

CURRICULUM VITAE

Name: GAGARI DEB

Designation: Assistant Professor (Contractual)

Department: Electrical Engineering

Academic Qualifications: Ph.D (Engineering), National Institute of Technology, Agartala.

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Research Area: Voltage Stability Analysis of Power System.

Teaching Experience:

- 1) Working as an Assistant Professor (Contractual) in Tripura University from 06.01.2009 to till date.
- 2) Lecturer in ICFAI University, Tripura from 09.07.2008 to 02.01.2009.
- 3) Visiting Lecturer in Tripura Engineering College (Now NIT Agartala) from 18.08.2005 to 15.05.2006.

List of Publications in Journals:

- 1) Kabir Chakraborty, **Gagari Deb**, Sharmistha Sharma, “Symbiotic organisms search based multi-objective optimal placement of distributed generators considering uncertainty of source and load”, Scientia Iranica, July, 2021, DOI:10.24200/SCI.2021.56149.4575, (SCIE, Impact Factor: 1.435, UGC-CARE List Group II).
- 2) **Gagari Deb**, Kabir Chakraborty, Sumita Deb, “Modified Spider Monkey Optimization – Based Optimal Placement of Distributed Generators in Radial Distribution System for Voltage Security Improvement”, Electric Power Components and Systems, Vol 48, No. 9-10, pp. 1006-1020, October, 2020 (SCIE, Impact Factor:0.824, UGC-CARE List Group II).
- 3) **Gagari Deb**, Kabir Chakraborty, Sumita Deb, “Spider Monkey Optimization Technique-based Allocation of Distributed Generation for Demand Side Management”, International Transactions on Electrical Energy Systems, Vol 29, Issue 5, May 2019 (SCIE, Impact Factor:1.314, UGC-CARE List Group II).



- 4) Somudeep Bhattacharjee, Rupan Das, **Gagari Deb**, Brahma Nand Thakur, “Techno-Economic Analysis of a Grid-Connected Hybrid System in Portugal Island”, International Journal of Computer Sciences and Engineering, E-ISSN: 2347-2693, Vol. 7, Issue 1, pp. 1-14, January 2019 (UGC approved Journal No. 63193).
- 5) **Gagari Deb**, Kabir Chakraborty, “Gauss-Seidel Method Based Voltage Security Analysis of Distribution System”, International Journal of Electrical and Computer Engineering, ISSN: 2088-8708, Vol.8, No.1, pp. 43-51, February 2018, Published by Institute of Advanced Engineering and Science (SCOPUS, UGC-CARE List Group II).
- 6) **Gagari Deb**, Kabir Chakraborty, “Artificial Neural Network Based Voltage Stability Analysis of Radial Distribution System”, International Journal of Applied Engineering Research, ISSN: 0973-4562, Vol. 12 No.8, pp. 1524-1528, May 2017, Published by Research India Publications (SCOPUS[2010-2017], UGC Approved Journal - 2017 [Journal No. – 64529]).
- 7) Moumita Deb, Abhishek Das, **Gagari Deb**, “ Control of Voltage and Frequency of a Wind Electrical System using Frequency Regulator ” , International Journal of Engineering Research and Technology (IJERT), ISSN: 2278-0181, Vol.3 Issue 3, pp. 1473-1475, March 2014, Published by ESRSA Publication.
- 8) **Gagari Deb**, Bismoy Roy, Roshan Ghosh, “Use of DTMF Controller in Distribution Line Protection”, International Journal of Engineering Research and Technology (IJERT), ISSN: 2278-0181, Vol.2 Issue 6, pp. 1936-1941, June 2013, Published by ESRSA Publication.
- 9) **Gagari Deb**, “Ferranti Effect in Transmission Line”, International Journal of Electrical and Computer Engineering, ISSN 2088-8708, Volume 2, Number 4, pp. 447-451, August 2012, Published by Institute of Advanced Engineering and Science (IAES).
- 10) **Gagari Deb**, Ramananda Paul, Sudip das, “Hybrid Power Generation System”, International Journal of Computer and Electrical Engineering, ISSN: 1793-8198(online version), 1793-8163(print version).Volume 4, Number 2, pp. 141-144, April 2012, Published by International Association of computer Science and Information Technology Press (IACSIT).
- 11) **Gagari Deb**, “Nature of Wind Turbine Power”, International Journal of Computer and Electrical Engineering, ISSN: 1793-8198(online version), 1793-8163(print

version).Volume 4, Number 2, pp. 145-148, April 2012, Published by International Association of computer Science and Information Technology Press (IACSIT).

