

## RESUME

### ATMA RAM GUPTA

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### ACADEMIC QUALIFICATION

Exam passed	Board/ University	Institute	Year of Passing	Grade Point/ Marks	Class/ Division
B.Tech (Electrical Engineering)	Biju Patnaik University of Technology, Rourkela	C. V. Raman College of Engineering, Bhubaneswar	2005-2009	7.36	1 <sup>st</sup>
M.Tech (Electrical Engineering)	National Institute of Technology Durgapur	National Institute of Technology Durgapur	2010-2012	8.76	1 <sup>st</sup>
Ph.D (Electrical Engineering)	National Institute of Technology Kurukshetra	National Institute of Technology Kurukshetra	2013-2018	NA	NA

**Ph.D Thesis title:** Distribution system analysis with Distributed Generation and D-FACTS integration

**M.Tech dissertation title:** Development of microcontroller based calibration facilities for ICT enabled AC High voltage test system

**B.Tech project title:** Microcontroller Based Equipment Protection.

### EXPERIENCE DETAILS

SL No	Organization	Designation	Duration
1	NSHM Knowledge Campus-Group of Institutions , Durgapur	Assistant Professor	1 <sup>st</sup> Aug 2012-02 <sup>nd</sup> March 2013
2	NIT Kurukshetra, Haryana, India	Assistant Professor	04 <sup>th</sup> March 2013- till date.

## SCHOLARSHIP

- MHRD GATE scholarship during M.Tech in NIT Durgapur (2010-12).

## ACHIEVEMENTS

- Secured **93.61** percentile in **GATE-2010** and **94.68** percentile in **GATE-2013** in Electrical Engineering stream
- *Received best paper award* Mukesh Prasad Agarwal and Dr. **Atma Ram Gupta** for the paper entitled "**TRAX: Smart Mobile Application to Improve the Safety and Security of Automobile Vehicles**", which is accepted to publish in Lecture Notes in Networks and Systems (**Springer LNNS Series**).
- Selected as an **Assistant Professor** of Darbhanga Govt. Engineering College, Bihar from DST (Bihar) in 2013.

## PUBLICATIONS DETAIL

**ORCID ID: 0000-0002-4759-493X**

**Scopus ID: 57188741793**

**Researcher ID: A-3198-2016**

**Google Scholar ID: yxCym50AAAAJ**

**Vidwan-ID: 131066**

### National/International Journals: 12

1. **Atma Ram Gupta**, Ashwani Kumar, "Reactive power deployment and cost benefit analysis in DNO operated distribution electricity markets with D-STATCOM" **Frontiers in Energy (Springer)**, Vol. 13, No.1, pp. 86-98, 2019. ISSN: 2095-1701 (Print) 2095-1698 (Online). DOI: 10.1007/s11708-017-0456-8. (*Indexed in SCIE, Scopus, Web of Science, Inspec*). **Impact Factor 2.657.**
2. **Atma Ram Gupta**, Ashwani Kumar, "Comparison of Deterministic and Probabilistic Radial Distribution Systems Load Flow" **Journal of The Institution of Engineers: Series B. (Springer)**. Vol. 98, No. 6, pp.547-556, 2017. ISSN: 2250-2106 (Print) 2250-2114 (Online). DOI: 10.1007/s40031-017-0288-2 (*Indexed in Scopus, Inspec*).
3. **Atma Ram Gupta**, Ashwani Kumar, "Performance Analysis of Radial Distribution Systems with UPQC and D-STATCOM" **Journal of The Institution of Engineers: Series B (Springer)**, Vol. 98, No. 4, pp.415-422, 2016. ISSN: 2250-2106 (Print) 2250-2114 (Online). DOI 10.1007/s40031-016-0254-4. (*Indexed in Scopus, Inspec*).
4. **Atma Ram Gupta**, Ashwani Kumar, "Deployment of Distributed Generation with D-FACTS in distribution system: A Comprehensive Analytical Review" **IETE Journal of**

**Research, Taylor & Francis Group.** 2019, Print ISSN: 0377-2063 Online ISSN: 0974-780X, DOI: 10.1080/03772063.2019.1644206. (*Indexed in SCIE, Scopus, Web of Science*). **Impact Factor: 1.125**

