ASADUR RAHMAN (Ph.D)

Assistant Professor, Grade-I
Electrical Engineering Department
National Institute of Technology Srinagar,
Hazratbal, Srinagar – 190006, Jammu & Kashmir (India)
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EDUCATIONAL & ACADEMIC CREDENTIALS

Doctor of Philosophy (Ph.D.), Electrical Engineering - Power and Energy System, Aug' 2016
National Institute of Technology Silchar, Assam; CPI – 8.00

Master of Technology (M. Tech), Electrical Engineering - Power and Energy System, 2011
National Institute of Technology Silchar, Assam; CPI – 9.16 (**1st** position)

Bachelor of Technology (B. Tech), Electrical and Electronics Engineering, 2009
Gandhi Institute of Advanced Computer & Research, Rayagada; Biju Patnaik University of Technology, Orissa; CGPA-7.68

Title of Thesis / Dissertation

- **Ph.D.** on "Automatic Generation Control of Multi Area Power System under Conventional and Deregulated Environment Using Biogeography Based Optimized Three-degree-of-freedom (3DOF) Controllers"
- **M. Tech** Project on "Artificial Neural Network based Improved Pitch Control of Variable Speed Wind Energy Generating System using DFIG"
- **B. Tech** Hardware Project on "Industrial Protection System"

Technical Skills
MATLAB Programming & Simulation, Homer Energy, PLC, SCADA.

EMPLOYMENT RECORD

- **Assistant Professor, Grade-I** at **National Institute of Technology Srinagar**, Teaching, Research and Administrative, (4th Aug 2022 to Till-date)
- **Assistant Professor, Grade-II** at **National Institute of Technology Srinagar**, Teaching, Research and Administrative, (Oct' 2018 to 3rd Aug 2022)
- **Assistant Professor (Contract)** at **National Institute of Technology Nagaland**, Teaching & Research, 3 years (Aug' 2015 to July' 2018)
- **Assistant Professor** at **GIMT Guwahati, Assam**, Teaching, Research and Administrative, 2 years (Aug' 2011 to July' 2013)

Research Interests:

- Power System Optimization (Restructuring) & Control (LFC/AVR).
- Solar Energy Technologies (Solar PV & PV-T), Micro-grid & Hybrid energy system.
- Electric Vehicle (EV) - Charging Infrastructure & Grid Integration.
- Decarbonized Energy, Climate Control & Net Zero Energy Building.
- Soft Computing Techniques (Evolutionary Algorithms, Fuzzy logic, ANN) & their applications.

Academic Accolades

- **1st** position in M. Tech – Power & Energy system specialization, NIT Silchar, 2011.
- **No backlogs** during the entire academic programme.
- Qualified **GATE** (Electrical Engineering).
- Recipient of **Infosys Campus connect** program.
- **Vice-Chair**, IEEE Student Branch, NIT Silchar, 1.5 year, Organizing technical Events and Programs.
- **CSIR** Award (**1st prize**) for Project Model presentation at CSIR – IMMT (erstwhile RRL, Bhubaneswar).
- Won 2nd prize for Project Model Presentation at VIT University Vellore, Recipient of 2nd Prize in Group Discussion and 3rd Prize in Eloquence.
- Teaching Assistant (TA) during the period of M. Tech and Ph.D. studies at NIT Silchar.

