

### **Faculty Profile**

Name : Dr. Jyoti Jain  
Designation : Associate Professor  
Qualifications : M Tech, PhD  
Phone : 9899503602  
Post at the time of Joining : Lecturer  
Date of Joining MSIT : 18-1-2002  
Email : jyotiee@msit.in  
Area of Interest/Specialization: Power System Optimization,  
Intelligent techniques, Electrical  
Machines etc  
Experience : 31 years, 4 Months  
Nature of Association : Regular

### **Papers published in journals / presented in International Conferences:**

1. Jyoti Jain presented a paper in the National conference on “Electric Drives and Control for Transport Systems”, 16 to 18<sup>th</sup> Jan.97, EDCOTS’97.
2. Jyoti Jain presented the paper “Solar Photovoltaic lighting systems” in the national seminar on Recent Trends in Energy Efficient Lighting Systems at SATI Vidisha 5-6 February 1999.
3. Jyoti Jain “Energy Conservation and Resource Management in Industrial Sector” 2nd National Conference on Advances in Energy Conversion Technologies (AECT 2008), April 18-19, 2008
4. Jyoti Jain “Energy Audit And Energy Conservation in Industrial Sector”, National Conference on Advances in Power Systems & Energy Management, Chitkara Institute of Engineering & Technology, Patiala, 2008.
5. Jyoti Jain “Energy Audit & Management in Industrial Sector”, International conferences on Electrical power & energy systems, August 2010, Bhopal, India.
6. Jain N.K., Nangia Uma & Jyoti Jain, “GA Based Multiobjective Economic Load Dispatch By Maximization Of Minimum Relative Attainments”, 2012 IEEE Fifth International Conference on Power Electronics(ICPEICES 2012), Dec. 6-8, 2012, Delhi Technological University, Delhi.
7. Jain N.K., Nangia Uma, Jyoti Jain, “Effect of Population and Bit Size on Optimization of Function by Genetic Algorithm”, 3<sup>rd</sup> International Conference on Computing for Sustainable Global Development, 16<sup>th</sup>-18<sup>th</sup> March, 2016, Bharati Vidyapeeth Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA).
8. Jain N.K., Nangia Uma, Jyoti Jain, “An improved PSO based on Initial selection of particles”, IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), 4-6 July 2016, DTU, Delhi, India.
9. Jain N.K., Nangia Uma, Jyoti Jain, “An improved PSO based on Initial selection of



Particles (ISBPSO) for Economic load Dispatch ”, IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), 4-6 July 2016, DTU, Delhi, India.

10. Jain N.K., Nangia Uma, Jyoti Jain, “A Review of Particle swarm optimization”, Journal of Institution of Engineers (India): Series B ISSN 2250-2106, Vol.99, issue 4, pages 407–411 (2018), <https://doi.org/10.1007/s40031-018-0323-y>.
11. Jain N.K., Nangia Uma, Jyoti Jain, “Economic load Dispatch using Adaptive Social Acceleration Constant based Particle Swarm Optimization”, The Institution of Engineers (India): Series B, ISSN 2250-2106, Vol.99, issue 5, pp.431-439. DOI 10.1007/s40031-018-0322-z. 01 August 2018.
12. Jain N.K., Nangia Uma, Jyoti Jain, “Multiobjective Economic Load Dispatch Studies in 2-D and 3-D Space by Particle Swarm Optimization Technique” Institution of Engineers (India): Springer Series B, (J. Inst. Eng. India Ser. B) 100, 233–247 (2019). <https://doi.org/10.1007/s40031-019-00386-z>, 07 February 2019.
13. N. K. Jain, Uma Nangia, Jyoti Jain, “Multiobjective Economic Load Dispatch using Fuzzy Logic Decision System” IEEE second International Conference on Power Electronics, Intelligent Control and Energy, Delhi, pp.1-5, (22-24 October, 2018) .
14. N. K. Jain, Uma Nangia, Jyoti Jain, “Impacts of PSO Parameters on its Convergence” IEEE second International Conference on Power Electronics, Intelligent Control and Energy, Delhi, pp.1-5, (22-24 October, 2018).
15. Pulkit Jain, Pranjal Bhatia, Rashika Mann, Nidhi Kumari, Jyoti Jain, “Economic Load Dispatch Using Particle Swarm Optimization” International Journal of Technology and Science, ISSN (Online) 2350-1111, (Print) 2350-1103, Vol. 5, Issue 2, 2018.,
16. Sachin Prakash, Jyoti Jain, Shahbaz Hasnat, Nikhil Verma, Sachin, “Economic Load Dispatch with Valve Point Loading Effect Using Optimization Techniques”, International Conference on Artificial Intelligence and Applications, ICAIA 2020, 02 July 2020, Proceedings of International Conference on Artificial Intelligence and Applications ICAIC 2020 at MSIT, pp. 407-416.
17. Jyoti Jain, Jagriti Krishnan presented a paper on “Machine Learning” NATIONAL Conference on Advances in Information, Science and Technology-2021, organized by Sagar Institute of Research & Technology Bhopal, Madhya Pradesh, India.
18. Jyoti Jain, Ms. Soumya Chaudhary Presented a poster on “ADVANCES IN SENSOR TECHNOLOGIES AND THEIR APPLICATIONS” organized by Sagar Institute of Research & Technology Bhopal, Madhya Pradesh, India.
19. Jyoti Jain, Pulkit Jain “Socio-Economic impacts of Covid-19 Pandemic in India” at International Conference on “Resurgence of Economies Globally Post Pandemic: Issues and Challenges” at Maharaja Surajmal Institute on dated 29-30/10/21.
20. **Jyoti Jain<sup>1</sup>, Sahil Mukamian, Kirti Kataria, Swati Srivastava, Shubham Verm , “Analysis of Speech for Detection of COVID- 19” MSIT Journal of Research – SATYAM, Volume 9 (2020-21), pp 47-52, ISSN 2319-7897**
21. Jyoti Jain, Arpita “Universal Health and Sanitation Tool kit” at **International Conference on “Resurgence of Economies Globally Post Pandemic: Issues and Challenges” at Maharaja Surajmal Institute on dated 29-30/10/21.**
22. Jyoti Jain, presented a paper on “Social Economy – Pandemic Driven Challenges “at