5. **Atma Ram Gupta**, Ashwani Kumar, Amit Kumar, "Loading Capability Enhancement of Existing Unbalanced Distribution System with Distributed Generation" International Journal of Computing and Digital Systems (IJCDS). Vol. 08, No.6, pp. 617-624, 2019. e-ISSN 2210-142X, (*Indexed in Scopus, Inspec*).
6. **Atma Ram Gupta**, Ashwani Kumar, "Optimal placement of D-STATCOM using sensitivity approaches in mesh distribution system with time variant load models under load growth" **Ain Shams Engineering Journal (Elsevier)**, Vol. 9, No.4, pp. 783-799, 2018. ISSN 2090-4479, <https://doi.org/10.1016/j.asej.2016.05.009> (*Indexed in SCIE, Scopus, Web of Science, Inspec*). **Impact Factor: 1.949**
7. Atma Ram Gupta, Ashwani Kumar, " Energy saving using D-STATCOM placement in radial distribution system under reconfigured network " **Journal of Energy Procedia (Elsevier)**, Vol. 90, pp.124-136, 2016, ISSN: 1876-6102. (*Indexed in Scopus*).
8. Atma Ram Gupta, Ashwani Kumar, "Impact of various load models on D-STATCOM allocation in DNO operated distribution network", **Journal of Procedia Computer Science (Elsevier)** Vol. 125, pp.862-870, 2018. ISSN: 1877-0509 (*Indexed in Scopus, Inspec*).
9. Atma Ram Gupta, Ashwani Kumar, "Impact of D-STATCOM placement on improving the reactive loading capability of unbalanced radial distribution system " **Procedia Technology (Elsevier)**, Vol. 25, pp.759-766, 2016, ISSN: 2212-0173.
10. Atma Ram Gupta, Ashwani Kumar, " Impact of DG and D-STATCOM placement on improving the reactive loading capability of mesh distribution system" **Procedia Technology (Elsevier)**, Vol. 25, pp.676-683, 2016, ISSN: 2212-0173.
11. Ritu Sharma, Atma Ram Gupta, "Seasonal Loading Impact on Performance of Solar DG for Loss Reduction Based on Capacity Factor" **Procedia Technology (Elsevier)**, Vol. 25, pp.751-758, 2016, ISSN: 2212-0173.
12. Atma Ram Gupta, Ashwani Kumar, "Energy Savings Using D-STATCOM Placement in Radial Distribution System" **Journal of Procedia Computer Science (Elsevier)**, Vol. 70, pp.558-564, 2015, ISSN: 1877-0509. (*Indexed in Scopus, Inspec*)

**Book chapter /Lecture Notes publication from International Conferences: 07**

13. **Gupta A.R.**, Kumar A. (2019) Annual Energy Savings with Multiple DG and D-STATCOM Allocation Using PSO in DNO Operated Distribution Network. In: Malik H., Srivastava S., Sood Y., Ahmad A. (eds) Applications of Artificial Intelligence Techniques in Engineering. Advances in Intelligent Systems and Computing, vol 698. Springer, Singapore (ISSN print 2194 - 5357). ISBN 978-981-13-1818-4 ISBN 978-981-13-1819-1 (eBook), **Chapter 1**, pp.1-10 (*Indexed in Scopus*).
14. Agrawal M.P., **Gupta A.R.**, TRAX: Smart Mobile Application to Improve the Safety and Security of Automobile Vehicles. In: Bhattacharyya S., Hassanien A., Gupta D., Khanna A., Pan I. (eds) International Conference on Innovative Computing and Communications. **Chapter 19**. Lecture Notes in Networks and Systems, Vol 55. Springer, Singapore. pp.191-199, 2019. Print ISBN 978-981-13-2323-2, Online ISBN 978-981-13-2324-9, [https://doi.org/10.1007/978-981-13-2324-9\\_19](https://doi.org/10.1007/978-981-13-2324-9_19) (*Indexed in Scopus*).
15. **Atma Ram Gupta**, Rishabh Gupta, Sourav, Aditya Tiwari, Ranjana Purohit, Chapter 14 “*Overview of Electric Vehicle: Opportunities and challenges with smart grid*”, Springer, Book entitled Recent Advances in Power Systems. Springer Nature Singapore Pte Ltd. 2021. O. H. Gupta and V. K. Sood (eds.), *Recent Advances in Power Systems*, **Chapter 14**, Lecture Notes in Electrical Engineering 699, [https://doi.org/10.1007/978-981-15-7994-3\\_14](https://doi.org/10.1007/978-981-15-7994-3_14) (*Indexed in Scopus*).
16. Biaklian Tonsing, Shelly Vadhera and **Atma Ram Gupta**, "Implementation of Hill Climb Search Algorithm based Maximum Power Point Tracking in Wind Energy Conversion Systems" L. Dewan et al. (eds.), Advances in Renewable Energy and Sustainable Environment, **Chapter 18**. Lecture Notes in Electrical Engineering 667, Springer Nature Singapore Pte Ltd. 2021. [https://doi.org/10.1007/978-981-15-5313-4\\_18](https://doi.org/10.1007/978-981-15-5313-4_18). (*Indexed in Scopus*).
17. Jitendra Singh Bhadoriya, **Atma Ram Gupta**, “Optimal share of DG and DSTATCOM in distribution network using Firefly Algorithm”, Book entitled Recent Advances in Power Systems. Springer Nature Singapore Pte Ltd. 2021. O. H. Gupta and V. K. Sood (eds.), *Recent Advances in Power Systems*, **Chapter 46**. Lecture Notes in Electrical Engineering 699, 2020. [https://doi.org/10.1007/978-981-15-7994-3\\_46](https://doi.org/10.1007/978-981-15-7994-3_46) (*Indexed in Scopus*).

18. Vikas Kumar Tiwari and **Atma Ram Gupta**, "Study of Performance Improvement for Wind Integrated system using SVC and STATCOM", J. Kumar and P. Jena (eds.), Recent Advances in Power Electronics and Drives, **Chapter 17**. Lecture Notes in Electrical Engineering 707, Springer Nature Singapore Pte Ltd. 2021, [https://doi.org/10.1007/978-981-15-8586-9\\_17](https://doi.org/10.1007/978-981-15-8586-9_17) (*Indexed in Scopus*).
19. A. Lasmari , M. Zellagui , **A. R. Gupta**, R. A. El-Sehiemy, and R. Chenni, "Multi-Objective Salp Swarm Algorithm for Performance Enhancement of Electrical Distribution System Including DG and DSTATCOM Simultaneously". *Springer Lecture Notes in Networks and Systems (LNNS)* Series book, 2021 (Accepted).