Professional Accolades & Outreach Activities

- **Memorandum of Understanding (MoU)** with S.A.P Automations India Pvt. Ltd. on the way to NET ZERO ENERGY for Design Building Physics as per Climatic Conditions, Use of Decarbonized heat exchange for Space Conditioning and Hybridization of Renewable Electricity and Renewable Heat. https://nitsri.ac.in/uploaded_files/MOU_NITS_and_SAP_on_01.03.2023_(Signed).pdf
- Selected & Invited to **ATOMEXPO International Forum** and the **BRICS community meeting** in Olympic Village, Sochi, **Russian Federation** held on 19-22 November 2022. https://drive.google.com/file/d/1KQS8vOaEpj_Z8y3uO-eTQsPh6u0PROEr/view?usp=sharing
- **Convener** (Organizing Committee) of 5th International Conference on Energy Systems, Drives and Automations (ESDA-2022), 17th – 18th Dec 2022, Kolkata, West Bengal, India.
- **2nd prize winner** of Hindi Quiz competition among faculty & staff members – Oct 2022.
- **Project Reviewer** for Kerala State Council for Science, Technology & Environment (KSCSTE) – June 2022.
- **Publicity & Public Relation Chair** for 4th IEEE ICEPE-2022, NIT Meghalaya.
- **Session Chair** and Technical committee member in various International conferences, including IEEE ICEPE (NIT Meghalaya, Apr-2022); Springer Intl. Conf. on SIS (VRSEC, Feb-2021).
- Awarded as "***Developer***" for BRICS *Youth Energy Outlook* – 2020 Russia.
- Delivered **Invited Lectures** in several Technical sessions, Workshops, STC on topic "Power system control, Solar energy, EV infrastructure and grid-integration, Soft-Computing, etc."
- Organized as "***Chair***", Special Track titled "Performance Evaluation of Electrical Systems" at IEEE IAS International Conference on ComPE-2021, held at NEHU Shillong, Meghalaya from 1st – 3rd Dec 2021.
- **Best paper/poster award** with cash prize at 04 International Conferences [Springer FICTA-2022, Youth'25 Jaipuria 2022, IEEE-IAS ComPE 2021, IEEE-ICEPE 2015].
- **Coordinator** for design of Academic Curriculum (Scheme & Syllabus) for UG-2109 & PG-2020 Batch onwards, EE Dept., NIT Srinagar.
- Invited for **Exam paper setting** for Universities & Others.
- **External Examiner** for B. Tech (EE) final year major project evaluation, Principles of EE Lab examination.
- **Supervision:** *till date*

▪ ***Ph.D.***	: 02 (Awarded), 04 (Ongoing)	Total: 06
▪ ***M. Tech***	: 09 (guided), 03 (Ongoing)	Total: 09
▪ ***B. Tech***	: 16 (guided), 02 (Ongoing)	Total: 16

- Reviewer for several reputed journals like **IEEE** Trans. on EC (TEC), **IET**-GTD, RPG, **Elsevier** RENE, IJEPES, **Wiley**-OCAM, ITEES, Iranian Journal of Fuzzy Systems (IJFS), and others.

Vision Statement:

- **Short Term Goal**
  - ***a) Teaching:*** Impart up-to date technical knowledge and skills to produce well qualified engineers.
  - ***b) Research:*** Design and develop application oriented solutions, preferably identifying the local problems.
- **Long Term Goal**
  - ***a) Teaching:*** Creating a conducive atmosphere within the students to discover their own potential.
  - ***b) Research:*** To make this Institution a Centre of Excellence by applying technical expertise in solving real-life problems.

Research and Development (R&D) PROJECTS (Sponsored / Funded / Consultancy)

1. **A. Rahman* (PI)**, D.V. Siva Rao K; ***Externally funded*** R&D project titled "*An efficient and low-cost hot water supply to rural areas of Kashmir valley using solar PVT technology*" awarded by the Ministry of Education (MoE) for funding under the Swachhta Action Plan (SAP-2022) scheme for a period of 2 (two) year w.e.f 13th July 2023. Project cost is **INR 16,64,000/-** (Rupees sixteen lakhs sixty-four thousand only). [**Approved:** 07-11-2022]
2. **A. Rahman* (PI)**, Aijaz Ahmad; ***Sponsored*** R&D project titled "*Implementation and Testing of Solar Rooftop Photovoltaic-Thermal (PV-T) PORT technology*" awarded by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany for a period of 1 (one) year w.e.f 17th March 2022. Project cost is 42,000 Euros equivalent to **INR 35,20,566/-** (Rupees thirty-five lakhs twenty thousand five hundred and sixty-six only) @INR 83.82/euro. [**w.e.f** 17-03-2022]
3. S.J. Iqbal, **A. Rahman***, D.V. Siva; ***Consultancy*** project on "*Inspection of 20 kWp grid solar power plant established at Govt. Silk Factory Rajbagh under World Bank funded Jhelum Tawi Flood Recovery Project*" for M/s M.M. Shawl Engineers & Contractors Pvt. Ltd., Srinagar. [24-03-2022 to 09-06-2022]