International Conference on “Resurgence of Economies Globally Post Pandemic: Issues and Challenges” at Maharaja Surajmal Institute on dated 30/10/21.

23. Jyoti Jain presented a paper on “Small scale industries and starts up” at International Conference on “Resurgence of Economies Globally Post Pandemic: Issues and Challenges” at Maharaja Surajmal Institute on dated 30/10/21.
24. **Jyoti Jain**, Uma Nangia and N.K.jain, “Adaptive social acceleration constant based Particle swarm optimization”, International Journal of Mathematical Sciences and Computing, 8(2), pp. 28-36, 2022.
25. **Jyoti Jain**, Arpita “Management, IT and Engineering sector under hybrid work Models” International Conference on “Economic & Social Perspective of New Normal through Hybrid work models” on 29<sup>th</sup> & 30<sup>th</sup> July, 2022 at MSI. Pp.158-165, 2022. ISBN: 978–81–7852–225–8.
26. Jyoti Jain et al. “Review on application of internet of things in smart home appliances” MSIT Journal of Research – SATYAM, 2023. ISSN 2319-7897.
27. Jyoti Jain et al. “ELECTRA PLAZA - an Automatic Wireless EV Charging Station” VDI-Z Integrate Production, Vol.11, issue 6, 2024, Pages 118-122, 2024. ISSN- 0042-1766
- Jyoti Jain et al. “Face Detection using ESP Cam-32”, Research and applications: Emerging Technologies, Vol.6, issue 2, PP 36-45, 2024. ISSN 3048-4766.
28. Jyoti Jain, “Application of Solar Power”, Recent Trends in Control and Converter, Vol.7, Issue 3, PP7-12, 2024. ISSN 3048-8311.
29. Jyoti Jain et al. “Applications of Artificial Intelligence in Various Fields”, Recent Trends in Control and Converter, Vol. 7, Issue 3, PP. 1-6, 2024. ISSN 3048-8311
30. Jyoti Jain et al. “Gas Leakage Detection System: Design and Implementation”, Journal of Emerging Trends in Electrical Engineering, Vol. 6, Issue 3, PP 14-20, 2024. ISSN 3048-5924.
31. Jyoti Jain et al., research paper on “Quantum Technology in 6 G”, Journal of Advancement of Signal processing and its Applications, Vol.7, issue 3. PP 17-24  
2024. <https://doi.org/10.5281/zenodo.13933457>. ISSN 3048-8907
32. Jyoti Jain et al. Practices in IOT Security: Applications and Challenges in Technology, Organization Development JOURNAL, and OD Journal is Scopus Active and included in UGC – CARE Group – II, 2024. Scopus, and Impact factor is 5.7, PAGE NO: 56-61, Vol.12, issue 9, 2024. DOI: 20.18001.OD.2024.V12I9.24.21774, ISSN 889-6402.
- 34 Jyoti Jain et al. Case study: Intercompany Setup using Microsoft Dynamics 365 Business Central, Journal of Control System and its Recent Developments, 2024. ISSN 3048-7927,
- 35 Jyoti Jain & Arpita “Impact of Stem Cell therapy” in the journal recent trends in Analog Design & Digital devices. December 2024. Volume 8 Issue 1, e-ISSN: 3048-7560. DOI: <https://doi.org/10.5281/zenodo.14439675>.
- 36 Jyoti Jain<sup>1</sup>, Shrey Vashist , Diwash Manjhi, “A Comprehensive Review of Medical Image Fusion Algorithms” Research and Applications: Emerging Technologies , Volume 7, Issue 1 pages 28-45, Jan.2025, e-ISSN: 3048-4766.
37. Jyoti jain , “NEW Sources for Generating the Power” Journal of Control System and its Recent Developments, Volume 8 Issue 1, e-ISSN: 3048-7927, 22-04-25. DOI: <https://doi.org/10.5281/zenodo.15260252>