### **International Conference: 20**

20. N. K. Roy and **A. R. Gupta**, "Information and Communication Technology (ICT) Enabled AC High Voltage Test System: an e learning tool", HKICEAS-676, HKICEAS-2013, **ISBN: 978-986-87417-4-4**, Hong Kong International Conference on Engineering and Applied Science, Hong Kong, 19-21<sup>st</sup> December, 2013. <http://iceecs.org/userdata/Hong%20Kong%20Conference%20Program-1205.pdf>
21. Abhinav A. Jain, A. R. Gupta and A. Kumar, "An efficient method for D-STATCOM placement in radial distribution system," 2014 **IEEE 6th India International Conference** on Power Electronics (IICPE), Kurukshetra, 2014, pp. 1-6, doi: 10.1109/IICPE.2014.7115746.
22. A. R. Gupta, A. Jain and A. Kumar, "Optimal D-STATCOM placement in radial distribution system based on power loss index approach," 2015 **IEEE International Conference on Energy, Power and Environment: Towards Sustainable Growth** (ICEPE), Shillong, 2015, pp. 1-5, doi: 10.1109/EPETSG.2015.7510122.
23. A. R. Gupta and A. Kumar, "Optimal placement of D-STATCOM in distribution network using new sensitivity index with probabilistic load models," 2015 **2nd IEEE International Conference on Recent Advances in Engineering & Computational Sciences** (RAECS), Chandigarh, 2015, pp. 1-6, doi: 10.1109/RAECS.2015.7453316.
24. **A. R. Gupta**, "Effect of optimal allocation of multiple DG and D-STATCOM in radial distribution system for minimizing losses and THD," 2017 **7th IEEE International Symposium on Embedded Computing and System Design (ISED)**, Durgapur, 2017, pp. 1-5, doi: 10.1109/ISED.2017.8303936.

25. A. K. Tagore and **A. R. Gupta**, "Impact of DG and D-STATCOM allocation in radial distribution system for reducing harmonics," 2017 **IEEE 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT)**, Delhi, 2017, pp. 1-5, doi: 10.1109/ICCCNT.2017.8204087.
26. A. K. Tagore and **A. R. Gupta**, "Harmonic load flow analysis of radial distribution system in presence of distributed generation," **2017 IEEE International Conference on Power and Embedded Drive Control (ICPEDC)**, Chennai, 2017, pp. 147-151, doi: 10.1109/ICPEDC.2017.8081077.
27. Prashant Kumar Pathak and **Atma Ram Gupta**, "Battery Energy Storage System," *2018 IEEE 4<sup>th</sup> International Conference on Computational Intelligence & Communication Technology (CICT)*, Ghaziabad, 2018, pp. 1-9. Doi: 10.1109/CICT.2018.8480377
28. Dinesh Rana, Gourav Kumar and **Atma Ram Gupta**, "Increasing the Output Power and Efficiency of Solar Panel by Using Concentrator Photovoltaic (CPV) and Low Cost Solar Tracker," *2018 IEEE 4<sup>th</sup> International Conference on Computational Intelligence & Communication Technology (CICT)*, Ghaziabad, 2018, pp. 1-5. Doi: 10.1109/CICT.2018.8480199
29. Prince Kumar, **Atma Ram Gupta**, "Matlab Simulink Based Modeling of Flux Compression Generator," *2018 Second IEEE International Conference on Inventive Communication and Computational Technologies (ICICCT)*, Coimbatore, 2018, pp. 293-297. doi: 10.1109/ICICCT.2018.8473157
30. M. P. Agrawal and **A. R. Gupta**, "Smart Stick for the Blind and Visually Impaired People," *2018 Second IEEE International Conference on Inventive Communication and Computational Technologies (ICICCT)*, Coimbatore, 2018, pp. 542-545. Doi: 10.1109/ICICCT.2018.8473344
31. A. Bharagy, R. Kumar, S. Tapan, L. Gupta and **A. R. Gupta**, "High Voltage and its Applications: A Review," 2018 **IEEE 8th Power India International Conference (PIICON)**, Kurukshetra, India, 2018, pp. 1-6, doi: 10.1109/POWERI.2018.8704370.
32. B. Tonsing, S. Vadhera and **A. R. Gupta**, "Comparative Analysis of Maximum Power Point Tracking Algorithms of Wind Energy Systems," **2019 IEEE International Conference on Computing, Power and Communication Technologies (GUCON)**, NCR New Delhi, India, 2019, pp. 337-342.

33. Tapan, Saloni and Kumar, Rajiv and Bhargav, Abhishek and Gupta, Lavkush and **Gupta, Atma Ram**, A Study on Generation of Impulse High Voltage (April 14, 2020). **Proceedings of the International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAEEC) 2019**, Available at SSRN: <https://ssrn.com/abstract=3575412> or <http://dx.doi.org/10.2139/ssrn.3575412>
34. K. Saicharan and **A. R. Gupta**, "Effective Placement of UPQC and DG in Radial Distribution System," 2020 First **IEEE** International Conference on Measurement, Instrumentation, Control and Automation (ICMICA), Kurukshetra, India, 2020, pp. 1-6, doi: 10.1109/ICMICA48462.2020.9242721.
35. V. K. Tiwari and **A. R. Gupta**, "Effectiveness of STATCOM Under Different Fault Conditions Near the Wind Farm," 2020 First **IEEE** International Conference on Measurement, Instrumentation, Control and Automation (ICMICA), Kurukshetra, India, 2020, pp. 1-6, doi: 10.1109/ICMICA48462.2020.9242878.
36. Kondreddi Saicharan and **Atma Ram Gupta**, "Allocation of UPQC in Overloaded Mesh Distribution System with Battery Charging Load" First **IEEE** International Conference on Measurement, Instrumentation, Control and Automation (#48462) (ICMICA 2020), Kurukshetra [in press].
37. Abhinav Jain, **Atma Ram Gupta**, An effective method for reduction of line losses in Radial Distribution system using SSVR, NIT-MTMI International conference on Emerging Paradigms and Practices in Global Technology, Management & Business Issues, Dec 2014.
38. Ritu Sharma, **Atma Ram Gupta**, "Comparative study for optimal placement and sizing of PV based DG using VSI and GA technique" ICETEESES-16, **IEEE** International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems, March 2016.
39. Prince Kumar, **Atma Ram Gupta**, "A Study on Flux Compression Generator and its Application" AIP conference proceedings. ICRTES-2018. 10<sup>th</sup> & 11<sup>th</sup> Feb. 2018. (*Indexed in SCOPUS and INSPEC*)