PUBLICATIONS *Corresponding Author

Journals:

1. Z. Farooq*, **A. Rahman**, S.A. Lone, "Frequency stabilization of hybrid power system using robust secondary controller" ***Wiley*** *Optimal Control, Applications and Methods*,, Vol. 44 (6), 18th July' 2023 (Published), pp. 3306-3326. DOI: https://doi.org/10.1002/oca.3038 [**ISSN:** 1099-1514, **I.F**: 2.53]
2. D. Saha*, L.C. Saikia, **A. Rahman**, "Cascade controller based modeling of a four area thermal: gas AGC system with dependency of wind turbine generator and PEVs under restructured environment" ***Springer*** *Protection and Control of Modern Power Systems*, Vol. 7 (47), 21 Nov' 2022 (Published). DOI: https://doi.org/10.1186/s41601-022-00266-7 [**ISSN:** 2367-0983, **I.F**: 11]
3. S. Safiullah, **A. Rahman***, S.A. Lone, SMS Hussain, TS Ustun*, "Novel COVID-19 Based Optimization Algorithm (C-19BOA) for Performance Improvement of Power Systems" ***MDPI*** *Sustainability*, Vol. 14(21), 14287, 1 Nov' 2022 (Published). DOI: https://doi.org/10.3390/su142114287 [**ISSN:** 2071-1050, **I.F**: 3.9]
4. Z. Farooq, S. Safiullah, **A. Rahman***, SMS Hussain, TS Ustun*, "Evaluating the Optimal Electric Vehicle Location for a Hybrid Energy System Controlled with Novel Active Disturbance Rejection Controller" ***MDPI*** *World Electric Vehicle Journal*, Vol. 13(10), 192, Oct' 2022 (Published). DOI: https://doi.org/10.3390/wevj13100192 [**ISSN:** 2032-6653, **I.F**: 2.3]
5. S. Safiullah, **A. Rahman***, S.A. Lone, S.M. Suhail Hussain, T.S Ustun*, "Robust frequency-voltage stabilization scheme for multi-area power systems incorporated with EVs and renewable generations using AI based

modified disturbance rejection controller" ***Elsevier*** *Energy Reports*, Vol. 8, Sept.' 2022 (Accepted) and Nov' 2022 (Published), pp. 12186-12202.
DOI: https://doi.org/10.1016/j.egyr.2022.08.272 [**ISSN:** 2352-4847, **I.F**: 5.2]

