

ARNAB PAL

PhD Research Scholar (SRF)

Address: Department of Electrical Engineering, NIT Agartala, Tripura. PIN-799046

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Career Objective

To begin my career at a technical institution where I can enhance my teaching quality, research publication, work efficiency and expand my experiences.

Technical Qualification

Discipline: Pursuing Full-Time PhD (2018-Present)	Discipline: M.Tech in Power System (2016-2018)	Discipline: B.Tech in Electrical Engineering (2012-2016)
Institution: National Institute of Technology Agartala	Institution: National Institute of Technology Agartala	Institution: Govt. College of Engineering and Textile Technology, Berhampore
Research Area: Optimal Planning of Electric Vehicle Charging Station	Specialization: Power System, Electrical Engineering	University: West Bengal University of Technology (Presently known as MAKAUT)
Thesis Title: Placement of Electric Vehicle Charging Stations in Distribution System Considering Road Network and Uncertainties	Dissertation Title: Optimal Allocation of Distributed Generation for Loss Minimization and Voltage Profile Improvement	Stream: Electrical Engineering
Course Work CGPA: 8.75	CGPA: 8.80	Project Title: Speed Control of Stepper Motor Using Arduino Uno and Android Application
Note: On the verge of completion.		CGPA: 7.41

❖ **GATE All India Rank (2016):** 4496

Academic Qualification

Examination	Institution	Board	Year of Passing	Result
Higher Secondary	Burdwan Town School	W.B.C.H.S.E	2012	64.8%
Secondary	Chakdighi S.P. Institution	W.B.B.S.E	2010	80.5%

Industrial Training

Organization/Industry	Topic of training	Period
Damodar Valley Corporation (DVC) Andal	Power Plant Overview	1st July-15th July, 2015
Durgapur Projects Limited (DPL)	Power Plant Overview	13th June-12th July, 2014

Publication

❖ **Citations:** 77, H-Index: 5, i10 Index: 2 (till date); **Link:** [Google Scholar](#)

❖ **Peer reviewer of reputed journals and conferences.**

International Journals (SCI/SCIE):

- Arvind Kumar, **Arnab Pal**, and Ram Naresh Rai. "MOGA optimisation of wear performance of stir cast AA7050/B4C-T6 ex-situ metal matrix composite", International Journal of Materials and Product Technology 60.2-4 (2020): 180-194.
- Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty. "Allocation of electric vehicle charging station considering uncertainties", Sustainable Energy, Grids and Networks, Elsevier; vol. 25, pp. 100422; 2021.
- Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty. "Placement of Electric Vehicle Charging Station and Solar DG in Distribution System considering Uncertainties", Article in Press, Scientia Iranica, 2021.
- Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty. "Placement of Public Fast-Charging Station and Solar Distributed Generation with Battery Energy Storage in Distribution Network Considering Uncertainties and Traffic Congestion", Journal of Energy Storage, vol. 41, pp. 102939; 2021.
- Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty. "Allocation of EV Public Charging Station in Renewable based Distribution Network using HHO Considering Uncertainties and Traffic Congestion" Soft computing; 2021. (Preprint).
- Bishwajit Dey, Sourav Basak, **Arnab Pal**. "Demand-side management based optimal scheduling of distributed generators for clean and economic operation of a microgrid system", International Journal of Energy Research, Wiley, 2022.
- Bishwajit Dey, Sourav Basak, **Arnab Pal**, Fausto Pedro García Márquez, "Better compromised solution between cost and emission of nonlinear dynamic system", Journal of Electrical Engineering & Technology, 2022. (Communicated)

International Journals (SCOPUS):

- Arnab Pal**, Ajoy Kumar Chakraborty, and Arup Ratan Bhowmik. "Optimal placement and sizing of DG considering power and energy loss minimization in distribution system." International Journal on Electrical Engineering and Informatics 12.3 (2020): 624-653.

International Conferences:

- Arnab Pal**, Ajoy Kumar Chakraborty, Arup Ratan Bhowmik, Bhaskar Bhattacharya, "New Algorithms for DG Allocation with Less Execution Time to Minimize the Power Loss". Proceedings of IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT), Mysore, 15th – 16th December, 2017.
- Arnab Pal**, Ajoy Kumar Chakraborty, Arup Ratan Bhowmik, Bhaskar Bhattacharya, "Optimal Placement of DG Units in Distribution Network Using APCSA and OBOSA for Power Loss and Execution Time Minimization". Proceedings of IEEE International Conference on Computer, Electrical and Communication Engineering (ICCECE-2017), Kolkata, 22nd – 23rd December, 2017.
- Arnab Pal**, Ajoy Kumar Chakraborty, Arup Ratan Bhowmik, Bhaskar Bhattacharya, "Optimal DG Allocation for Minimizing Active Power Loss with Better Computational Speed and High Accuracy". Proceedings of IEEE International Conference on Recent Advances in Information Technology, IIT Dhanbad.
- Arnab Pal**, Soumesh Chatterjee, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty; "Optimal Design of Microgrid with Demand Side Management in Presence of Electric Vehicle"; 2020 IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC), VNIT Nagpur, India, 25th - 26th September, 2020
- Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty; "Allocation of EV Fast Charging Station with V2G Facility in

Distribution Network"; 2019 8th International Conference on Power Systems (ICPS), MNIT Jaipur, India, 20th – 22nd December, 2019.