**National Conference :02**

40. **A. R. Gupta**, M. Ghosh and N. K. Roy, "Development of sphere- sphere gap calibration facilities for ICT enabled AC High Voltage test system" COIN-2011, National

Conference on Frontiers of communication and instrumentation engineering, Kolkata, India, 11-12thNov, 2011.

41. Ritu Sharma, **Atma Ram Gupta**, “Effect of using hybrid DG (solar and wind) on loss reduction by considering voltage dependent load model,” National conference on Advancements in electrical engineering and energy sciences AEEES 2016 NIT Hamirpur.

#### LIST OF SHORT-TERM COURSES/ WORKSHOPS ORGANIZED

Sl. No.	STC/ Workshop	Details/Title
1	STC	Coordinator of five days STC on ‘ <b>High Voltage Engineering: Generation, Measurement and its applications</b> ’ Organized in Electrical Engineering Department <b>National Institute of Technology Kurukshetra</b> during July 16-20, 2018.
2	Workshop	Worked as local co-coordinator in one day workshop on “ <b>DRDO Academia meet: Research Opportunities in Defense Sector</b> ” organized by Armament Research Board at NIT Kurukshetra on 30 <sup>th</sup> November, 2018
3	Workshop	Worked as Coordinator in three days workshop on “ <b>AUTOCAD, ANDROID &amp; MATLAB</b> ” organized by CEPTA Infotech Pvt. Ltd. At NIT Kurukshetra.
4	Workshop	Worked as convener in two days workshop on “ <b>Ladder of Research</b> ” at NIT Kurukshetra on 27 <sup>th</sup> -28 <sup>th</sup> February, 2019.
5	STC	Convener of five days STC on “ <b>Power System Operation, Control &amp; Planning with Renewable Energy Sources (PSORE-2019)</b> ” during July 03 to July 07, 2019.
6	Workshop	Coordinator of two days <b>National workshop for Science Communications (Vijnana Bharati)</b> on 21-22 December 2019.
7	STC	Coordinator of five days STC on TEQIP-III Sponsored-Online-Short Term Course-on “ <b>Smart Grid: Operation &amp; planning with Renewable Energy Sources and FACTS</b> ” (SGOPRES-2020) (29 July – 02August 2020).
8	STC	Coordinator of five days STC on <b>TEQIP - III</b> sponsored Online STC on <b>Security Challenges, Objectives and Issues in IoT enabled Smart Grid (SCOISG-2020)</b> Organized in Center of Computing and Network, <b>National Institute of Technology Kurukshetra</b> from 23 September – 27 September 2020.

#### LIST OF STUDENTS SUPERVISED/SUPERVISING

<b>Ph.D Thesis (2019-2020)</b>
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Year	Name of Research Scholar	Roll Number	Thesis Title	Date of admission	Status
2019	Jitendra Singh Bhadoriya	61900077	Optimization techniques for DG and DFACTS allocation on power distribution System	10 July, 2019	Course work completed
2019	Indubhushan Kumar	61900107	Optimal allocation of plug in EV charging stations in distribution system with high penetration of photovoltaic panels	31 December, 2019	Course work completed

M.Tech Dissertations (2013-2019)					
Year	Name of Student	Roll Number	Dissertations Title	Date of submission/ Completion	Status
2013-2015	Abhinav Jain	3131504	Distribution System Analysis and Compensation using D-STATCOM & SSVR	15 <sup>th</sup> July 2015	Completed
2014-2016	Ms. Ritu Sharma	3141614	Distribution System load flow analysis with solar and wind sources integration	30 <sup>th</sup> June 2016	Completed
2015-2017	Ashutosh Tagore	31504221	Harmonic load flow analysis of radial distribution system with DG and D-STATCOM	14 <sup>th</sup> July 2017	Completed
2016-2018	Prince Kumar	31604222	A study on Flux Compression Generator and its Applications	05 <sup>th</sup> June 2018	Completed
2017-2019	Biaklian Tonsing	31710102	Adaptive Control of Maximum Power Point Tracking For Wind Energy Conversion Systems	11 <sup>th</sup> October 2019	Completed
2018-20	Vikas Kumar Tiwari	31804310	Effectiveness of STATCOM under different fault conditions near the Wind farm	05 <sup>th</sup> August 2020	Completed
	Kondreddi Saicharan	31804206	Allocation of Distributed Generation and Unified Power-Quality Conditioner in Distribution System	14 <sup>th</sup> September 2020	Completed

