

CURRICULUM VITÆ



Dr. Sadhan Gope

Assistant Professor

Department of Electrical Engineering

Phone: +91-9862670880/

+91-7005317632

School of Engineering & Technology

Mizoram University

Aizawl-796004, India

E.Mail: sadhan.nit@gmail.com/

sadhan@mzu.edu.in

Personal Details:

Date of Birth: 10-05-1986

Sex: Male

Father's Name: Sri Ashutosh Gope

Marital Status: Married

Nationality: India

Permanent Address: Vill+P.O.- Muhuripur, Santirbazar, South Tripura, Pin-799142

Educational Qualifications:

- Doctor of Philosophy (Ph.D): 2018, National Institute of Technology Silchar, Assam
Thesis Entitled, "Transmission Congestion Management Considering Wind Farm and Energy Storage System in Competitive Electricity Market".
- Master of Technology (M.Tech): 2011, National Institute of Technology Silchar.
- Bachelor of Engineering (B.E): 2009, National Institute of Technology Agartala.
- H.S. (+2): 2004, Tripura Board of Secondary Education
- High School (Madhyamik): 2002, Tripura Board of Secondary Education.

Research Interest:

- Power System Optimization
- Application of Soft Computing Techniques in Power System
- Transmission Congestion Management
- Power System Deregulation
- Distributed Generation with Renewable Energy Sources
- Smart Grid and Electric Vehicle

Details of Previous Employments:

- Assistant Professor, Department of Electrical Engineering, National Institute of Technology Mizoram, July 2011- July 2012.

Administrative Experience:

- HOD, Department of Electrical Engineering, Mizoram University from Feb 2015 to March 2016.

Awards & Distinctions:

- Received "Best Paper Award" in First International Conference on "Advancement of Computer Communication and Electrical Technology, 2016.

Professional Memberships:

- Member, Indian Society for Technical Education (ISTE) -LM-109086.
- Member, International Association of Engineers (IAENG) – 159138.

Academic Achievements:

- Received “Certificate of Excellence” for excellent performance in the ISTE Workshop on “Solar Photovoltaics: Fundamental, Technologies and Applications” conducted by Indian Institute of Technology Bombay, from 12th -22nd December 2011.
- Acting as a Session Chair on “Computational Intelligence for Smart Power System and Energy Management” in International Conference on Computational Intelligence & Internet of Things (ICCIoT) 2018.

Research Papers Reviewed for Journals:

- Reviewer, IEEE Transactions on Intelligent Transportation Systems.
- Reviewer, Electric Power Components and Systems, Taylor and Francis.
- Reviewer, Clean Technologies and Environment Policy, Elsevier.
- Reviewer, Engineering Science and Technology, an International Journal, Elsevier.
- Reviewer, CSEE Journal of Power and Energy Systems (JPES), IEEE.
- Reviewer, Journal of The Institution of Engineers (India): Series B, Springer.
- Reviewer, International Journal of Green Energy, Taylor and Francis

Details of Professional Trainings:

- Attended workshop on “**Total Station by Surveying**”, organized by Department of Civil Engineering, Mizoram University, Aizawl, 7th – 11th May, 2018.
- Attended workshop on “**Soft Computing and its Application in Real Life Problem**”, organized by Department of Mathematics, National Institute of Technology Agartala, 9th – 13th April, 2018.
- Attended workshop on “**Advance in Manufacturing Process**”, organized by Department of Mechanical Engineering, National Institute of Technology Mizoram, 19th - 23rd March, 2018.
- Attended workshop on “**Soft Computing Techniques: Theory and Application**” organized by Machine Intelligent Unit, ISI and Mathematics and Computer Science Department, Mizoram University, 20th - 24th March, 2017.
- Attended workshop on “**Smart Grid: Secure and Sustainable Energy**” organized by Electrical Engineering Department, Tripura University, 16th - 25th September, 2016.
- Attended Refreshers Course on “**Emerging Trends of Science and Technology (ID)**” organized by Human Resource Development Centre, Mizoram University, 1st – 21st March, 2016.
- Attended workshop on “**Recent Advancement in Soft Computing Techniques**” organized by Department of Mathematics, National Institute of Technolgy, Agartala, 29th – 31st January, 2016.
- Attended workshop on “**Microwave Measurement and Instrument**” organized by National Institute of Technology, Mizoram, 20th -24th September, 2015.