6. S. Safiullah, **A. Rahman***, S.A. Lone, "A 2nd order ADRC for Synchronized Frequency-Voltage mitigation of EV Integrated Power System" ***T&F IETE*** *Journal of Research*, 25th Aug 2022 (Accepted)
DOI: http://dx.doi.org/10.1080/03772063.2022 [**ISSN:** 0974-780X, **I.F**: 2.3]
7. S. Safiullah, **A. Rahman***, S.A. Lone, "A 2nd order Active Disturbance Rejection Controller for coordinated frequency-voltage control of deregulated hybrid power system with optimal electric-vehicle integration" ***Elsevier*** *Electrical Power System Research (EPSR)*, Vol. 210, 108129, 18th May 2022 (Accepted) and 7th June' 2022 (Published). DOI: https://doi.org/10.1016/j.epsr.2022.108129 [**ISSN:** 0378-7796, **I.F**: 3.9]
8. Z. Farooq, **A. Rahman***, S.A. Lone, "Multi-stage fractional-order controller for frequency mitigation of EV based hybrid Power System" ***T&F IETE*** *Journal of Research*, Vol. - (-), 29th Mar 2022 (Accepted) and 20th April' 2022 (Published). DOI: https://doi.org/10.1080/03772063.2022.2061609 [**ISSN:** 0974-780X, **I.F**: 2.3]
9. S. Safiullah, **A. Rahman***, "Performance Evaluation of Hybrid Power System Incorporating Electric-Vehicles" ***River Publishers*** *Distributed Generation & Alternative Energy Journal,* Vol. 37(4), pp. 1055–1082, 6th Feb' 2022 (Accepted) and 25th April' 2022 (Published).
DOI: https://doi.org/10.13052/dgaej2156-3306.3748 [**ISSN:** 2156-6550, **I.F**: 1.0]
10. Z. Farooq, **A. Rahman***, S.A. Lone, "Power generation control of restructured hybrid power system with FACTS and energy storage devices using optimal cascaded fractional-order controller" ***Wiley*** *Optimal Control, Applications and Methods*, Special Issue: Optimal Operational Controls for Power Grid, Vol. 43, Issue 3, pp. 757–786, 20th Dec 2021 (Accepted) and 25th Jan' 2022 (Published).
DOI: https://doi.org/10.1002/oca.2850 [**ISSN:** 1099-1514, **I.F**: 2.53]
11. Z. Farooq, **A. Rahman***, S.M. Hussain, T.S. Ustun* "Power Generation Control of Renewable Energy Based Hybrid Deregulated Power System" ***MDPI*** *Energies*, Vol. 15(2), 517, 6th Jan' 2022 (Accepted) and 12th Jan' 2022 (Published). DOI: https://doi.org/10.3390/en15020517 [**ISSN:** 1996-1073, **I.F**: 3.2]
12. S. Safiullah, **A. Rahman***, S.A. Lone, "Optimal control of electrical vehicle incorporated hybrid power system with second order fractional-active disturbance rejection controller" ***Wiley*** *Optimal Control, Applications and Methods*, Special Issue: Optimal Design and Operation of Energy Systems, Vol. 44, Issue 2, pp. 905-934, 4th Nov' 2021 (Accepted) and 25th Nov' 2021 (Published).
DOI: https://doi.org/10.1002/oca.2826 [**ISSN:** 1099-1514, **I.F**: 2.53]
13. S. Safiullah, **A. Rahman***, S.A. Lone, "State-observer based IDD controller for concurrent frequency-voltage control of a hybrid power system with electric vehicle uncertainties" ***Wiley*** *International Transactions of Electrical Energy System*, Vol. 31 (11), 15th August' 2021 (Accepted) and 11th Oct' 2021 (Published).
DOI: https://doi.org/10.1002/2050-7038.13083 [**ISSN:** 2050-7038, **I.F**: 2.86]
14. Z. Farooq, **A. Rahman***, S.A. Lone, "System Dynamics and Control of EV incorporated Deregulated Power System using MBO optimized Cascaded ID-PD controller" ***Wiley*** *International Transactions of Electrical Energy System*, Vol. 31 (11), 29th Aug' 2021 (Accepted) and 15th Sept' 2021 (Published).
DOI: https://doi.org/10.1002/2050-7038.13100 [**ISSN:** 2050-7038, **I.F**: 2.86]
15. Z. Farooq, **A. Rahman***, S.A. Lone, "Load frequency control of multi-source electrical power system integrated with solar-thermal and electric vehicle" ***Wiley*** *International Transactions of Electrical Energy System*, Vol. 31 (7), 12th April' 2021 (Accepted) and 6th May' 2021 (Published).
DOI: https://doi.org/10.1002/2050-7038.12918 [**ISSN:** 2050-7038, **I.F**: 2.86]
16. **A. Rahman***, L. C. Saikia, N. Sinha. "Automatic generation control of an interconnected two-area hybrid thermal system considering dish-stirling solar thermal and wind turbine system" ***Elsevier*** *Renewable Energy*, Vol. 105, pp. 41–54, May 2017.
DOI: https://doi.org/10.1016/j.renene.2016.12.048 [**ISSN:** 0960-1481, **I.F**: 8.7]
17. **A. Rahman***, L. C. Saikia, N. Sinha. "Automatic Generation Control of an Unequal Four Area Thermal System Using Biogeography Based Optimised 3DOF-PID Controller" ***IET*** *Generation, Transmission &*

Distribution, Vol. 10, Issue. 16, pp. 4118–4129, Dec 2016.
DOI: https://doi.org/10.1049/iet-gtd.2016.0528 [**ISSN:** 1751-8695, **I.F**: 2.5]

