

DEBAJYOTI CHATTERJEE

Assistant Professor | Electronics & Communication Engineering

Kolkata, West Bengal, India | Mobile: 7003817774 | Email: deba10.here@gmail.com

Orcid id: 0009-0005-0274-1245



ACADEMIC EXPERIENCE

Presently working as Assistant Professor in the Department of Electronics & Communication Engg. at Dream Institute of Technology, Kolkata since May, 2025.

Worked as Assistant Professor in the Department of Electrical & Electronics Engg. at Swami Vivekananda Institute of Science & Technology, Kolkata from July, 2018 to April, 2025.

Worked as Asst. Professor in the Dept. of Electronics & Communication Engg at Dream Institute of Technology, Kolkata from July, 2017 to July, 2018.

Worked as Asst. Professor in the Dept. of Electronics & Communication Engg at Budge Budge Institute of Technology, Kolkata from January, 2016 to June, 2016.

Worked as Lecturer and Teacher-in charge in the Dept. of Electronics & Tele Communication Engg at Budge Budge Institute of Technology Polytechnic, Kolkata from July, 2013 to December, 2015.

Worked as Lecturer (part-time) in the Dept. of Electronics & Communication Engg at Jnan Chandra Ghosh Polytechnic, Kolkata from February, 2005 to August, 2006.

INDUSTRY EXPERIENCE

Project execution by installation, commissioning, testing, interfacing between different telecom networks, troubleshooting and operation-maintenance of SDH, PDH, primary & higher order multiplexers, NMS, MW radio of SDH & PDH capacity, OFC and Infra.

Worked as Cluster Manager at M/s. Technocon Services from July, 2016 to July, 2017 for operation & maintenance (O&M) of 4G/LTE network of Reliance JIO Infocomm Limited.

Led a team of 75 people for the O&M of Infra, transmission backhaul (IP & Microwave) & access (Radio networks including Wi-fi/IBS/Small Cell) networks to maintain up time.

Worked as Cluster manager (North) of Kolkata Telecom Circle in the Dept. of Operation & Maintenance in Reliance Communications Ltd. from June 2009 to June 2013.

Led a team of 35 people during this period. I have worked for the maintenance of 2G, 3G and CDMA networks.

Worked on SDH & PDH Microwave links, LOS checking, link AT, visibility, PM activity, SDH Multiplexers, Fault Management through Network Management System (NMS), LSPM & OTDR to locate OFC faults, infra (power) issues in 2G network & also worked for 3G implementation through optical multiplexers using SDH technology with EOPDH/SDH microwave and Ethernet switches.

Award: Adjudged BEST Area Manager at pan India basis performance for a quarter of Business cycle.

Worked as Executive Engineer from September 2006 to May 2009 in Technical support Dept. in M/s. Fibcom India Limited.

Worked in the projects for Reliance Communications Ltd, Railtel Corporation Ltd. and Indian Railway during this period.

Worked on Installation, Commissioning, Equipment migration, Testing, Retro fitment, Interfacing, Troubleshooting & Maintenance of telecom control links based on SDH & PDH technology. Also worked on optical/electrical Fast Ethernet and Gigabit Ethernet over SDH.

Worked as Apprentice Engineer from April 2005 to March 2006 in Equipment Installation dept. (section- TBZ-II) in Calcutta Telephones, BSNL, Tirettabazar, Kolkata-700073.

Installation, Expansion, Commissioning & Acceptance Testing of different telephone switching systems like BROADBAND DSLAM (256 Kb/s or more), DLC based on SDH, DTAX (AXE-10), OCB and EWSD systems.

As Junior Engineer from September 2003 to March 2005 in M/s. Ultratech, worked on assembling and testing of electronic circuit boards in different projects of instrumentation & industrial electronics.

RESEARCH EXPERIENCE & ENGAGEMENT

Registered in the Ph.D. programme offered by the Department of Electronics & Communication Engineering at National Institute of Technology, Jamshedpur, Jharkhand with registration ID 2024RSEC001 and pursuing research activities since two and a half years.

Domain of work: Microwave & RF Engineering, IOT.

Currently working as co-investigator in an industry-sponsored project of M/s. Eastman Crusher Co. Pvt. Ltd, Kolkata on “The development of a real-time online coal moisture detection system for various industrial needs.”

QUALIFICATIONS

Master of Engineering (M.E.) in Electronics & Communication Engineering, Birla Institute of Technology (Deemed University), Mesra, Ranchi, 2015 with Wireless Communication as specialization.

Worked on: “Optimization of wireless network parameters using Cooperative Communication”.

Bachelor of Engineering (B.E.) in Electronics & Communication Engineering, Siliguri Institute of Technology under University of North Bengal, 2003.

PUBLICATIONS

[1] J. Pagaria, S. K. Ranjan, A. K. Kashyap, **D. Chatterjee**, K. Juliano, and S. Sahoo, “A Compact Quad-Band Metamaterial Absorber under K and Ka-Band for Energy Harvesting Applications,” *Proc. 2026 IEEE International Conference on AI Engineering and Innovations (AIEI)*, Mar. 2026, doi: 10.1109/AIEI69164.2026.11497461.