12) **Gagari Deb**, Arijit Bardhan Roy, “Use of Solar Tracking System for Extracting Solar Energy”, International Journal of Computer and Electrical Engineering, ISSN: 1793-8198(online version), 1793-8163(print version). Volume 4, Number 1, pp. 42-46, February 2012, published by International Association of computer Science and Information Technology Press (IACSIT).

13) **Gagari Deb**, Partha Sarathi Saha, Prasenjit Das, “A Method of Finding Capacitor Value for Power Factor Improvement”, International Journal of Electrical Engineering, ISSN 0974-2158, Volume 4, Number 8, pp. 913-922 (2011), Published by International Research Publication House, New Delhi, India.

List of Publications in Conferences:

1. **Gagari Deb**, Kabir Chakraborty, Sumita Deb, “Voltage Security based State Classification of Distribution System and Voltage Security State Improvement by STATCOM”, International Conference on Materials, Applied Physics & Engineering (ICMAE)-2018, June 3-4, 2018, Indore, Madhya Pradesh, India.
2. **Gagari Deb**, Kabir Chakraborty, Sumita Deb, “Voltage Stability Analysis of Radial Distribution System using Supervised Learning Algorithm”, International Conference on Materials, Applied Physics & Engineering (ICMAE)-2018, June 3-4, 2018, Indore, Madhya Pradesh, India.
3. **Gagari Deb**, Kabir Chakraborty, Sumita Deb, “ Voltage Stability Analysis using Reactive Power as Indicator and Its Improvement by FACTS Device ”, First IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems(ICPEICES 2016), July 4-6, 2016, Delhi Technological University, Delhi, India.
4. Kabir Chakraborty, **Gagari Deb**, Sumita Deb , “ Voltage Stability Assessment in Radial Distribution System by Line Stability Indicator (LSI) and its Improvement using SVC ”, First IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES 2016), July 4-6, 2016, Delhi Technological University, Delhi, India.
5. **Gagari Deb**, “Improvement of Power System Stability by using Power System Stabilizer”, Proceedings of IEEE CALCON 2014, November 07-08, 2014, IEEE Kolkata section, Kolkata, India.

6. **Gagari Deb**, Abhishek Das, Moumita Deb, Rikta Majumder, “ Voltage Sag Mitigation by Dynamic Voltage Restorer”, Proceedings of IEEE CALCON 2014, November 07-08, 2014, IEEE Kolkata section, Kolkata, India.
7. Arijit Bardhan Roy, Sharmistha Paul, **Gagari Deb**, “ Design of Solar Tracking System”, Proceedings of National Conference on Recent Trends in Alternate Energy-2011, June 9th -10th , 2011, Department of Chemical Engineering, NIT Calicut, Kerala, India.
8. **Gagari Deb**, Subhadeep Bhattacharjee, “ Power Generation by Wind Electrical System”, National Conference on Power Systems Today-2010(PST-2010), March 23rd -27th , 2010, Department of Electrical Engineering, AU College of Engineering(A), Andhra University, Visakhapatnam, Andhrapradesh, India.

Refresher course/Orientation Programme/GIAN course/Short Term Training/Summer School/Winter School/Training Programme Attended:

1. AICTE Training And Learning (ATAL) Academy Online FDP on “Energy Engineering” November 23, 2020 to November 27, 2020 at National Institute of Technology, Agartala.
2. Two Days’ “Soft Skill Training” on September 28, 2018, organized by Tripura University and Infosys Ltd., Bangalore.
3. Ten Days’ Workshop on “ Smart Grid : Secure and Sustainable Energy” September 16-25, 2016, organized by Department of Electrical Engineering, Tripura University (A Central University), under Global Initiative for Academic Networks (GIAN).
4. Ten Days’ Workshop on “Stability Modelling & Analysis of Power System Including Large Renewable Energy Sources” December 30, 2015-January,8, 2016, organized by Department of Electrical Engineering, National Institute of Technology, Agartala, India.

Seminar/ Workshop Attended:

1. Two Day National Workshop on “Getting Aligned to the Publishing Process”- Author Workshop, on September 25, 2020, organized by ELSEVIER.
2. Five Days’ National Workshop on “Recent Trends in Quantum Computing” September 23-27, 2019 organized by Department of Information Technology, Tripura University (A Central University).
3. Two Days’ Workshop on “Cyber Security and Artificial Intelligence” September 25, 2018, organized by Tripura University and Newyork State University, USA.