18. **A. Rahman***, L. C. Saikia, N. Sinha. "Maiden application of hybrid pattern search biogeography based optimisation technique in automatic generation control of a multi-area system incorporating interline power flow controller" ***IET*** *Generation, Transmission & Distribution*, Vol. 10, Issue. 7, pp. 1654–1662, 12 May 2016. DOI: https://doi.org/10.1049/iet-gtd.2015.0945 [**ISSN:** 1751-8695, **I.F**: 2.5]
19. **A. Rahman***, L. C. Saikia, N. Sinha. "AGC of dish-Stirling solar thermal integrated thermal system with biogeography based optimised three degree of freedom PID controller" ***IET*** *Renewable Power Generation*, Vol. 10, Issue. 8, pp. 1161-1170, 03 May 2016.
DOI: https://doi.org/10.1049/iet-rpg.2015.0474 [**ISSN:** 1752-1424, **I.F**: 2.6]
20. **A. Rahman***, L. C. Saikia, N. Sinha. "Load frequency control of a hydro-thermal system under deregulated environment using biogeography-based optimised three-degree-of-freedom integral-derivative controller" ***IET*** *Generation, Transmission & Distribution*, Vol. 9, Issue. 15, pp. 2284–2293, 16 November 2015.
DOI: https://doi.org/10.1049/iet-gtd.2015.0317 [**ISSN:** 1751-8695, **I.F**: 2.5]

Conferences:

1. N.A. Ganie, Z.H. Rather, Z. Farooq, **A. Rahman***, "Economic feasibility of SPV integrated EV Charging Infrastructure for NIT Srinagar Institutional Campus in J&K, India" IEEE International Conference on Power, Instrumentation, Energy and Control (PIECON-2023), AMU Aligarh, pp. 1-6, 10th – 12th February 2023, 4th April 2023 (Published online).
DOI: https://doi.org/10.1109/PIECON56912.2023.10085893 **ISBN**: 979-8-3503-9976-9
2. Z. H. Rather, S. Safiullah, **A. Rahman***, S.A. Lone, "Technical Feasibility of EV Infrastructure with Renewable Power Integration: A Case Study at NIT Srinagar" Department of Mechanical Engineering, Malla Reddy College of Engineering and Technology, Hyderabad, India, Springer 4th International Conference on Intelligent Manufacturing & Energy Sustainability (ICIMES), June 24 - 25, 2022.
3. S. Safiullah, **A. Rahman***, S.A. Lone, "A Novel COVID-19 Based Optimization Algorithm (C-19BOA) for Multimodal Optimization Processes" Springer 10th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022), NIT Mizoram, June 18 - 19, 2022.
4. Zahid Farooq*, Sheikh Safiullah, **Asadur Rahman**, "Load frequency control of hybrid power system using modified disturbance rejection controller", *IEEE 4th International Conference on Energy, Power and Environment (ICEPE-2022)*, NIT Meghalaya, Shillong, pp. 1-6, 29th April – 1st May 2022, 20th June 2022 (Published online). **DOI:** https://doi.org/10.1109/ICEPE55035.2022.9798040 **ISBN**: 978-1-6654-7124-4
5. Sheikh Safiullah*, **Asadur Rahman**, Zahid Farooq, "Techno-economic feasibility of electric vehicles for power system operations" *9th International Conference in the Series of Youth 2025 on Envisioning India's Future*, Jaipur, 17-19 Feb 2022.
6. Sheikh Safiullah, **A. Rahman***, Mohd. Asim Aftab, S.M. Suhail Hussain, "Performance study of ADRC and PID for concurrent Frequency-Voltage Control of Electric Vehicle Incorporated Hybrid Power System", *IEEE Intl. Conf. on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)*, GRIET Hyderabad, 2-5 Jan 2022, 25th Feb 2022 (Published online).
DOI: https://doi.org/10.1109/PESGRE52268.2022.9715937 **ISBN**: 978-1-6654-4837-6
7. Zahid Farooq, **A. Rahman***, S.A. Lone, "Fuzzy and MBO optimized Load Frequency Control of hybrid Power System", *IEEE 18th India Council International Conference INDICON*, IIT Guwahati, pp. 1-6, 19-21 Dec' 2021, 1st Feb 2022 (Published online).
ISSN: 2325-9418 [**DOI:** https://doi.org/10.1109/INDICON52576.2021.9691624], **ISBN**: 978-1-6654-4175-9
8. Malik Suhaib Aijaz, **A. Rahman***, Sheikh Safiullah, "Optimal Control of a Two-Area Hybrid Microgrid System Incorporating Electric Vehicles", *IEEE-IAS International Conference on Computational Performance Evaluation (ComPE-2021)*, NEHU Shillong, pp. 716-721, 1-3 Dec' 2021, 12th April 2022 (Published online). **DOI:** https://doi.org/10.1109/ComPE53109.2021.9752415 **ISBN:** 978-1-6654-3656-4