14. **Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty; "Planning of EV Charging Station with Renewable based Generation in an Overlaid Network Considering Uncertainty and Traffic Flow"; 2021 IEEE International Conference on Computing, Power and Communication Technologies (GUCON), Kuala Lumpur, Malaysia 2021.
15. **Arnab Pal**, Sourav Das, Ajoy Kumar Chakraborty, Parimal Acharjee and Aniruddha Bhattacharya "Cost Benefit Analysis of EV Charging Scheduling under Stochastic Framework Considering PV and Battery Energy Storage" IEEE International Conference on Smart Technologies for Power, Energy and Control (STPEC 2021), Bilaspur, C.G. India.
16. Sourav Das, **Arnab Pal**, Parimal Acharjee, Ajoy Kumar Chakraborty and Aniruddha Bhattacharya, "Uncertainty based Electric Vehicle Charging Scheduling with V2G feature considering Photovoltaic and Battery Energy Storage" IEEE International conference on "Power Electronics, Smart Grid and Renewable Energy (PESGRE 2022), Trivandrum, Kerala, India.
17. Dhritiman Adhya, **Arnab Pal**, Ajoy Kumar Chakraborty, Aniruddha Bhattacharya, "Machine Learning Application for Prediction of EV Charging Demand for the Scenario of Agartala, India" IEEE 4th International Conference on Energy, Power and Environment (ICEPE 2022), NIT Meghalaya. Accepted.
18. Sourav Das, **Arnab Pal**, Parimal Acharjee, Ajoy Chakraborty and Aniruddha Bhattacharya, "Planning for Allocating Renewable Supported Charging Station with Intelligent Charging Scheduling in Distribution Network" IEEE 1st International Conference on Sustainable Technology for Power and Energy Systems (STPES 2022), NIT Srinagar, IIT Jammu. Communicated.
19. **Arnab Pal**, Sourav Das, Ajoy Kumar Chakraborty, Parimal Acharjee and Aniruddha Bhattacharya, "Optimal Allocation of Parking Lot with Intelligent Charging Scheduling of Electric Vehicles in Distribution System" IEEE 1st International Conference on Sustainable Technology for Power and Energy Systems (STPES 2022) NIT Srinagar, IIT Jammu. Communicated.

National Conferences:

20. **Arnab Pal**, Ajoy Kumar Chakraborty, Aniruddha Bhattacharya, "Wind Energy and Hybrid Power System: A review". All India Seminar on Scope and Opportunity of Small Hydro & Wind Power in NER of India, NIT Mizoram, 2nd – 3rd August 2019.
21. Kaustav Bhattacharjee, **Arnab Pal**, Ajoy Kumar Chakraborty, Aniruddha Bhattacharya, Arup Ratan Bhowmik, "Electric Vehicle Charging and Vehicle to Grid Technology: A review paper". All India Seminar on Scope and Opportunity of Small Hydro & Wind Power in NER of India, NIT Mizoram, 2nd – 3rd August 2019.

International Book Chapters:

22. **Arnab Pal**, Aniruddha Bhattacharya, and Ajoy Kumar Chakraborty, "Planning of Electric Vehicle Charging Station with Integration of Renewables in Distribution Network", Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization, Springer-Book, 2022. (Article in Press)
23. Sourav Das, **Arnab Pal**, Parimal Acharjee, Ajoy Kumar Chakraborty and Aniruddha Bhattacharya, "Multilevel Planning for Smart Charging Scheduling for On Road Electric Vehicles Considering Seasonal Uncertainties", Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid: Modeling, Control and Optimization, Springer-Book, 2022. (Article in Press)

Technical Programme (Workshop/Webinar)

- Student coordinator of five days short term training programme on "Smart Grid and Energy Market" at NIT Agartala on 27th – 31st August 2018.
- Presented in webinar of electrical engineering division of the Institution of Engineers (India), Tripura state centre on the topic of "Placement of Electric Vehicle Charging Station Network" on 15th May, 2021.
- Attended more than 30 workshop/Short term training programme/webinar.

Research Interest

Electric Vehicle, Engineering Optimization, Distributed Generation, Distribution Network, Power System, Renewable Energy, Demand Side Management and Application of Machine Learning.

Computer Skill

MATLAB Programming, MATLAB Simulink, PSCAD, ETAP, Python programming, MS Word/Excel/PowerPoint/Visio, Adobe Photoshop.

Extra-Curricular

Drawing and Table.

Strength

I can put enough effort into my work, can spend significant time, can take responsibility to coordinate any program and handle official/departmental work with very sincerity, punctuality and honesty.

Personal Details

Name:	Arnab Pal
Father's Name:	Lakshmi Narayan Pal
Date of Birth:	08/09/1994
Gender:	Male
Nationality:	Indian
Permanent Address:	Shukpur, Chakdighi, Jamalpur, Purba Bardhaman, West Bengal -713404
Language:	English, Hindi and Bengali

Declaration

I hereby declare that all the above-mentioned information is correct to the best of my knowledge and belief and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Agartala

Date: 01/05/2022

Arnab Pal.

(Arnab Pal)