Institute of Engineering & Technology, Andhra Pradesh from 20th August to 26th August, 2020.
- ❖ Participated in a two-week Online Faculty Development Programme on "*Wireless Communication Technologies for IoT*" jointly organised by Electronics and ICT Academies held from 27 July to 07 Aug, 2020 under the "Scheme of financial assistance for setting up of Electronics and ICT Academies" of the Ministry of Electronics and Information Technology (MeitY), Government of India, Indian Institute of Technology Guwahati.

- ❖ Participated the IEEE CIS Summer School on "Emerging Research Trends in Artificial Intelligence and Computational Intelligence" organized by National Institute of Technology Arunachal Pradesh, India from 15th November–19th November 2021 sponsored by IEEE Computational Intelligence Society.
- ❖ Successfully completed the Government Official Training Program on Robotics Process Automation under "Future-skills PRIME" Program held from 16th January-20th January, 2023.

TEACHING & RESEARCH EXPERIENCE: Total 11 Years of Teaching & Research Experience

Sl. No.	Organization	Designation	Department/ Project	From	To	Total Duration
1	Girijananda Chowdhury Institute of Management & Technology (GIMT), Tezpur	Teaching Assistant	Electrical Engineering	11 th Feb, 2014	31 st July, 2014	6 Month
2	Girijananda Chowdhury Institute of Management & Technology (GIMT), Tezpur	Assistant Professor	Electrical Engineering	1 st Aug, 2014	31 st Jan, 2021	6 Years & 6 Month
3	Girijananda Chowdhury Institute of Management & Technology (GIMT), Guwahati	Assistant Professor	Electrical Engineering	1 st Feb, 2021	24 th August, 2021	6 Month
4	National Institute of Technology, Nagaland	Guest Faculty	Electronics & Instrumentation Engineering	25 th August, 2021	30 th April, 2024	2 Year 8 Month
5	Tezpur University	Project Research Scientist-I	ICMR Project	1 st May, 2024	18 th July, 2025	1 Year 2 Month
6	Assam Engineering College	Assistant Professor	Electrical & Instrumentation Engineering	21 st July, 2025	Till Date	3 Month

DETAILS OF OTHER ACADEMIC & ADMINISTRATIVE RESPONSIBILITIES:

- ❖ NBA Co-Coordinator for Instrumentation Engineering Department, Assam Engineering College
- ❖ NBA Coordinator for Electrical Engineering Department of GIMT Tezpur.
- ❖ Assistant Superintendent of Examination of GIMT Tezpur
- ❖ Chief Admission Coordinator of GIMT Tezpur.
- ❖ Coordinator, Robotics Club, GIMT Tezpur.
- ❖ Coordinator, Industry Institute Interactive Cell, GIMT Tezpur