2019-21	Nandola Maitrey Bharatbhai	31904219	Power generation planning with RES for electric vehicles allocation in Micro-Grid / Smart Grid	NA	In Progress
	Ashish Verma	31910102	Distribution System Analysis with wind based DG allocation	NA	In Progress

### B.Tech Project (2013-2019)

Year	Name of Student	Roll Number	Project Title	Status
2013 - 2014	Darbara Singh, Praveen Kumar, Yeshi Wangdi	110556, 110584, 510009	GSM based Transformer Condition Monitoring System	Completed
2014 - 2015	Vinay Vashisht, Mohit Narwal, Bharat Bhushan kala, Vijay Singh	111352, 111356, 111431, 111367	A Study of Wind Energy and its MATLAB Simulation	Completed
2014 - 2015	Anand Sharma	109780	Power Enhancement using Custom Power Devices	Completed
2015 - 2016	Sagili Chaitanya Kumar Reddy, Ms. Sugandha Gupta, Ms. G. N. Nikita	1120508, 1120815, 1120356	Active Power Filters for Harmonic Elimination and Power Quality Improvement	Completed
2016 -17	Nikhil Lekhra, Aanchal Arora, Adesh Jajoriya, Jitendra Kumar Meena	1130535, 1130602, 1130650, 1130671	Motion Sensor and Gas Detector Using MALTAB Integration with Arduino	Completed
2017 -18	Ronak Choudhary, Vishal Singh	1140812, 1140908	Dual Axis Solar Tracker System using MPPT technique with Arduinio	Completed
2018 - 2019	Abhishek Bhargav, Rajiv Kumar Saloni Tapan, Lav kush Gupta	11510316, 11510318, 11510326, 11510862	Detection of Oil level and Temperature of Transformer with Arduino <b>(Selected for best Project Award of EED, NIT Kurukshetra)</b>	Completed
2019 - 2020	Deepak Singh Chauhan, Diwakar Kumar, Vineet Kumar, Tejpal	11610257, 11610245, 11610247, 11610268	High Voltage Insulation and Design of Marx Generator	Completed

### Internship Project Supervised

<b>Year</b>	<b>Name of Student / Roll No</b>	<b>College / Industry</b>	<b>Project Title</b>	<b>Duration</b>	<b>Sponsored By</b>
2018	Ashish Kumar Bairwa / 15EEBEE711	Government Engineering College, Bikaner, Rajasthan	Study of High Voltage Generation, Measurement and its Application in Water Treatment	15th May 2018 to 30th June, 2018	TEQIP-III
2018	Mohit Akash / 15EEBEE735	Government Engineering College, Bikaner, Rajasthan	Study of High Voltage Generation, Measurement and its Application in Food Processing	15th May 2018 to 30th June, 2018	TEQIP-III
2019	Loveleen Gaur / 17EEBEE719 Ms. Komal Singh Solanki / 17EEBEE022	Government Engineering College, Bikaner, Rajasthan	Study of Renewable Sources in High Voltage Networks	1st June to 28th June 2019	TEQIP-III
2020	Riya Meena / 11710863	NIT Kurukshetra / Uttar Pradesh Power Corporation Ltd, Mainpuri, Agra	Power Distribution System, Energy meter, Power Equipment	06th January 2020	Self
	Deepak Sharma / 11710120	NIT Kurukshetra /Uttar Pradesh Power Transmission Corporation Limited, Sikandra Agra	Power Transmission, HV Testing, Capacitor Bank	01 <sup>st</sup> January 2020	Self
	Shailendra / 11710126	NIT Kurukshetra / Ichelon Consulting Group, Gurugram, Haryana	Learning Techniques for marketing of advertisement work	06 <sup>th</sup> January 2020	Ichelon Consulting Group

**DETAILS OF EXPERT LECTURES DELIVERED**

Sl. No.	Details/Title
1	Invited & delivered an expert lecture entitled “ <b>Distribution System Analysis with Distributed Generation Allocation</b> ” on TEQIP-III sponsored one-week online Faculty Development Program on “ <b>Recent Research Advances in Electrical Engineering (RRAEE-2020)</b> ” being organized jointly by <b>GCET Jammu and UIET Panjab University Chandigarh</b> on 29 <sup>th</sup> September, 2020.
2	Invited & delivered an expert lecture on " <b>IoT Applications in Electrical Engineering</b> " in one week online Short Term Course (STC) on Next Generation Computing: IOT, AI, Block Chain in Energy Sector from at <b>College of Engineering, Roorkee</b> under Uttarakhand Technical University on 21 <sup>st</sup> September, 2020 sponsored by <b>TEQIP-III</b> .
3	Invited & delivered an expert lecture on " <b>Application of IoT Applications in Smart City</b> " at <b>Brainware University, Barasat, Kolkata</b> , West Bengal, India on 21 <sup>st</sup> September, 2020.
4	Invited & delivered two days lecture on <b>Application of IoT in Electronics Project</b> in the webinar organized by Department of Electronics and Communication Engineering <b>Bhagalpur College of Engineering, Bhagalpur</b> on 29 <sup>th</sup> & 30 <sup>th</sup> August, 2020 under TEQIP-III.
5	Invited & delivered lecture on <b>An Overview of Power System</b> in the STC on Power System organized by Department of Electrical Engineering, <b>Bhagalpur College of Engineering, Bhagalpur</b> on 23 <sup>rd</sup> July, 2020 under TEQIP-III.
6	Invited & delivered lecture on <b>Application on High Voltage Engineering</b> in the STC on Power System Organized by <b>Bhagalpur College of Engineering, Bhagalpur</b> on 24 <sup>th</sup> July, 2020 under TEQIP-III.
7	Invited & delivered one-day expert lecture in the workshop on “ <b>Application of Optimization Techniques in Power system with GAMS &amp; MATLAB Software</b> ” at Dept. of Electrical Engg. <b>Central University of Haryana</b> on 13 <sup>th</sup> March, 2020.
8	Invited & delivered a motivational lecture on <b>Importance of time management</b> to students of <b>Daffodils public school, Lakhisarai</b> on 18th February, 2020.
9	Invited & delivered three days lecture on <b>MATLAB and its Application</b> to the students of <b>Bhagalpur College of Engineering, Bhagalpur</b> during on 15-17 <sup>th</sup> February, 2020 under <b>TEQIP-III</b>
10	Invited & delivered an expert lecture on " <b>Advances in Renewable Energy Systems</b> " at <b>Govt. Engineering College, Bikaner</b> on 18th December, 2019 under <b>TEQIP-III</b> .
11	Invited & delivered an expert lecture on " <b>Solutions of Smart Grid problems using software</b> " at <b>College of Engineering, Roorkee</b> on 19th November, 2019 under <b>TEQIP-III</b> .
12	Delivered an expert lecture on " <b>Roles of RES based DG in distribution network</b> " in the STC on PSORE-2019 at Dept. of Electrical Engg., <b>NIT Kurukshetra</b> during 03-