4. One Day workshop on “The Role of Local Chapters” on April 24, 2017, organized by Indian Institute of Technology, Kanpur at Tripura University, Agartala.
5. One day Seminar on “Power Development Scenario in Tripura & Bangladesh” On March 25, 2016, organized by, Institute of Engineers’ India, Tripura State Centre.
6. Three Days’ National Workshop on “Recent Advancement in Soft Computing Techniques” January 29-31, 2016, organized by Department of Mathematics, National Institute of Technology, Agartala, India.
7. Two Days’ Workshop on “Virtual Laboratory” January 13-14, 2016, jointly organized by Tripura University (A Central University) and Indian Institute of Technology, Guwahati.
8. One day workshop on “Smart Grid” on 27th April, 2015, organized by Department of Electrical Engineering, Tripura University.
7. Author Workshop on “How to use Online Resources and Develop Skills to Write and Publish”, on 25th March, 2015, organized by Wiley in collaboration with Central Library, Tripura University.
8. Three days’ workshop on “Effective Implementation of Research Proposals, Simulation and Reports” January 22nd -24th , 2015, organized by Industry Institute Interaction Cell, Tripura Institute of Technology, Narsingarh, Tripura (West), Sponsored by TEQIP-Phase II, Govt of India.
9. Author Workshop on “Skill development to write scientific literature, quality improvement of manuscript for publication success”, 18th November, 2014, organized by SPRINGER in collaboration with Central Library, Tripura University.
10. 1 day Workshop on “Basics of Photonics”, 1st February, 2014, organized by Department of Electrical Engineering, Tripura Institute of Technology, Narsingarh, Agartala. Sponsored by TEQIP-Phase II, Govt of India.
11. National Seminar on “Higher Education: Past, Present and Future-A Special Reference to North East India”, October 25th -26th, 2013, organized by Tripura University Employees’ Association, Tripura University, Suryamaninagar, Tripura, India.
12. Seminar on “Energy Conservation Building Code (ECBC)”, August 25, 2013, jointly organized by ‘The Institution of Engineers (India)’, Tripura State Centre and Tripura State Electricity Corporation Limited, Agartala, supported by Bureau of Energy Efficiency (BEE), New Delhi.

13. Workshop on Digital Holography, May 23rd -24th, 2013, Organized by Tripura University (A Central University).
14. Mission 10X, November 30th – December 4th, 2010, Organized by Tripura Institute of Technology, Narsingarh, and Wipro Corporation.
15. Computational Information Processing, March 23rd -27th, 2009, Organized by Indian Statistical Institute, Kolkata and Tripura University (A Central University).

Membership in Organizations: Institute of Engineers' (INDIA)

Name of the M.Tech projects guided:

- 1) Analysis of Harmonics and Reduction of its Distortion in Power System (2021).
- 2) Network Reconfiguration and Capacitor Placement for Loss Reduction and Voltage Profile Improvement (2021).
- 3) A Smart Network System to Analyze Fault and Protect Three Phase Power Transmission Line (2021).
- 4) Demand Side Management using Genetic Algorithm and Particle Swarm Optimization Techniques (2020).
- 5) Load Scheduling Optimization for Smart Grid using Firefly Algorithm (2020).
- 6) Load Frequency Control of an Inter-connected Power System by Cascaded Controller using Optimisation Technique (2020).
- 7) Optimal Power Flow Solution using Multi-objective Dragonfly Algorithm (2020).
- 8) Improved Demand Response with Particle Swarm Optimization and Symbiotic Organism Search (2019).
- 9) Active Power Loss Minimization of Power Transmission System Using Particle Swarm Optimization and Artificial Neural Network (2019).
- 10) Hybrid Method for Placement and Sizing of DG using Stability Index and Ant Lion Optimization Algorithm for Minimization of Loss (2019).
- 11) Voltage security Assessment of Radial Distribution System using Artificial Neural Network with Reduction of Input by k-means Clustering Algorithm (2018).
- 12) Genetic Algorithm Based Optimal Placement of STATCOM for Voltage Stability Improvement of Power System (2018).

- 13) Voltage Stability Analysis of Power System Network by Using the Thevenin's Equivalent Circuit (2017).
 - 14) Voltage Stability Analysis Using Bus Stability Indicator In Power Transmission Line (2017).
 - 15) Design of Fault Current Limiter (2015).
 - 16) Reduction of Aggregate Technical & Commercial loss for a Distribution Network T.S.E.C.L (2015).
 - 17) Voltage stability Assessment Power Transmission Network of Tripura by Network Reconfiguration (2015).
 - 18) An Efficient MPPT based PV Power fed Induction Motor Drive for Water Pumping System (2015).
 - 19) Control of Voltage and Frequency in Wind Electrical System (2014).
 - 20) Use of DTMF Controller in Distribution line Protection (2013).
 - 21) Design of DTMF Based Controller for Relay Operation Control & Efficiency Improvement of a PV cell (2012).
 - 22) Representation of Power System using LABVIEW (2011).
 - 23) Solar Tracking System (2011).
 - 24) Simulation of Hybrid Power System using PSCAD/EMTDC (2010).
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