### Participated in the following FDP/Seminar/Workshop:

FDP. Seminars and Workshops Attended	Date	Place	No of Days
Internet of Things	17-03-25 TO 31-03-25	Skill Dzire in collaboration with AICTE	15
Role of Reliability Evaluation in Power System Planning ,Operation and Maintenance	3-3-25 to 7-3-25	DELHI TECHNOLOGICAL UNIVERSITY	5
Nanotechnology/ Quantum Technology/ Semiconductor Devices Simulation & experimental characterization.	25-11-24 to 29-11-24	Impulse Technology , On line	5
Modeling and Simulation using MATLAB	16-12-24to20-12-24	Department of Electrical and Electronics Engineering, MSIT	5
Cyber security	5/2/24 to 09/02/24	MSIT in association with ICT Academy	5
Recent trends in Artificial Intelligence	22/01/2024 to 27/01/2024	Pentech Learning, On line	6
FDP on IoT	15/01/2024 to 19/01/2024	MSIT in association with Brain Mentors	5
FDP on “Stress Management	20-6-22 to 22-6-22.	conducted by ICT Academy at Gargi college, South Delhi	3
FDP on topic “Electric and Hybrid Vehicle – Design, Integration and Challenges”	27th December to 31 December 2021	Organized by New Horizon College of Engineering, sponsored by all India council for technical education, AICTE	5
FDP on ‘Artificial Intelligent Techniques applied to Power systems	13th December to 17th December 2021	Organized by Vasavi College of Engineering (Autonomous) , Ibrahimbagh, Hyderabad-500031 ,sponsored by AICTE	5
FDP on “Industrial training on Data science”	15th November to 26th November 2021	Conducted by CS Department of MSIT, Janakpuri, New Delhi in association with Brain Mentors Pvt. Ltd.	12
Advances in Renewable energy Technologies	25-8-21 to 31-8-21	Jodhpur Institute of engineering and technology, Jodhpur	6
Online orientation training programme for Mentors	21-6-21 to 25-6-21	All India Council for Technical Education ,New Delhi	5
Role of Energy Management Systems in Smart Grid	7-12 June, 2021	AICTE sponsored One Week (Online) Short Term Training Programme (STTP)organized by Department of Electrical Engineering of JAMIA MILLIA ISLAMIA (JMI), NEW DELHI	6
Use of ICT in Engineering Education	7-4-21 to 13-4-21	Maharaja Surajmal Institute of Technology, New Delhi	6
Implementation of outcome based education to enhance the quality of HEIs	9-3-21 to 13-3 21	Sri Ramakrishna college of arts and science	6
Power electronics applications for smart grid, electric vehicles and renewable	16-12-20 to 21-12-20	JSS Mahavidyapeetha , JSS academy of technical education, Noida	6
Computational techniques	02-11-20 to 07-11-20	Sagar institute of research and technology,Bhopal	6
Machine learning and it's application in big data	19-10-20 to 24-10-20	Jodhpur Institute of engineering and technology, Jodhpur	6



