

Ms. Smriti Singh

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Professional Summary

Academic and researcher specializing in power systems, renewable energy integration, and demand response. Experienced in teaching, curriculum development, and supervising research with strong expertise in reliability and optimization.

Professional Experience

Assistant Professor, Electrical Engineering Department

Lokmata Devi Ahilyabai Holkar Rajkiya Engineering College, Mainpuri (Dec 2017 – Present)

- Teaching UG courses in Electrical Engineering
- Guided projects in Power Systems & Demand Response
- Curriculum design and lab development
- In-Charge Smart Class (administration & digital infrastructure)

Research Interests

- Renewable Energy Resources
- Demand Side Management
- Power System Reliability
- Demand Response Programs

Education

- Ph.D., Electrical Engineering – IIT BHU
- M.Tech. Power System (Gold Medalist) – NIT Kurukshetra
- B.Tech., Electrical Engineering – MMMTU Gorakhpur

Technical Skills

- Power Systems: Modelling, Optimization, Reliability Analysis
- Tools: MATLAB/Simulink, GAMS, Typhoon HIL

Publications

1. Singh, S., Bhati, S., & Saket, R. K. (2026). Stochastic reliability enhancement of renewable-rich power system via LSTM forecasting and degradation-aware resource optimization. *Iranian Journal of Science and Technology*.
2. Singh, S., Maurya, J., Taslima, E., Sagar, B. B., & Saket, R. K. (2024). Physical reliability methods and design for system reliability. *Reliability Analysis of Modern Power Systems*.
3. Singh, S., Saket, R. K., Gupta, A. R., & Tripathi, J. M. (2024). Impact analysis of demand side management for maintaining the voltage profile of distribution system. *Journal of The Institution of Engineers (India): Series B*.
4. Singh, S., Saket, R. K., & Khan, B. (2023). A comprehensive review of reliability assessment methodologies for grid-connected photovoltaic systems. *IET Renewable Power Generation*.
5. Singh, S., Gupta, A. R., & Kumar, A. (2022). Impact of wind generation participation on congested power system. Springer.
6. Singh, S., & Kumar, A. (2017). Demand response program solution to manage congestion in transmission network considering uncertainty of load. *IEEE ICCCNT*.

7. Singh, S., & Kumar, A. (2017). Congestion management using demand response program. IEEE ICPEDC.

Academic Contributions

- Mentored UG/PG students
- Laboratory development and modernization
- Smart classroom implementation
- Academic administration and planning