- Workshop attended on “**DigSilent Power Factory**” organized by Department of Electrical Engineering, Mizoram University, 1st -2nd July,, 2015.
- Attended “**Orientation Programme**” organized by Academic Staff College, Mizoram University, 19th November to 16th December,, 2013.
- Attended workshop cum training programme on “**Research Methodology and Application of SPSS in Business Studies**” organized by Mizoram University, 28th February -9th March 2013.
- Attended workshop on “**Computational Information Processing**” organized Indian statistical Institute, Kolkata jointly with Tripura Institute of Technology, Agartala, 21-23 January 2013.
- Attended “**ISTE Workshop on Solar Photovoltaics: Fundamentals, Technologies and Applications**” sponsored by Ministry of New and Renewable Energy, MHRD, conducted by Indian Institute of Technology- Bombay, 12th –22nd December 2011.
- Attended “**MATLAB Training**” organized by National Institute of Technology, Mizoram, 10th -14th October, 2011.
- Attended “**Project Based Training on Microcontroller**” conducted at Centre for Electronics Test Engineering, Kolkata, 2nd - 17th June, 2008.

Seminar/Symposia/Workshop Organized:

- Organized 2 days workshop on “**Labview and Multisim**” by Micro Pro-kolkata and National Instrument, India, in association with Mizoram University, 28th -29th April, 2014.

Research & Teaching Experience:

Research:	4 Years
Teaching (UG):	7 Years
PG+Ph.D:	3 Month

Total Number of Publications:

- Research Papers: 17 (Journal + Conference)
- Review Papers: Nil
- Books/Book Chapters: 5 (Book + Book Chapter)
- Articles in News Papers/Magazines etc.: Nil

Citation Details (as on 4th October 2018)

	Google Scholar	Scopus
h index	3	2
i10 index	2	0
Total Citations	39	26

Cumulative Impact factor: 6.46

Link for Google Scholar: [Google Scholar](#)

Link for Research Gate: [ResearchGate](#)

Scopus: [Scopus](#)

Research Guidance:

- | | | | |
|-----|---------|-------------|-----|
| i) | Ph.D : | Awarded: | Nil |
| | | Registered: | 2 |
| ii) | M.Tech: | Awarded: | Nil |
| | | Registered: | 2 |

Expert Talk/Chaired Technical Sessions:

- Expert Lecture on “**MATLAB Programming**” in National Institute of Technology Mizoram from February to May 2013.
- Special Lecture on “Electronic Devices” during the one day workshop on “**Career opportunities in ESDM Sector**” organized by IETE Imphal centre and Dept. of ECE, Mizoram University on 12/03/2014.

Full Details of Published Papers:

A. Book/Book Chapters

- **Book: 1**

- i. **Sadhan Gope** “Dynamic Optimal Power Flow with the Presence of Wind Farm” LAMBERT Academic Publishing, September, 2012. [ISBN-9783659233470].

- **Book Chapters: 4**

- i. **Sadhan Gope**, Subhojit Dawn, Rituparna Mitra, Arup Kumar Goswami and Prashant Kumar Tiwari, “Transmission Congestion Relief with Integration of Photovoltaic Power using Lion Optimization Algorithm”, Soft Computing for Problem Solving, Springer, eBook ISBN: 978-981-13-1592-3, 2018, *doi: 10.1007/978-981-13-1592-3-25*.
- ii. Subhojit Dawn, **Sadhan Gope**, “Maximization of Social Welfare by Enhancement of Demand Side Bidding in a Deregulated Power Market”, Soft Computing for Problem Solving, Springer, eBook ISBN: 978-981-13-1592-3, 2018, *doi: 10.1007/978-981-13-1592-3-39*.
- iii. **Sadhan Gope**, Arup Kumar Goswami and Prashant Kumar Tiwari, “Congestion Constraint Corrective Rescheduling in Competitive Power Market with Integration of Wind Farm”, Computer, Communication and Electrical Technology, CRC Press, Taylor & Francis Group, pp. 289–294 , Print ISBN: 978-1-138-03157-9, eBook ISBN: 978-1-315-40061-7, 2017, *doi: 10.1201/9781315400624-55*.
- iv. Subhojit Dawn, **Sadhan Gope**, Arup Kumar Goswami and Prashant Kumar Tiwari, “Optimal Demand-Side Bidding Using Evolutionary Algorithm in Deregulated Environment”, Advances in Intelligent Systems and Computing, Springer, Print ISBN 978-981-10-0447-6, Online ISBN 978-981-10-0448-3, 2016, *doi: 10.1007/978-981-10-0448-3-38*.

B. Journal Papers

- i. **Sadhan Gope**, Arup Kumar Goswami and Prashant Kumar Tiwari, “Impact Assessment of Bi-directional Solar Electric Vehicle in Competitive Electricity Market under Congested Transmission System”, Procedia Computer Science, Elsevier, 2018 (Accepted).