Implementation of Outcome Based Education to Enhance the Quality of HEIs	5-10-20 to 10-10-20	SRI RAMAKRISHNA college of ARTS AND SCIENCE, Nava India, Coimbatore, TAMIL NADU	6
Learning Management System	21-9-21 to 25-9-21	National Institute of Technical Teachers Training and Research.	5
Machine learning and its application to big data	14-9-21 to 19-9-21	Jodhpur Institute of Technology, Jodhpur	6
Raspberry Pi and Python Programming	24-08-20 to 29-08-20	Sagar Institute of research and technology, Bhopal	6
Optimization Techniques through Machine Learning for IOT	27-7-20 to 01-08-20	MRCEW, Maisammaguda, Telangana, India.	6
Optimization techniques through machine learning for wireless and IOT	13-7-20 to 18-7-20	MRCEW, Maisammaguda, Telangana, India.	6
Power Quality and Reactive Power Management	06-7-20 to 10-7-20	Clariant Power System Ltd., Pune	5
Understanding Power System Simulation Concepts through Case Studies	20-6-20 to 26-6-20	IEEE PES-IAS Chapter Delhi Section and PES India Chapters Council	7
Python Programming	23-6-20 to 26-6-20	BPIT DELHI	4
Artificial Intelligence	15-6-20 to 19-6-20	AICTE Training And Learning (ATAL) Academy	5
Machine Learning Using Python	2-6 March 2020	Maharaja Surajmal Institute of Technology, New Delhi	5
Indian Electricity rules and code of practice	16-12-19 to 20-12-19	NITTR KOLKATA	5
Recent Research directions and key concepts in Electrical Engineering	02-12-19 to 06-12-19	DTU	5
Classroom communication through ICT	28-5-18 to 1-6-18	Education and Educational based Management department of NITTR Chandigarh	5
Power electronics and its applications	27-11-2017 to 1-12-17	MSIT	6
Advances in Soft Computing Techniques for Solving Engineering Problems	17-7-17 to 21-7-17	NSIT, New Delhi	5
Statistical Methods & a Brief on LaTeX	18-7-16 to 22-7-16	DTU Delhi	5

## Awards and Recognitions

1. I have received an Outstanding Engineer Award (OEA) (IEEE PES IAS Chapter) for 2020.
2. I have worked as a Treasurer for IEEE PES IAS Delhi Chapter, 2021.
3. Under my guidance PES chapter of MSIT has received 4<sup>th</sup> Position globally as a Highperformance student branch chapter award in 2017.



## **Memberships of Professional bodies**

- (1) IEEE Senior Member**
- (2) IEEE Power and Energy Society (PES)**
- (3) ISTE (Life Member)**
- (4) IEEE Sensors Council**
- (5) IEEE Systems Council**
- (6) IEEE Young Professionals**
- (7) IEEE Council on Superconductivity**
- (8) IEEE Sensors Council**
- (9) International Association of Engineers (IAENG)**



## Contribution as a Chapter Advisor of IEEE PES Student branch

### Chapter MSIT:

Activities organized by me as a Chapter advisor of IEEE PES MSIT Chapter are given below:

Activity Description	Institute/ Industry	Date	Resource persons	Remarks
International Engineering Technology Fair (IETF)	Pragati Maidan, New Delh	27-2-15	IEEE-PES ChapterAdvisor	To enhance the knowledge of students in the field of INDUSTRY.
Visit to Grid-Tech	ITPO, Pragati Maidan, New Delhi	9-4-15	IEEE-PES ChapterAdvisor	To enhance the knowledge of students in the field of Powersystem.
S.I.G (special interestGroup) S.P.A.R.C. Smart Power Application & Resource Consumption objective: to make students aware about latest power related technology and deliver basics of Technology	MSIT	15 <sup>th</sup> Oct, 2015	1-House wiring 2-Introduction to motor 3-Introduction to Generators/Alternators 4-Introduction to Transformers 5-Basic switching circuits6- Introduction of Power System 7-Introduction to Power Electronics	To enhance the knowledge of students in the field of Power system, Electrical Engineering.
IEEE DAY, MSIT was celebrated as a PROJECT WEEK' where a team of students registered themselves and shared their ideas for theirprojects.	MSIT	3rd October 2015 to 8 <sup>th</sup> October 2015	Faculties of MSIT and Students. Each team were assigned a mentor, who guided them throughout the project work. On 6 <sup>th</sup> October 2015, which was the final day of this project week, students showcased their hard work and creativity with the presentation of theirinnovative projects they made.	To share innovative idea for working project. The Chief Guest Mr. Jasmeet Singh, Founder of JMOON Technologies Pvt. Ltd., who was the sponsor for this event, was very impressed with the projects of the students .
Solar Industry and itsProspects Guest Lecture	MSIT	4-11-15	Mr. Mohak Thakur. Manager, Genso engineeringPvt Ltd.	To know about Solar Industry
Visit to BSES	BSES	31-12-15	BSES Engineer atPatparganj, Delhi	Exposure relating to different component of power system



