

## Faculty Profile

Name : Dr. Rakhi Kamra  
Designation : Assistant Professor (Regular)  
Qualifications : PhD, M Tech (Power Engg)  
B.Tech (Electrical Engg.)  
Phone : 9953649019  
Email : rakhikamra@msit.in  
Area of Interest : Power Engineering, Power Systems Operations  
Reliability of systems, Energy Audit and conservation.



Total Teaching Experience : 20 years

Date of Joining the institute : Feb 01,2011

### Research Publications:

#### Peer-reviewed International journals/Book chapter:

1. Rakhi Kamra and G.L Pahuja, "Solving reliability redundancy allocation problem using grey wolf optimization algorithm" Journal of Physics: Conference Series. Vol. 1706. No. 1. IOP Publishing, 2020. DOI:10.1088/1742-6596/1706/1/012155 (Scopus indexed)
2. Rakhi Kamra and G.L.Pahuja, "Redundancy Optimization of Complex Networks with Capacity Delay Related Reliability Integrated Performance Measure" Invertis Journal of Science and Technology, Vol.13, No.4, 2020 pp.187-195.DOI: 10.5958/2454-762X.2020.00018.9
3. Rakhi Kamra and G.L. Pahuja, "A Reliable Solution of Path Optimization in Leach Protocol by Implementing Trust Based Neural Network" International Journal of Communication Networks and Distributed Systems, Vol.22, No.1,January 2019,pp.55-73 (**Scopus** indexed journal-Inderscience). DOI: 10.1504/IJCND.2019.0965236
4. Rakhi Kamra and G.L. Pahuja, "Component Importance Measure based Risk and Reliability Analysis of Vehicular Adhoc Networks", International Journal of Computer Network and Information Security, Vol. 10, October 2018, pp.38-45.(**Scopus** indexed) DOI:10.5815/ijcnis.2018.10.0 and Information Security, Vol. 10, October 2018, pp.38-45.(**Scopus** indexed) DOI: 10.5815/ijcnis.2018.10.05
5. Rakhi Kamra and G.L. Pahuja, "A Reliable Solution to Load Balancing with Trust Based Authentication Enhanced by Virtual Machines", International Journal of Information Technology and Computer Science, Vol. 11, October 2017,pp.64- 71.(**EBSCO** indexed) DOI: 10.5815/ijitcs.2017.11.07
6. Rakhi Kamra and G.L. Pahuja, "VANET Routing And Trust Model Evaluation Using Artificial Bee Colony Algorithm", International Journal of Advanced Research in Computer Science and Software Engineering, Vol.07, Issue 7, July 2017, pp.182-188.  
DOI: 10.23956/ijarcsse/V7I7/0182
7. Rakhi Kamra and G.L.Pahuja, "An analytical review of Smart Grid applications in VANET", International Journal of Electrical Electronics and Computational System, Vol.06, Issue 08, August 2017, pp.170-176.

8. Rakhi Kamra, Kashish Garg, Sidhant and Aakriti kaul, "Electrical Energy Conservation and Audit of an Educational Institute :A Case study " International Journal of Research in Electronics and Computer Engineering , Vol. 6,nO.3, July 2018,pp. 413-417.
9. Rakhi Kamra and G.L. Pahuja, " Performance Improvement of VANET routing using Artificial Bee Colony Algorithm" Proceedings of 6<sup>th</sup> International Conference on 'Recent Trends and Advancement in Engineering and Technology', 17<sup>th</sup>- 18<sup>th</sup> January 2020, Katra, India.
10. Rakhi Kamra, Manuhar Swaroopa and Shrishti Gupta, "Energy Audit and Energy Conservation for a Hostel of an Engineering Institute" Proceedings of 2nd IEEE Int. Conference on Power Electronics, Intelligent Control and Energy System, ICPEICES-18, 22-24 Oct, 2018, India.
11. Rakhi Kamra and G.L. Pahuja, "Redundancy Optimization of Modular Systems" Proceedings of 6th International Multi-Conference on Intelligent Systems, Sustainable, New and Renewable Energy Technology and Nanotechnology, 22nd - 23th February, 2012, Yamunanagar, Haryana, India.
12. Nagaveni R, Manish T I, B Nagaraju, Rakhi Kamra, Rama chaithanya Tanguturi, Dillip Narayan Sahu, " An Intelligent Internet of Medical Things based Smart Healthcare Monitoring Equipment for Patients ", Eur. Chem. Bull. 2023, Vol.12(Special Issue 4), pp.1048-1065. DOI: doi: 10.31838/ecb/2023.12.sa1.279.. (Scopus)
13. Jyothsna Devi.Kuchipudi, B.Srilatha, Rajkumar Gangappa Nadakinamani, Vani V G, Rakhi Kamra, Dillip Narayan Sahu "Classification of Diabetes Disease using Adaptive Bio-Inspired Gene-Level Deep Neural Networks" Eur. Chem. Bull. 2023, Vol.12(Special Issue 1,Part-(A), pp.1048-1065. doi: 10.31838/ecb/2023.12.si4.097 .. (Scopus)
14. Y.A Parvez, P.Ponnusamy, S.Santhosh, Rakhi Kamra, " Synthesis and structural feasibility of photonic materials". The Scientific Temper, Vol.14,No.3,pp: 834-839.2023. Doi: 10.58414/SCIENTIFICTEMPER.2023.14.3.42 (WoS)

#### **Awards and Recognitions:**

1. Awarded faculty contribution award "Certificate of Appreciation -2014-2015" of **MSIT**.

#### **Book Chapter/Books published:**

1. Rakhi Kamra and G.L.Pahuja, "An Efficient Trust Based Approach to Load Balanced Routing Enhanced by Virtual Machines in Vehicular Environment" in book: 'Intelligent Computing and Smart Communication', January 2020, pp. 925-935.DOI: 10.1007/978-981-15-0633-8\_95.
2. Book Chapter: Rakhi Kamra, Vijayakumar N. C. b , Shoieb Ahamed and Aparna Atul Junnarkar, "Challenges and Future Prospects of IoT and AI Integration in Education" in book Progress in Language, Literature and Education Research Vol. 1,B.P. International , ISBN : 9788119761852(Print), 9788119761593(ebook), October 17,2023.
3. Book : Rakhi Kamra, Annu Dagar, Haripriya Ramalingam, Dr. Mangala Shetty (December, 2023): Machine Learning.RK Publications: ISBN : 9788196797720, doi: 10.5281/zenodo.10282299. Machine Learning (zenodo.org)

**Memberships of Professional bodies:** Life Member of ISTE, Membership of International Association of Engineers (IAENG.)

**Dr. Rakhi Kamra**  
**Asst.Professor**  
**Department of EEE**