- ii. **Sadhan Gope**, Arup Kumar Goswami, and Prashant Kumar Tiwari, "Transmission Congestion Management using Wind Integrated Compressed Air Energy Storage System", *International Journal of Engineering Technology and Applied Science Research*, vol. 7, no. 4, pp. 1746-1752, 2017.
- iii. **Sadhan Gope**, Arup Kumar Goswami, and Prashant Kumar Tiwari, "Generator Rescheduling under Congested Power System with Wind Integrated Competitive Power Market", *Sensor and Transducer Journal*, IFSA publishing, vol. 209, no. 2, pp. 50-55, 2017.
- iv. **Sadhan Gope**, Arup Kumar Goswami, Prashant Kumar Tiwari and Subhasish Deb, "Rescheduling of real power for congestion management with integration of pumped storage hydro unit using firefly algorithm", *Electrical Power and Energy Systems*, Elsevier, vol. 83, pp. 434-442, 2016.
- v. Subhasish Deb, **Sadhan Gope**, Arup Kumar Goswami, "Congestion Management Considering Wind Energy Sources using Evolutionary Algorithm", *Electric Power Components and Systems*, Taylor & Francis, vol. 43, no. 7, pp. 723-732, 2015.
- vi. **Sadhan Gope**, "Optimal location and sizing of SSSC controller using Artificial Bee Colony Algorithm", *International Journal of Applied Engineering Research (IAER)*, vol.10, pp 99-108, 2015.
- vii. **Sadhan Gope** and Subir Datta, "Artificial Bee Colony Based Dynamic Optimal Power Flow of the Power System Including Wind Farm and Pumped Storage Hydro Unit", *International Journal of Electrical Engineering (IJEE)*, vol. 5, no. 2, pp. 173-184, 2012.

C. Conference Papers

- i. Rituparna Mitra, **Sadhan Gope**, Arup Goswami and Prashant Kumar Tiwari "Optimal Selection of Voltage Sag Mitigating Devices using Whale Optimization Algorithm for Small and Medium Sized Customers in Distribution System", *IEEE International Conference on Energy Power and Environment (ICEPE) 2018*.
- ii. Bibek Kanti Barman, Shiv Nath Yadav, Shivam Kumar and **Sadhan Gope** "IOT Based Smart Energy Meter for Efficient Energy Utilization in Smart Grid", *IEEE International Conference on Energy Power and Environment (ICEPE) 2018*.
- iii. **Sadhan Gope**, Rituparna Mitra, Arup Kumar Goswami and Prashant Kumar Tiwari "Congestion Mitigation Considering Solar Electric Vehicle: A Possible Solution for Today's Electricity Market", *IEEE conference on Technological Advancements in Power and Energy (TAP)*, pp. 1-6, 2017.
- iv. **Sadhan Gope**, Subhojit Dawn, Arup Kumar Goswami and Prashant Kumar Tiwari, "Moth Flame Optimization based Optimal Bidding Strategy under Transmission Congestion in Deregulated Power Market", *Proceedings of the IEEE International Conference (TENCON)*, pp. 617-627, 2016.
- v. Subhojit Dawn, Prashant Kumar Tiwari, **Sadhan Gope**, Arup Kumar Goswami and Prakash Kumar, "An Active Power Spot Price Based Approach for Congestion Management by Optimal Allocation of TCSC in Competitive Power

- Market”, Proceedings of the IEEE International Conference (TENCON), pp. 1480-1484, 2016.
- vi. **Sadhan Gope**, Subhojit Dawn, Arup Kumar Goswami and Prashant Kumar Tiwari, “Profit Maximization with Integration of Wind Farm in Contingency Constraint Deregulated Power Market using Moth Flame Optimization Algorithm”, Proceedings of the IEEE International Conference (TENCON), pp. 1462-1466, 2016.
 - vii. **Sadhan Gope**, Arup Kumar Goswami, Prashant Kumar Tiwari and Subhasish Deb, “Generator Rescheduling for Congestion Management using Firefly Algorithm”, IEEE International Conference on Energy Systems and Applications (ICESA), pp.39-43, 2015.
 - viii. Subhasish Deb, **Sadhan Gope** and Arup Kumar Goswami, “Real Power Rescheduling for Congestion Management with Integration of Wind Farm using Firefly Algorithm”, IEEE International Conference on Energy Power and Environment (ICEPE), 2015.
 - ix. Subhasish Deb, **Sadhan Gope** and Arup Kumar Goswami. “Generator Rescheduling for Congestion Management with incorporation of wind farm using Artificial Bee Colony Algorithm”, Annual IEEE India Conference (INDICON), 2013.
 - x. **Sadhan Gope** and Tanmoy Malakar, "Contingency Constraint Corrective Rescheduling with the Presence of Wind Farm", International Conference on Sustainable Energy and Intelligent System (SEISCON), pp. 1-6, 2011.