SKILL INDIA MISSION	MSIT	11-4-16	Experts from skill India Mission	To develop the technical skills of students.
Workshop On Career guidance	MSIT	11-8-16	Experts from Triumphant Institute of Management Education Private Limited	Exposure relating to different technical career
Workshop on MATLAB Optimization Toolbox	MSIT	21-10-16	Expert from Sofcon	To enhance the knowledge of students in MATLAB.
Project Week activity by PES students	G.D Goenka Public School Rohini	5-10-16	2 <sup>nd</sup> , 4 <sup>th</sup> and 6 <sup>th</sup> sem EEE and ECE Students	To motivate the School students
Project Week activity by PES students	Jain S.S. School.	20-10-16	Members of IEEE PES STUDENT Chapter	To motivate the School students
Industrial visit	Kalinga Cable	29-12-16	Engineer of Kalinga Cable	Industrial exposure to students.
Participation in Conference	I. H. C. Lodhi Road Delhi	11 to 12 March 17	Mr. Jai Giri, Prof. Mini Thoms, S.K. Soonee, Prof. G. Bhuvnesvari etc.	To enhance the knowledge of students
Summer-project	MSIT	June to August 2017	Vikrant and Devansh	To enhance the practical Knowledge
Project presentation	MSIT	September 27, 2017		



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RES KIT	MSIT	24-7-17	Students of MSIT PES, Demonstrate the Renewable Energy in Schools (RES) project.	To motivate the students in the field of RES
IEEE Day	MSIT	October 4,2017	IEEE Advisor shares their technical ideas. Demonstrate the ways in local communities join together to collaborate on ideas that leverage technology for a better tomorrow.	A meeting was held to explain the mission to the members.
Solar skill development workshop	Village	September 30,2017	IEEE Member and residents of Meerpur Majra village in Hapur, Tehsil to enlighten them about solar energy	The volunteers took a 1 hour session and had a brief discussion with the panchayat about Solar skill.
Res kit	Different schools	October 29,2017	Started IEEE PES Networking without Borders project (NwB). Educational kits to visualize the idea of renewable energy development for school students.	Initiative on IEEE-PES- RES Project
Seminar on Automatic Control	MSIT	8/2/18	Expert from SOFCON company	To understand Application of Control
INDUSTRIAL VISIT	DMRC	9/2/18	Engineers at DMRC Station	To Enhance knowledge of power Station
Opportunity in career for EEE Students	MSIT	10/3/18	Expert from T.I.M.E.	To guide the EEE STUDENTS for Career
MATLAB Seminar	MSIT	20/4/18	Optimization Toolbox	To help in project work
Activities to recognize PES volunteers	MSIT	2/6/18	To write articles and making posters, by all students of MSIT	To promote Power and Energy awareness



Guest Lecture	MSIT	23/10/18	Dr. DP Kothari	Power system optimization
OPEN DISCUSSION 1.0	MSIT	28/10/18	PES MSIT TEAM	To know about IEEE
International Engineering and Technology Fair (IETF).	Pragti Meidan Delhi	4/2/19	Expert from Health Organization and Industry	To Know, Real Life application of the Artificial Intelligence
Interaction with other IEEE units	Think and Research at MSIT	25/2/19	Mr. Apoorv Arora and Mr. Aakash Bansal	To know how to implement the idea into reality
Technical Project exhibition	MSIT	9/3/19	Expert from Industry	To Know, Real Life application
Visit at Receiving End Substation 66Kv	Indira Gandhi International Airport	18/3/19	Mr Sinthil Kumaran (Senior Engineer)	To know Receiving End substation component.
PES humanitarian activities	Mahila Ashram	18/6/19	Chapter advisor Jyoti jain	To solve the problem of Math's subject
Guest Lecture on Integrated Operations of Power System	MSIT	7/9/19	Sh. Naveen Kumar, Manager (SLDC), Delhi	To know working of SLDC
Expert lecture DC-DC Converters	MSIT	17/10/19	Dr G. Bhuvaneswari, professor at IIT Delhi	Real life application of Power Electronics
<b>Membership Recognition Activities</b>	MSIT	<b>20/10/19</b>	<b>Chairman and Team of MSIT</b>	<b>To increase membership</b>
<b>Student Transition and Evaluation Programme (STEP)</b>	MSIT	<b>25/10/19</b>	<b>Chairman and Team of MSIT</b>	<b>To increase membership</b>
<b>Administrative Meetings</b>	MSIT	<b>Yearly four, times</b>	<b>To make the plan of activity and new Executive committee.</b>	<b>To know how to pursue in future</b>
Energy Efficiency in Smart Buildings through IoT Sensor Integration	Webinar	20 -6-20	Prof. Saifur Rahman	To know about Energy Efficient Buildings