9. **A. Rahman***, L.C. Saikia, Y. Sharma "AGC of Hybrid Power System with Grey Wolf Optimizer Based Conventional Secondary" *IEEE Intl. Conference on Sustainable Energy and Future Electric Transportation SeFeT-2021*, Hyderabad, India, pp. 1-6, 21-23 Jan' 2021, 16th Mar 2021 (Published online).
DOI: https://doi.org/10.1109/SeFet48154.2021.9375685 **ISBN**: 978-1-7281-5681-1
10. **A. Rahman***, L.C. Saikia, Y. Sharma "AGC of Hybrid Solar-Hydro-Thermal System with GWO Based Conventional Secondary Controllers" *Springer 1st Intl. conference on Emerging Global Trends in Engineering and Technology EGTET -2020*, ADBU, Guwahati Assam, 06-07 Mar' 2020.
11. **A. Rahman**, S. Sahu, L.C. Saikia, P. Dash. "AGC of a Multi-Area Thermal-CCGT System Using Cuckoo Search Optimized Classical Controllers" *IEEE Intl. Conf. on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)*, NIT Meghalaya, pp. 1-6, 12 – 13 June' 2015, 14th July 2016 (Published online).
DOI: https://doi.org/10.1109/EPETSG.2015.7510099 **e-ISBN:** 978-1-4673-6503-1
12. J.P. Mishra, D. Hore, **A. Rahman** "Fuzzy Logic based improved Active & Reactive power control operation of DFIG for wind power generation." *IEEE 8th International Conference on Power Electronics and ECCE Asia (ICPE & ECCE)*, Korea, pp. 654-661, May 30 – June 3' 2011.
[**DOI:** https://doi.org/10.1109/ICPE.2011.5944631] **e-ISBN:** 978-1-61284-957-7

Book:

1. S. Tanweer, **A. Rahman**, 'Power System Analysis by Distributed Generation', ***LAP Lambert Academic Publishing***, *Germany*, 2014. [**ISBN:** 978-3-659-49828-2]

Book Chapter:

1. Z. H. Rather, S. Safiullah, **A. Rahman***, S.A. Lone, "Technical Feasibility of EV Infrastructure with Renewable Power Integration: A Case Study at NIT Srinagar" ***Springer Nature Singapore*** *Series Title*: *Smart Innovation, Systems and Technologies (SIST), Book Title*: Intelligent Manufacturing and Energy Sustainability, Vol. 334, Pages 441-449, 21st June' 2023 (Publication date). **Online ISBN:** 978-981-19-8497-6
2. Sheikh Safiullah*, **Asadur Rahman**, Shameem Ahmad Lone, "A Novel COVID-19-Based Optimization Algorithm (C-19BOA) for Multimodal Optimization Processes" ***Springer Nature Singapore*** *Series Title*: *Smart Innovation, Systems and Technologies (SIST), Book Title*: Evolution in Computational Intelligence: FICTA 2022, Vol. 326, pages 211-222, 26th April' 2023 (Publication date).
DOI: https://doi.org/10.1007/978-981-19-7513-4_19 **Online ISBN:** 978-981-19-7513-4
3. Sheikh Safiullah*, **Asadur Rahman**, Zahid Farooq, "Techno-economic feasibility of electric vehicles for power system operations" ***Bloomsbury*** Publishing India Pvt. Ltd. New Delhi, *Book Title*: Envisioning India's Future, pages 102-111, 2022. [**ISBN:** 978-93-54358-06-7]
4. **A. Rahman***, L.C. Saikia, Y. Sharma, "AGC of Hybrid Solar-Hydro-Thermal System with GWO Based Conventional Secondary Controllers" ***Springer Nature Singapore*** *Series Title*: Lecture Notes in Electrical Engineering (LNEE), *Book Title*: Emerging Technologies for Smart Cities, Vol. 765, pages 85-95, 12th June' 2021 (Publication date). **DOI**: [**ISBN:** 978-3-659-49828-2]