	07th July, 2019.
13	Invited & delivered one-week expert lecture in the workshop on " <b>MATLAB Simulink Tools</b> " at Dept. of Electrical Engg. <b>Central University of Haryana</b> during 8-12th March, 2019.
14	Invited & delivered a motivational lecture for first year students at <b>Katihar Engineering College, Katihar</b> on 11th October, 2018
15	Delivered an expert lecture on " <b>High Voltage and its applications</b> " in the STC on HVEGMA-2018 at Dept. of Electrical Engg., <b>NIT Kurukshetra</b> during 16-20th July, 2018.
16	Invited & delivered an expert lecture on " <b>Renewable Energy based DG allocation in distribution systems</b> " in the STC on Advances in Modelling and Control of Renewable Energy Systems at Dept. of Electrical Engg., <b>NIT Kurukshetra</b> during 11-16th December, 2017.
17	Invited & delivered an expert lecture on " <b>Impacts of D-FACTS on Renewable Energy based DG allocation in distribution systems</b> " at <b>College of Engineering Roorkee</b> on 17th March, 2018.

### **COURSE TAUGHT for B.Tech /M.Tech**

#### **B.Tech Course**

- |                                  |                               |
|----------------------------------|-------------------------------|
| 01. Basic Electrical Engineering | 02. Network Theory            |
| 03. Electrical Machines,         | 04. High Voltage Engineering. |
| 05. Power Generation & Control   | 06. Control Systems           |

#### **M.Tech Course**

01. Policy and planning of Power System
02. Design and Testing of High Voltage Power Apparatus.

### **ACADEMIC CONTRIBUTION**

01. Appointed as an Examiner for Electrical Machines and Circuit Theory & Networks by WBUT, Kolkata in January-2013.
02. Professor In-Charge Departmental Educational Visit.
03. Coordinator High Voltage Engineering [June 2013-Continue.]
04. Coordinator Electrical Machine Lab-I [June 2013-June 2018]

### **ADMINISTRATIVE CONTRIBUTION**

- Examination Superintendent of NIT Kurukshetra for Centre-2 in May 2019.

- Warden Dronacharya Bhawan (Hostel No. 4), NIT Kurukshetra. [July 2017-May 2019].
- Examination Deputy Superintendent of NIT Kurukshetra for Centre-2 in May 2015.
- Professor In-Charge High Voltage Lab [July 2014-Continue.].
- Professor In-Charge Departmental Educational Visit [July 2014-June 2017]
- Professor in-Charge Departmental Technical Society (Electrorekh)/ Departmental Student Activities [June 2017- Continue...]
- Member of Organizing Committee in Altius-2017
- Member of Organizing Committee in Techspardha-2017, 2018, 2019.
- Organized Directors Trophy 2018, 2019.
- Delta cup-2018.
- Member of Institute Innovation Cell 2019-20

#### CONFERENCE / SHORT-TERM COURSES/ WORKSHOP/ SEMINAR ATTENDED

Sl No.	STC/Conference/ Workshop/Seminar	Details/Title
1	Faculty Development Program (FDP)	One Week FDP on “Designing Pedagogies for Online Teaching and Learning”, Organized by Computer Engineering Department, National Institute of Technology,, Kurukshetra,, Haryana,, India from 10-14 August, 2020.
2	International Conference	First <b>IEEE</b> International Conference on Measurement, Instrumentation, Control and Automation (#48462) (ICMICA 2020), Kurukshetra
3	Workshop	Six days productivity enhancement program under TEQIP-III at NIT Kurukshetra from 30 December, 2019- 04 January, 2020.
4	Training Programme	Three days training programme on High Voltage Testing of Power System Equipment at National Power Training Institute, PSTI, Bengaluru from 23 <sup>rd</sup> -25 <sup>th</sup> October, 2019
5	Seminar	One day national seminar on Scientific and technical terminology at KIET group of Institutions, Ghaziabad organized by commission of Scientific and technical terminology, Dept. of higher education, MHRD, GOI on 02nd November, 2018.
6	International Conference	Sixth International Conference on Smart Computing & Communications 2017 at NIT Kurukshetra from <b>07-08th December 2017</b>