Internet of Thing	Webinar	25-5-20	Expert from Mapping Skills	To know about IOT
Electrical Switch Gear and its Applications	Webinar	10-7-20	Mr. Shivanandam D.V.,CEO, Universal Motor	To know Switch Gear application
Applications of AI in Power Systems	Webinar	31/7/20.	Mr. Shreenivasalu Ala fromPantech E Learning	To know AI Applications
Design of Electrical Vehicle	Webinar	10-8-20	Mr. Shreenivasalu Ala fromPantech E Learning	To know Electrical Vehicle
Power Electronic Simulation - Simplified	Webinar	19-8-20	Mr. Shreenivasalu Ala fromPantech E Learning	To know Power Electronic Simulation
Career Guidance for B. Tech Students and Machine Learning	Webinar	7/10/20	Expert from 4Achievers,Noida	How to make career after B.Tech.
PLC SCADA and INTERNET OF THINGS(IOT)	webinar	11 <sup>th</sup> June 2021	Expert from Sofcon India Pvt. Ltd.	To give exposure for PLC SCADA and IOT
TECH-SIMPLIFIED	Video series	18th JUNE 2021	Video series started at IEEE PES day	The videos cover the roadmaps of the topic Arduino, Raspberry Pi, Machine Learning, and much more .: <a href="http://bit.ly/PES_DataAnalytics">http://bit.ly/PES_DataAnalytics</a>
“Green hydrogen from renewable energy : technology outlook for the energy transition”		24 <sup>th</sup> april, 2021	Ms. Anupma thakur (dst-inspire senior research fellow csir-csio), chandigarh, india.	
Dr. Celia. Shahnaz Chair, IEEE Bangladesh Section Guest Speaker	webinar	16-8-21	Role of Artificial Intelligence for Clean Energy and other WIP-YP initiatives to enhance Member Elevation	<a href="https://www.msit.in/media/2021/09/28/4-9-21-seminar-webinar-ieee-pes.pdf">https://www.msit.in/media/2021/09/28/4-9-21-seminar-webinar-ieee-pes.pdf</a>
Mr. Mark Brandom Venum (Career Architect and Strategic Partnerships – CareerLabs).	webinar	20 <sup>th</sup> August, 2021	“PROFILE BUILDING FOR HIGHER EDUCATION AND PLACEMENTS”	



Mr. Chandan Kumar, Manager of System Study and Reliability Eastern Regional Load Despatch Centre in Kolkata POSOCO	Seminar	4-9-21	Basics of Power System Resilience & its Importances Globally	<a href="https://www.msit.in/media/2021/09/28/4-9-21-seminar-webinar-ieee-pes.pdf">https://www.msit.in/media/2021/09/28/4-9-21-seminar-webinar-ieee-pes.pdf</a>
RUKMI DUTTA Associate Professor at UNSW, Sydney	webinar	6-9-21	Transport Electrification and Renewable Energy Conversions- a push in the right direction (for the advancement of Electric Machines and Drives) on	To enhance knowledge in the field of Electrical Machine. <a href="https://www.msit.in/media/2021/09/28/6-9-21.pdf">https://www.msit.in/media/2021/09/28/6-9-21.pdf</a>
Dr. Praduman Chaturvedi	Guest lecture	9-12-21	Switch Mode power supply	To enhance knowledge in the field of power Supply
HACKWIE 2.0		December 13-15, 2021		
Session by Mr. Ankit Goyal (Co-Founder at Kreatryx & AVP Unacademy )	Institute	February 10, 2022	on “Career Awareness for Engineers”	
industrial visit to Delhi Transco Limited- 220kV Sub-Station Pappankalan-II, Dwarka,	Industry	11th October 2022	Mr. V.V. Prasad (Assistant Engineer, DTL)	
Mr. Rajeev Sapra (Dy. General Manager (Technical), Delhi Transco Limited	expert lecture on “Electric Vehicle and Charging infrastructure in Delhi”	March 26, 2022		