MEMBERSHIP & RESPONSIBILITIES

Professional Bodies Membership

❖ IEEE, USA	Member (M' 19)	95349054
❖ ISTE, India	Life Member	LM 83195
❖ Institution of Engineers, India	Member	M-1770521
❖ Solar Energy Society of India (SESI)	Life Member	LM/2406/2020
❖ Soft Computing Research Society	Life Member	020-08-26-1294

Administrative Responsibilities

- Incharge – RTI & Grievance Cell, NIT Srinagar, 12-Feb-2019 to 2020.
- Institute Coordinator – NBA Criteria 3, Dec' 2019 – Aug' 2021.
- Institute Coordinator – NIRF Graduation Outcomes (GO), Sept' 2020 onwards.
- Coordinator – GATE Coaching EE Department, Dec' 2020 onwards.
- Training & Placement coordinator, GIMT Guwahati, 1 year, Training & placement activities.
- Vice-Chair, IEEE Student Branch, NIT Silchar, 1.5 year, Organizing technical Events and Programs.

Departmental Responsibilities

- NBA Coordinator, EED – Sept 2022 onwards.
- Member, Departmental Postgraduate Committee (DPGC) – Dec' 2022 onwards.
- Incharge (Examinations) – EE Department, Nov' 2020 – Apr' 2023.
- Lab Incharge – Electrical Energy System, Nov' 2019 onwards.
- Coordinator - M. Tech Electrical Power & Energy systems (EPES), Nov' 2019 onwards.
- Coordinator – EED UG Scheme & syllabus revision, June' 2019 onwards.
- Faculty coordinator – EED Students Club, May' 2019 onwards.
- Member – Publicity & Printing committee to conduct STC/Workshops/etc., Mar' 2019 onwards.
- Lab Incharge – Basic Electrical Engineering, Nov' 2018 onwards.

Member of Committees

- Member – LIRC, Apr' 2023 onwards.
- Faculty Incharge - NBA criteria 3, Feb' 2019 onwards.
- Member – Write-off committee, Nov' 2019.
- Organizing Member, Annual Techno-cultural event Ekarikthin' 17, NIT Nagaland, 31 Mar – 02 Apr' 2017.
- Committee Member, International Conference on ETNMST-2017, NIT Nagaland, 4-6 Jan' 2017.
- Academic Programme Implementation Committee (Member), NIT Nagaland, Aug' 2016.
- Annual Report preparation (Member), NAAC, NIT Nagaland, Nov' 2016.
- Annual Report preparation (Member), NIT Nagaland, June' 2016.
- Selection Committee member (Subject Expert), NU-SET, Nagaland University, Dimapur, Nagaland, Feb & Mar' 2016.
- External Examiner, GIMT-Tezpur (Gauhati University, Assam), May' 2013.

EVENTS Organised

CONFERENCE:

- Special Session on "Performance Evaluation of Electrical Systems" in IEEE-IAS International Conference on Computational Performance Evaluation (ComPE)-2021 at NEHU, Shillong, Meghalaya held on 1-3 Dec' 2021. [IEEE Conference ID – 53109]

WORKSHOP / SEMINAR / TRAINING / STC:

- One-day seminar on "*NET ZERO & Decarbonized Building*" jointly organized by EE Dept. and Mechanical Engg. Dept., NIT Srinagar, 2nd Mar' 2023. **[Coordinator]**
- One-day seminar on "*Development of Electrical Power Industry* - changes in the legislation and the consequences" on the eve of Engineer's day, 15th September 2022. **[Coordinator]**
- One-week Workshop on '*Patent Filing'* jointly organized by EE Dept. and Civil Engg. Dept., NIT Srinagar, 20-24 June' 2022. [**Coordinator**]

