

## Mr. Karimulla Polisetty

Assistant professor

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### Biography

Mr. Karimulla Polisetty received his Master's degree from National Institute of Technology, Kurukshetra in 2016. He worked as a testing and commissioning engineer in Im consultants for L&T before his Post graduation.

His research is on distribution system pricing and optimization techniques. He has proposed a new optimal power flow algorithm to calculate nodal prices for both radial and mesh type distribution systems. He has also done research on distributed generation (renewable) and FACTS devices by integrating them in the distribution system to reduce system losses. Some of the optimization algorithms (genetic & PSO) are also modelled for finding best location to place capacitors and Renewable DG's.

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### Awards & Honors

1. Received National level **POSOCO** Power system award (PPSA) for the research work on Distribution system pricing under Master category organized by POSOCO Ltd in association with FITT, IIT Delhi.
2. Got first prize in state level Quiz competition conducted by Sathish Dhawan space centre, Sriharikota, AP.

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### Selected Publications

1. Karimulla Polisetty, Ashwani Kumar, "Nodal Prices determination with wind integration for Radial Distribution System" International Journal of engineering, Science and Technology, Vol.9, No.3, 2017 with print ISSN No: 2141-2820. Pp 11-21.
2. Karimulla Polisetty, Ashwani Kumar, "Distribution system nodal prices determination for realistic ZIP and seasonal loads: An optimal power flow approach" Elsevier Journal Procedia Technology 25, Vol. 25, 2016 with print ISSN No: 2212-0173. Pp 702-709.
3. Karimulla Polisetty, Ashwani Kumar, "Comparative Analysis of Sensitivity Based Methods for Optimal Location of Capacitor considering Optimal Power Flow Formulation" 6th IEEE International Conference on Power Systems, ICPS – 2016, IIT Delhi, India, 04-06 March 2016.
4. Karimulla polisetty, Ch. Hariprasad, "Impact on radial distribution system by integrating wind power with ZIP load considering load growth" AICTE Sponsored E-Conference on Systems Modelling and System Dynamics held at Bapatla Engineering college, Bapatla from 24Th – 28Th August 2020.