7	Workshop	One Day Workshop on “ <i>The Process of Patent Filing, Organized by Intellectual Property Rights (IPRC)</i> ” held at NIT Kurukshetra on <b>19 August 2017</b>
8	Short Term Course	CEP Course on “ <i>Pulse Power Technology for HPM Application</i> ” held at Terminal Ballistics Research Laboratory, Chandigarh from <b>08-10 August 2017</b>
9	Short Term Training Program	Two week ISTE STTP on “ <i>Electric Power System</i> ” at NIT Kurukshetra from <b>10-15 July 2017</b>
10	Short Term Training Program	GIAN Course on “ <i>Power Electronics for Renewable Energy Systems</i> ” at NIT Goa from <b>08-17 December 2016</b>
11	International Conference	1st Global Colloquium on “ <i>Recent Advancements and Effectual Researches in Engineering, Science and Technology</i> ” at St. Joseph’s College of Engg. and Technology, Palai, Kerala from <b>22-23 April 2016</b>
12	International Conference	2nd IEEE International Conference on “ <i>Recent Advances in Engineering and Computational Science (RAECS-2015)</i> ” Organized by UIET Punjab University, Chandigarh from <b>21-22 December, 2015.</b>
13	International Conference	5th International Conference on “ <i>Advances in Energy Research</i> ” held at IIT Bombay from <b>15-17 December, 2015.</b>
14	International Conference	“ <i>4th International Conference on Eco-Friendly Computing and Communication Systems</i> ” at NIT Kurukshetra from <b>07-08 December 2015</b>
15	Short Term Course	One week course on “ <i>Economic Operation of Power Systems with MATLAB and GAMS</i> ” at NIT Kurukshetra from <b>6-10th July, 2015</b>
16	Workshop	Workshops on “ <i>Embedded system design using 8 bit &amp; 32 bit microcontrollers</i> ” at NIT Kurukshetra <b>22nd -23rd June, 2015</b> (Two days)
17	International Conference	“ <i>2015 IEEE International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE-2015)</i> ” at NIT Meghalaya, Shillong from <b>12-13 June 2015</b>
18	Short Term Course	“ <i>Automatic Control Systems &amp; Design with MATLAB/SIMULINK</i> ” at IIST Thiruvananthapuram during <b>19-22 May 2015</b>
19	Short Term Course	Short Course on “ <i>Power Electronics and Renewable Integration</i> at IIT Kanpur” held at IIT Kanpur from <b>30th March – 01st April, 2015</b> (Three days)

20	Workshop	One Day Workshop on “Simulation Tools for Nanostructure and Device Modeling” at NIT Kurukshetra on <b>21st March, 2015</b> (One Day)
21	International Conference	IICPE 2014, 6th IEEE India International Conference On Power Electronics at NIT Kurukshetra from <b>8-10th Dec, 2014</b>
22	Workshop	IEEE authorship workshops titled “How to publish a technical paper with IEEE” at IIT Delhi on <b>11th August, 2014</b> (One Day)
23	Short Term Course	One week course on “MATLAB Programming for Engineers” at NIT Kurukshetra from <b>11-15th December, 2013</b>
24	Workshop	“Transformer Fault and Dignostics” at TIFIC-CORE Lab, NIT Harmirpur on <b>28th September 2013</b> (One Day)
25	Workshop	Workshop on “Mipower™ software training” at NIT Durgapur from <b>20-22nd February, 2012</b> (Three days)
26	National Conference	National Conference on Frontiers of communication and instrumentation engineering, (COIN-2011), Techno India, Kolkata. <b>11-12th Nov, 2011</b>

**ONLINE CONFERENCE / SHORT-TERM COURSES/ WORKSHOP/ SEMINAR ATTENDED**

Sl No.	FDP/Conference/ Webinar/ Tutorial	Details/Title
1	<b>International Tutorial</b>	International Tutorial on <i>High-Voltage On-Site Testing with Partial Discharge</i> organized by CIGRE on 23rd October, 2020.
2	<b>Webinar</b>	Participated in the webinar entitled <i>Preventive maintenance of MV &amp; HV cable by using VLF test method</i> organized by Megger on 09 <sup>th</sup> April, 2020.
3	<b>Webinar</b>	Participated in the webinar entitled <i>Mandatory Testing for HV and EHV class cable during the commissioning and service age</i> organized by Megger on 10 <sup>th</sup> April, 2020.
4	<b>Webinar</b>	Participated in the webinar entitled <i>the factors which affects successful cable fault location</i> organized by Megger on 13 <sup>th</sup> April, 2020.
5	<b>Webinar</b>	Participated in the webinar entitled <i>Factors affecting successful cable fault location part 3</i> organized by Megger on 17 <sup>th</sup> April, 2020.
6	<b>Webinar</b>	Participated in the webinar entitled <i>Avoid costly outages: Detection of Partial Discharge on Medium Voltage Assets-online</i> organized by Megger on 20 <sup>th</sup> April, 2020.



