

DR. JAYANT MANI TRIPATHI

Assistant Professor(Electrical Engineering Department)
L.D.A.H REC, Mainpuri

Address :

130-b, Ashok Nagar Colony
Near Ganguly Boys Hostel,
Basharatpur, Gorakhpur
Mobile: +91-7376363450

Email: jayantmani.tripathi@recmainpuri.in

Educational Qualifications:

Class (Board/University)	Institution	Year	Percentage/CGPI
PhD	NIT,PATNA	2025	8.57
M.Tech(Power System)	MNNIT, Allahabad	2014	9.28
B.Tech.(Electrical and Electronics Engineering)	AJAY KUMAR GARG ENGG. COLLEGE	2010	70.74
XII (ISC Board)	LITTLE FLOWER SCHOOL	2005	78.4
X (ICSE Board)	LITTLE FLOWER SCHOOL	2003	79.0

Areas of Interest:

- POWER SYSTEM PROTECTION, OPTIMIZATION TECHNIQUES, RELAY COORDINATION, DISTRIBUTED GENERATION, APPLICATION OF AGENT TECHNOLOGY TO POWER SYSTEM PROTECTION, DEMAND SIDE MANAGEMENT.

Academic Experience:

- WORKING as ASSISTANT PROFESSOR in ELECTRICAL ENGINEERING DEPARTMENT at L.D.A.H RAJKIYA ENGINEERING COLLEGE, MAINPURI from December, 2017 to present.

Computer Proficiency:

- MATLAB
- DIG SILENT Power Factory
- PSCAD

Publications:

SCI/SCIE

- Santosh Kumar Gupta, Sanjeev Kumar Mallik, Lokesh Kumar Yadav, **Jayant Mani Tripathi**, Ashish Ranjan, Pankaj Sahu, Md Atiqur Rahman, Rishi Kesh and Vishnu Singh, "Assessment of the voltage stability of the power system using stability indices and artificial neural network", Science and Technology for Energy Transition, <https://doi.org/10.2516/stet/2026001>.
- Jayant Mani Tripathi**, Sanjeev Kumar Mallik, "An adaptive protection coordination strategy utilizing user-defined characteristics of DOCRs in a microgrid", Electric Power Systems Research, Volume 214, Part A,2023,108900,ISSN 0378-7796,<https://doi.org/10.1016/j.epsr.2022.108900>.

3. A. Srivastava, **J. M. Tripathi**, R. Krishan and S. K. Parida, "Optimal Coordination of Overcurrent Relays Using Gravitational Search Algorithm With DG Penetration," in *IEEE Transactions on Industry Applications*, vol. 54, no. 2, pp. 1155-1165, March-April 2018, doi: 10.1109/TIA.2017.2773018.
4. A. Srivastava, **J. M. Tripathi**, Soumya R. Mohanty, Bhagabat Panda, "Optimal Over-current Relay Coordination with Distributed Generation Using Hybrid Particle Swarm Optimization–Gravitational Search Algorithm", ISSN: 1532-5008, Vol. 00 (2016), No.00,pp.506-517.

ESCI

1. **Jayant Mani Tripathi**, Sanjeev Kumar Mallik, "Protection coordination of DOCRs for different modes of microgrid operation", in Eng. Res. Express 5 (2023) 025045, <https://doi.org/10.1088/2631-8695/acd61a>.

Scopus

1. **Jayant Mani Tripathi**, Santosh Kumar Gupta, Mrinal Ranjan, Vikash Kumar, Shivam Yadav, Aseem Chandel, Smriti Singh, "Protection coordination of directional over current relay with distributed generation", Vol 26, No 1: April 2022, Indonesian Journal of Electrical Engineering and Computer Science.
2. Gupta, S.K., **Tripathi, J.M.**, Ranjan, M., Gupta, R.K, Maximization of injected power and efficiency based optimal location of DPFC using iterative procedure. Archives of Electrical Engineering, 2022, 71(1), pp. 91–108.
3. Santosh Kumar Gupta, **Jayant Mani Tripathi**, Ashish Ranjan, Rishi Kesh, Amit Kumar, Mrinal Ranjan, Pankaj Sahu,"Optimal sizing of Distributed Power Flow Controller Based on Jellyfish Optimizer", JOAPE.
4. Singh, S., Saket, R.K., Gupta, A.R. *et al.*, "Impact Analysis of Demand Side Management for Maintaining the Voltage Profile of Distribution System", *J. Inst. Eng. India Ser. B* **105**, 515–531 (2024). <https://doi.org/10.1007/s40031-023-00985-x>.

Conference

1. Comparison of Voltage Stability Index with Optimal Placement of SSSC Considering Maximum Loadability, Santosh Kumar Gupta, Sanjeev Kumar Mallik, **Jayant Mani Tripathi**, Pankaj Sahu, 2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA)
2. Effect of Change in Environmental Factors on Coordination of Overcurrent Relays with DG Integration, **Jayant Mani Tripathi**, Adhishree Srivastava, Sanjeev Kumar Mallik, 2020 International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET).

3. Protection Coordination in Grid Connected and Islanded Mode of Microgrid, Adhishree Srivastava, **Jayant Mani Tripathi**, Abhinav, S.K. Parida, 2018 IEEE 8th Power India International Conference (PIICON).
4. Optimal coordination of overcurrent relays using gravitational search algorithm with DG penetration, **Jyant Mani Tripathi**;Adhishree;Ram Krishan,2014 6th IEEE Power India International Conference (PIICON).
5. A simulation based comparative study of optimization techniques for relay coordination with Distributed generation, Adhishree, **Jayant Mani Tripathi**, Soumya R Mohanty, Nand Kishor, 2014 Students Conference on Engineering and Systems.
6. Lower Order Harmonic Torque Reduction in v/f Controlled Induction Motor Drive, Yadav S., Mishra, A.K., **Tripathi, J.M.**, Chandel, A. Lecture Notes in Electrical Engineering, 2022, 838, pp. 143–155.
7. **Jayant Mani Tripathi**, Adhishree, S.R Mohanty, Nand Kishor,"Impact on Protection Coordination with Integration of DG and Adaptation of Various Optimization Techniques: A Review" IEEE Student Conference on Engineering and Systems, MNNIT Allahabad Proceedings, May **2014**.
8. Smriti Singh, **Jayant Mani Tripathi**, Atma Ram Gupta, Shivam Yadav, “Electrical Distribution System Analysis using Demand Response Technique” 1st International Online Conference on Sustainable Development in Civil and Electrical Engineering (SDCEE-2021),(Dec. 17-19, 2021).

Declarations:

I confirm that the information provided by me is true to the best of my knowledge and belief.

Place : Mainpuri

Date: 19/06/2026

(Dr. Jayant Mani Tripathi)