- One-day "Safety Awareness Workshop" and Acclamation Ceremony for Field Workers & Electrical Engineers of KPDCL by EED in collaboration with IIED Centre, NIT Srinagar, 2nd April 2022. [**Coordinator**]
- One-week e-Workshop on '*Power System Control - A Smart Approach'* by EED, NIT Srinagar, 11-15 Dec' 2020. [**Convener**]
- One-week e-Workshop on '*Smart Power & Energy System*' by EED, NIT Srinagar, 30th Oct – 3rd Nov' 2020. [**Convener**]
- One week TEQIP – III sponsored online Short Term Course (STC) on Energy and It's Applications, organized by Chemical Engg. Department, NIT Srinagar, 8-12 Sept.' 2020. [**Coordinator**]
- One week TEQIP – III sponsored online FDP on Soft Computing Techniques (SCT-2020) organized by EE Department, NIT Srinagar, 25 – 30 July' 2020. [**Convener**]
- *Special Lecture under Twinning Activity* by Prof. Debapriya Das (EED, IIT Kharagpur) on 1st July' 2019 at NIT Srinagar. [**Coordinator**]
- One week TEQIP – III sponsored Short Term Course on "Renewable Energy in Science, Engineering & Technology (RESET-2019)" by EE Dept., NIT Srinagar, 1–5 July' 2019. [**Coordinator**]
- One week TEQIP – III sponsored Workshop on "Power Electronics: Applications in Renewable Energy Systems" by EE Department, NIT Srinagar, 22-26 April' 2019. [**Convener**]
- One-Day Workshop on "Writing Magic with Latex", NIT Nagaland, May' 2016.
- Workshop on "Internet of Things" by EEE dept., NIT Nagaland in collaboration with National Instruments, July' 2016.
- IEEE Authorship Workshop – 2015, IEEE Kolkata section, Feb' 2015.
- Industrial visit to 1.5 MW bio-gas plant, Cachar (Assam), Jan' 2015.
- Expert Lecture on "Effect of Distributed Generation power penetration on distribution networks" by Prof. Debapriya Das, IIT Kharagpur at EE dept. NIT Silchar, Dec' 2014.
- Product Demonstration & Installation of "Solar-Thermal, Solar-PV and Wind Power Technologies" by Ecosense Sustainable Solutions Pvt. Ltd., New Delhi at NIT Silchar, Dec' 2014.

EVENTS Attended

TRAININGS:

- AICTE approved QIP on Hydroelectric Power Development, IIT Guwahati, Dec' 2011.
- Business Skill Development Program under MSME, Orissa, 2009.
- Industrial DRIVES Course at IGIAT, Visakhapatnam, 23rd June-5th July' 2008.
- PLC & SCADA Course at IGIAT, Visakhapatnam, 5th June -5th July' 2008.
- Industrial Training in Load Dispatch Centre at OPTCL, Bhubaneswar, 22nd May – 28th June' 2007.

WORKSHOP / SEMINAR / STC:

- ***Participated*** in the Research Webinar "*Ethical Issues In Peer Review"* organized by John Wiley & Sons on 11th May' 2021.
- ***Participated*** in the IEI Technical Webinar on the theme "*Renewable Energy Projects - Management and Challenges*" organized by The Institution of Engineers (India) under the aegis of Electrical Engineering Division on 03/11/2020.
- ***Attended*** SCRS Expert Lecture Series on "*Machine Learning Using Python*" organized by Soft Computing Research Society, New Delhi from August 24th – 28th, 2020.
- **Participated** in the International Symposium on "*Energy and Sustainable Development: A Gandhian Approach*" organized by IIT Patna and Universitas Alburgensis on 7th Aug' 2020.

EXTRA-CURRICULAR ACTIVITIES

- Completed First–Aid course with ST. John Ambulance, Orissa Centre.
- Completed "Business skill development programme" under MSME, Orissa centre.
- Participated in several Social Work Programs.
- Event Organizer for several School and College Annual Functions.

Hobbies: Couplets, Solving Puzzles, Traveling.

Languages Known: English, Hindi, Assamese, Bengali, Urdu, Oriya.

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References: Available on Request.

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