Industrial visit to Raheja Hydel Power Private Limited, Dharamshala, Himachal Pradesh	visit	April 15, 2022	career opportunities in the areas of Sustainability, Renewable Energy, Urban Development, and Water Resources	
	seminar	April 23, 2022.	Ms. Sonika Goyal, Dr. Prateek Sharma, Dr. Shaleen, Dr. Sapan, and Dr. Sherly	
Power System Operation.	Expert Lecture	October 21, 2022.	Mr. Chandan Kumar, Chief Manager, Power System Operation Corporation (POSOCO), Kolkata, West Bengal,	
Expert lecture		16 <sup>th</sup> march, 2023	Mr. Rahul Shukla "from NDLS	
Visit to the IGI stadium on Earth Day,		22 April 2023	A group of 16 Students assembled the clock, at IGI Stadium.	<b>Received one clock for MSIT Rs 6500/-</b>
visit to Delhi Transco Limited, - III		20th September, 2023	Dwarka 220kV/66KV Grid sub-Station Pappankalan	To know equipment's of power station
AI based motion control	Seminar	23 April 2024	Prof. Perna Gaur	To enhance the knowledge
IEEE PES DAY CELEBRATION with orphans,	Seminar On E - Mobility	24 April 2024	Outreach at Mahila Ashram	To enhance the knowledge
VLSI and Embedded Systems	Expert talk	29 April 2024		To enhance the knowledge
Internet of Things (IoT)	Webinar	16 August 2024	Pantech E Learning	To enhance the knowledge
Battery Management Systems (BMS)	Webinar	28 August 2024	Pantech E Learning	To enhance the knowledge
Hardware Digital DESIGN	Expert lecture	01-04-25	MR. Vaibbhav Mishra	
Industrial VISIT TO GRIDCON 2025	VISIT	11-03-25	POWER GRID	To enhance the knowledge



Webinar on Membership development	webinar	22-04-25	<b>Dr. Rajesh Pindoriya</b>	To know about IEEE
Webinar on green energy	webinar	23-04-25	<b>Dr. Jyoti Jain</b>	To enhance the knowledge
Reducing emissions through green energy	webinar	23-04-25	Ms.Suman	To enhance the knowledge
Renewable Energy Dashboard	webinar	23-04-25	Mr Shubham, Mr. Ujjwal	

### **Other Contributions for IEEE and IEEE Power and Energy Society Chapter (Delhi Section & IEEE PES IAS Delhi Chapter)**

- Attended all the IEEE IAS-PES Delhi Chapter Annual General meeting (Held during 2013-2024).
- Worked as an **Executive member of IEEE Delhi Section.**
- I am working as a **Chapter Advisor of IEEE PES MSIT** since 2013.
- I have worked as an **Executive member of IEEE PES DELHI Chapter of Delhi** section from **2013 to 2019** continuously.
- I have worked for different committees of **IEEE IAS - PES Delhi Chapter.**
- I have worked as an **Executive member of IEEE Delhi Section in 2020.**
- I have worked as a Treasure for IEEE IAS-PES Delhi Chapter 2021.
- I participated in different activities of IEEE, Lecture series, Virtual Distinguished Lectures, webinar organized by IEEE Region 10 and all the Regions.

### **Contribution to IEEE PES MSIT:**

Our society came into existence on 6th April 2013. This is the first ever society, specifically for Electrical and Electronics Engineering Department under IEEE at MSIT which was established by me. I have organized seminars, workshops, industrial trips and so many activities. With various regular activities like Workshops, Industrial Visits, Panel Discussions, Talks, Seminars, Project competition and many other activities, it aim to educate and lead the technological advancements.

- The IEEE PES MSIT has also conducted programme using RES kits for kids in different schools of the Delhi, under IEEE PES NwB (Networking without Borders) project drive which shows the inherent will to every part of community.
- IEEE PES MSIT chapter has been receiving High Performing Student Branch



Chapter Programme award since 2014 and in 2017 MSIT has got fourth global position.