7	Webinar	Participated in the webinar entitled <i>Condition monitoring of electrical motors</i> organized by Megger on 21 <sup>st</sup> April, 2020.
8	Webinar	Participated in the webinar entitled Learning of Rotating Machine Testing, MTR 105 by Megger on 22 <sup>nd</sup> April, 2020.
9	Webinar	Participated in the webinar entitled <i>No more cable cutting errors</i> by Megger on 24 <sup>th</sup> April, 2020.
10	Webinar	Participated in the webinar organized by PES India Chapters Council, PICC on <i>COVID-19 impact on Indian electricity grid operations and the pan India lights out event of 5th April 2020</i> held on 29th April, 2020.
11	Webinar	Participated in the webinar entitled <i>Impact of Electric Vehicles in the post COVID world</i> held on 7 <sup>th</sup> May, 2020 by IEEE India Council ICNL & ECIM team.
12	FDP	Participated in three days faculty development program on <i>Real time hardware in the loop(HIL) simulation for power electronics and power systems</i> organized by department of electrical & electrical Engineering, Anurag University, Hyderabad from 27-29 <sup>th</sup> May, 2020.
13	Webinar	Participated in the webinar entitled <i>Electrical system protection – Railway application of power system protection</i> by Megger on 05 <sup>th</sup> June, 2020.
14	FDP	Participated in five days faculty development program on <i>Energy conservation and Renewable energy</i> organized by School of engineering and Technology, IGNOU, New Delhi from 08-12 <sup>th</sup> June, 2020.
15	FDP	Participated in One Week Online Faculty Development Programme on “ <i>Power Electronics Application in Smart Grid - Recent Advances</i> ” during 16-06-2020 to 20-06-2020, Organized by the Department of Electrical & Electronics Engineering, College of Engineering Roorkee (COER) under the aegis of TEQIP-3, Uttarakhand Technical University, Dehradun.

#### AREA OF INTEREST

- High Voltage Engineering
- DG and D-FACTS application in distribution systems
- Automation of high voltage power apparatus and enhancing ICT facilities for promotion of Digital e-learning

## VOCATIONAL TRAINING

<b>Organization</b>	National Aluminum Company Limited.(Smelter Plant)
<b>Title</b>	Distribution & Regulation of voltage & current by 220 KV section
<b>Duration</b>	30 Days

## SKILLS AND CAPABILITIES

- **Computer Skills:** MS-Word, Power Point
- **Programming Skills:** C-Programming, C++, Microcontroller Programming using Arduino IDE., MATLAB
- Good Management qualities.
- Coordinating activities

## MEMBERSHIP:

- Senior Member of IEEE, IEEE Power & Energy Society [*Membership No. 93318489*].
- Member of IEEE Young Professionals.
- Member of IEEE Dielectrics and Electrical Insulation Society.
- Member of International Council on Large Electric Systems (CIGRE) [*Membership No. 620180453*]
- Associate Member of Institution of Engineers (India) [*Membership No. AM1848782*]
- Member of Electrical Engineering Department Advisory Committee [July 2018-Continue].

## REVIEWER OF INTERNATIONAL/NATIONAL JOURNALS

1. International Journal of Ambient Energy, Taylor & Francis
2. International Journal of Electrical Power and Energy Systems (IJEPES)
3. Journal of Renewable and Sustainable Energy (AIP Publishing)
4. International Journal of Electrical and Computer Engineering (IJECE).
5. International Journal of Engineering and Technology Innovation (IJETI).
6. International Journal of Power Electronics and Drive Systems (IJPEDS).
7. Journal of Control, Automation and Electrical Systems (JCAE)
8. IEEE Access
9. Bulletin of Electrical Engineering and Informatics
10. International transactions on electrical energy system

11. Iranian Journal of Science and Technology, Transactions of Electrical Engineering
12. Electric Power Components and Systems

#### **REVIEWER/ SUBREVIEWER OF INTERNATIONAL/NATIONAL CONFERENCES**

1. 8th International Conference on Power Systems, 2019 **ICPS 2019**.
2. National Conference On Renewable Energy and Sustainable Environment **NCRESE-2019**
3. First International Conference on Advanced Communication & Computational Technology- 2019 **ICACCT-2019**
4. International Conference on Power, Control and Embedded Systems **ICPCES-2014**

#### **TECHNICAL PROGRAMME COMMITTEE (TPC)/ ADVISORY BOARD MEMBER**

1. Electric Power and Renewable Energy Conference, **EPREC-2020**
2. International Conference on Recent Trends in Smart Energy Management (COER-ICRTSEM-2020) at COER as an activity of TEQIP-III (Technical Education Quality Improvement Program), Uttarakhand Technical University. **COER-ICRTSEM-2020**.
3. First IEEE international conference on Measurement, Instrumentation, Control and Automation, **ICMICA 2020**.
4. IEEE International Conference on Computing, Power and Communication Technologies, **GUCON 2019**.
5. International Conference on Emerging Trends in Electronics, IT and Communication Conference, 19 October 2019, **ELECTROCON-2019**
6. IEEE 8th Power India International Conference, **PIICON 2018**.
7. 20th National Power Systems Conference- **NPSC 2018**
8. IEEE International Conference on Electrical Power and Energy Systems **ICEPES-2016**
9. Member of National Advisory Board for International Virtual Conference on "Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (**VCIPECH-2020**)" on 06-07 November 2020.

#### **PERSONAL DETAILS**

**Father's Name** : Mr. Jay Prakash Gupta  
**Mother's Name** : Mrs. Lalita Devi  
**Date of birth** : 09/05/1984  
**Sex** : Male

**Languages** : English & Hindi

## **DECLARATION**

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for its correctness.

**Date: 05.11.2020**

**Place: NIT Kurukshetra**

Dr. A. R. Gupta