

Asima Syed, Ph.D.

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Professional summary

Ph.D. in Electrical Engineering, specializing in Power and Energy Systems, with expertise in power system stability, dynamics, and advanced control strategies. Research focuses on renewable energy integration, application of energy storage technologies, and intelligent control methodologies for enhancing grid reliability, dynamic performance, and operational resilience. Demonstrated experience in modeling, analysis, and control of modern power systems under high renewable penetration.

Employment History

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| March, 2026 – Present | ■ Assistant Professor (Contractual) , IOT Zakura, University of Kashmir, J & K |
| November, 2023 – November, 2024 | ■ Guest faculty , Islamic University of Science and Technology, J & K |
| March, 2023 – October, 2023 | ■ Lecturer (Contractual) , IOT Zakura, University of Kashmir, J & K |
| February, 2016 – June, 2016 | ■ Assistant Professor (Contractual) , BGSB University, J & K |

Education

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|------------------------------|---|
| April, 2017 – February, 2023 | ■ Ph.D. Electrical Engineering National Institute of Technology Srinagar, J & K
Thesis title: <i>Dynamic Utilization of Energy Storage for Power System Frequency Control</i> |
| 2013 – 2015 | ■ M.tech. Electrical Engineering Maharishi Markandeshwar University, Haryana
Thesis title: <i>Wind Power Forecasting using Extreme Learning Machine.</i> |
| 2009 – 2013 | ■ B.tech. Electrical and Renewable Energy Engineering Baba Ghulam Shah Badshah University, J & K |

Research Experience

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| April 2019- January 2023 | ■ PhD Senior Research Fellow , Department of Electrical Engineering, National Institute of Technology Srinagar |
| April 2017- April 2019 | ■ PhD Junior Research Fellow , Department of Electrical Engineering, National Institute of Technology Srinagar |

Research Publications

Journal Articles

- 1 A. Syed, H. Ahsan, M.-U. D. Mufti, and A. W. Kumar, "Concerted voltage frequency control and superconducting magnetic energy storage operation using optimal adaptive model predictive control for improved frequency response of power system," *Optimal Control Applications and Methods*, pp. 1–19, Jan. 2023. [DOI: 10.1002/oca.2971](#).
- 2 A. Syed and M. U. D. Mufti, "Coordinated control of wind farm and supercapacitor energy storage system for dynamic performance reinforcement of multi-area power systems," *International Journal of Power Electronics*, vol. 17, no. 3, pp. 261–279, 2023. [DOI: 10.1504/ijpelec.2023.10043312](#).
- 3 A. Syed and M. ud din Mufti, "Constrained neural adaptive predictive control of SMES for dynamic performance improvement of power systems," *Wind Engineering*, vol. 46, no. 6, pp. 1531–1543, Feb. 2021. [DOI: 10.1177/0309524x21992459](#).
- 4 A. Syed and M. ud din Mufti, "PREDICTION-BASED ADAPTIVE CONTROL OF SMES FOR MULTI-AREA POWER SYSTEMS," *International Journal of Power and Energy Systems*, vol. 41, no. 4, pp. 253–260, 2021. [DOI: 10.2316/j.2021.203-0372](#).
- 5 A. Syed and M. ud din Mufti, "Automatic generation control of a wind embedded two-area power system, interconnected through AC/DC transmission system," *International Journal of Industrial Electronics and Drives*, vol. 4, no. 4, pp. 189–195, 2018. [DOI: 10.1504/ijied.2018.099612](#).

Conference Proceedings

- 1 A. Syed and M. U. D. Mufti, "Neural networks based adaptive predictive control of flywheel energy storage for hybrid power systems," in *2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)*, IEEE, Dec. 2023, pp. 1–6. [DOI: 10.1109/PESGRE58662.2023.10404626](#).
- 2 A. Syed, M. U. D. Mufti, and H. Ahsan, "Power system stability augmentation with flywheel energy storage and DFIG kinetic energy," in *2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE)*, IEEE, Jan. 2022, pp. 1–6. [DOI: 10.1109/pesgre52268.2022.9715883](#).

Books and Chapters

- 1 A. Syed and M. U. D. Mufti, *Neuro Adaptive Predictive Control of Flywheel Energy Storage for Hybrid Power Systems*. Springer, Dec. 2024. [DOI: 10.1007/978-981-97-5951-4_8](#).

Skills

Languages	■	Strong reading, writing, and speaking competencies for English, Urdu, Hindi (read, write, speak), Kashmiri (read, speak).
Software Tools	■	MATLAB/Simulink
Publication tools	■	LaTeX, Visio, MS Office
Hardware interface	■	OPAL RT

Personal Information

Nationality	■	Indian
Date of Birth	■	09 March, 1990
Permanent Address	■	Iqbalabad, Anantnag, Jammu and Kashmir
Phone	■	(+91) 7006568252

References

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