### **Achievements of IEEE PES STUDENT BRANCH CHAPTER MSIT:**

1. Rs . 13664/- has been received by **IEEE PES MSIT** student branch chapter for 2017 as a “High performing student branch chapter programme (HPSBCP)” award.
2. Rs. 28,380 /- (4<sup>th</sup> Global position) has been received by **IEEE PES MSIT** student branch chapter for 2018 as a “High performing student branch chapter programme (HPSBCP)” award.
3. Rs. 15120 /- has been received by **IEEE PES MSIT** student branch chapter for 2019 as a “High performing student branch chapter programme (HPSBCP)” award.
4. Rs. 15,190/- has been received by **IEEE PES MSIT** student branch chapter for 2020 as a “High performing student branch chapter programme (HPSBCP)” award.
5. US\$ 343 has been declared to **IEEE PES MSIT** student branch chapter for 2021 as a “High performing student branch chapter programme (HPSBCP)” award.
6. **Rs. 20,705 have been received by IEEE PES MSIT student branch chapter for the year 2022 as a “High performing student branch chapter programme (HPSBCP)” award.**

Year	Name	Achievement
2014	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2015	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2016	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2017	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2018	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2019	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2020	Dr. Jyoti Jain	Executive Member IEEE PES DELHI SECTION
2021	Dr. Jyoti Jain	Treasurer, IEEE PES, IEEE Delhi Section
2021	Dr. Jyoti Jain	Session Chair 2021 DELCON International Conference
2022	Dr. Jyoti Jain	<b>Outstanding Engineer Award, IEEE PES owing to her chapter advising for 2020-21 activities at IEEE PES MSIT STUDENT BRANCH</b>
2022	Dr. Jyoti Jain	Steering Committee member and Publicity Committee member of International Conference PICON 2022



2014-2025	Dr. Jyoti Jain	Chapter Advisor, IEEE PES Student branch MSIT (2014 to till date)
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### **Contribution to MSIT Institute:**

- I worked as a Deputy Superintendent for Examination Centre of MSIT.
- I have set up / developed Electrical Machines Laboratory for III semester and IV semester, Electrical Science and Circuits & Systems Laboratories at MSIT.
- Besides this, I also contributed towards the development of Lecture Plans / Syllabus / Question papers of various courses of GGSIPU as well as organized various Seminars/ Workshops/ Industrial Visits in the department. I also worked as Departmental in-charge of Labs of Electrical Engineering department of MSIT.
- I worked as an Auditor for Labs of ECE department of MSIT.
- I attended and received the Certificate of **“orientation training preprogram for mentors”** Organized by National Institutes of Technical Teachers' Training & Research (NITTTR) of INDIA from 21-06-21 to 25-06-21.
- Worked as a Purchase committee In-charge for March 2021 to July 2021 and member.
- I have Organized International, National webinars to enhance the knowledge of Students and Faculties.
- I worked as a Chief Editor of News Letter of MSIT 2023 and 2024.
- I received Outstanding Engineer Award from IEEE PES Chapter for 2020 activities.
- Worked as a Treasurer of IEEE PES IAS Delhi Chapter 2021.
- Worked as a Mentor for EEE Department Students.
- Worked as a Mentor Incharge for EEE department
- Budget Incharge for EEE department
- Chapter advisor of IEEE PES MSIT Student Branch
- Worked as a Subject Coordinator Electrical machines, Circuits and Systems for GGSIPU University



- Incharge of Electrical Machines Lab. I and II
- Contributed as a Question paper Setter for GGSIPU University.
- Contributed as an Exam Supervisor for GGSIPU University.
- Worked as a Member of NAAC and NBA Committee for EEE Department.
- Worked as a reviewers for SSITCON-2024 conference conducted on 18<sup>th</sup> & 19<sup>th</sup> October, 2024.
- Worked as a Chair for IEEE International conference Delcon 2022.
- Worked as a Steering committee and publicity member for IEEE International conference conducted at Delhi.
- Worked as a **REVIEWER** for AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.
- Worked as a Co-Session Chair in the National Conference on Recent Trends in Climate Change, Energy and Sustainability held on 11-11-24 to 12-11-24 at MSIT, Delhi.
- Worked as a **REVIEWER** for AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.
- Dr. Jyoti Jain worked as a reviewer for 2nd International conference on integrated intelligence and communication systems organized by Sharnbasva University, Kalaburgi, 22-23 November, 2024.
- At present working as a chief editor of Reflections, NEWS LETTER of MSIT.

**According to Google Scholar,**

Citations	327
h-index	5
i10-index	3

**The impact of my research can be gauged from my Google Scholar page:**

<https://scholar.google.com/citations?user=6SUJrIAAAAJ&hl=en>

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