[2] S. K. Ranjan, J. Pagaria, R. K. Yadav, **D. Chatterjee**, K. Juliano, and S. Sahoo, “A Compact and Stable Wideband Metamaterial Absorber for Shielding Technology,” in *Proc. 2026 IEEE International Conference on AI Engineering and Innovations (AIEI)*, Mar. 2026, doi: 10.1109/AIEI69164.2026.11497516.

[3] B. Bhattacharjee, Subhra J Sarkar, and **D. Chatterjee**, “Design and Implementation of a Solar Integrated Control System for Sustainable Greenhouse Farming,”----- Accepted and to be published in *FACTA Universitatis, Series: Electronics and Energetics*, ISSN 2217-5997.

SEMINAR / CONFERENCE / WORKSHOP / STTP / FDP

5- days International FDP, “Impact and Influence of AI in the age of Generative and Agentic AI”. Department of Computer Science, Sister Nivedita University, Kolkata, 02 –06 February 2026.

1-day workshop, “Innovation to Start-up”, IPR, Ethical and Legal Matters cell in collaboration with the Institutions Innovation Council (IIC), Amity University Kolkata, 30 January 2026.

1-week STTP, “Revolutionizing signal processing: The impact of Artificial intelligence and Machine Learning”, IEEE Signal Processing Society in association with Department of Electronics & Communication Engineering, Dream Institute of Technology, Kolkata (Student Chapter), 04–08 March 2025.

2-week FDP, “AI-based image processing for bio-medical applications (AIIPBM-2025)”, Department of Electronics & Communication Engineering, NIT Jamshedpur in collaboration with E & ICT Academy Phase-II, NIT Patna, 17–28 February 2025.

1-week FDP, “Effect of Generative AI in Modern Research and Industry”, Department of Computer Science, Sister Nivedita University, Kolkata, 29 April–03 May 2024.

Conference, “Emerging technologies for Atmanirbhar Bharat”, IIM Kolkata in association with TATA Consultancy Services, August 2023.

1-week FDP, “Gamification”, Swami Vivekananda Institute of Science and Technology, Kolkata, April 2023.

1-week FDP, “Teaching Pedagogy and Research Methodology in Contemporary Times: Effective Process and Tools”, Swami Vivekananda Institute of Science and Technology, Kolkata, March 2023.

Workshop, “Designing and modelling of IOT, AI & ML systems”, ATAL Academy (AICTE) in collaboration with ARM Education and STMicroelectronics, Geneva, Switzerland, August 2022.

1-week FDP, “Automation System Design & Simulation using Automation Studio Software”, DELLSOFT Technologies Pvt. Ltd., New Delhi in association with Famic Technologies Inc., Canada, August 2022.

“IP awareness training programme” under NIPAM, Intellectual Property Office, Kolkata, April 2022.

1-week FDP, “Recent trends in Engineering & Technology”, Swami Vivekananda Institute of Science and Technology, Kolkata, November 2021.

1-week STTP, “Thesis-writing”, NITTTR Kolkata, February 2018.

1-week STTP, “Outcome-based education & Accreditation”, NITTTR Kolkata, January 2018.

National Conference, “Engineering solutions to sustainable development”, Budge Budge Institute of Technology, Kolkata, October 2015.

Seminar, “Applications of signal processing & system security”, Budge Budge Institute of Technology, Kolkata, February 2015.

Workshop, “ADS, RF system design and Ptolemy training”, BIT Mesra, organized by Agilent Technologies, USA, January 2013.

Workshop, “RDBMS concepts, Oracle 8i and Oracle Developer 2000”, Techno India, Salt Lake, Kolkata, July 2001.

KEY RESPONSIBILITIES HANDLED

1. Chief Head Examiner (CHE) for VLSI & Microelectronics (Code: PE EEE 601C), even end semester examination 2024, MAKAUT, WB.

2. Member, NAAC internal audit committee, SVIST.

3. Member, Institute Innovation Council (IIC) & Entrepreneurship Development Cell (EDC), SVIST.

4. Committee member, NIRF Cell, SVIST.

5. Exam-cell member at SVIST; attended examination-related workshops conducted by Office of the Controller of Examinations, MAKAUT, WB.

6. Departmental coordinator of academic activities including GATE and competitive-exam preparation, AICTE-driven activities, etc at SVIST.

7. Departmental coordinator of online courses (MOOCs) as a member of NPTEL Local Chapter at SVIST.

8. Examiner/Paper-setter/Reviewer appointed in examinations conducted by MAKAUT and WBSCTE.

9. External examiner in practical/sessional examinations conducted by MAKAUT and WBSCTE.

10. Jury committee member at institute-level hackathons and Tech-fests at SVIST.

11. Teacher-in-charge (TIC), Electronics & Telecommunication Engineering Department, BBIT Polytechnic.

12. Assistant Centre In-charge (CIC), BBIT Polytechnic; conducted academic and administrative examination activities and liaison with WBSCTE.

13. Faculty advisor and organizer of industry visits by students.

14. Technical Advisor, M/s. Narayan Marketing & Services, Kolkata – 700103.

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Place: Kolkata

Debajyoti Chatterjee