FACULTY PROFILE

Dr. Satendra Kushwaha

Designation: Assistant Professor

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Professional Qualification:

- Ph.D,MNNIT Allahabad, Prayagraj, India, 2020.
- M.Tech, Delhi Technological University Delhi, India, 2015.
- B.Tech, KNIT Sultanpur, India, 2012.

Publications (Journals & Conferences):

- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel "Stability Assessment and robust controller design of Grid-Interactive Offshore Wind Farm and Marine Current Farm with STATCOM and BFCL" *Automatika (Taylor & Francis*) Vol. 62, no. 2, 197–209, 2021
- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel "Impact of STATCOM and BFCL on Performance of Distance relay and its improvement by adaptive setting for Grid Interactive Offshore Wind and Marine Current Farm" *IET Generation,Transmission & Distribution,* vol. 14, no. 23, pp. 5547 – 5557, 2020.
- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel "Robust H∞ controlfor stability assessment in grid-connected offshore wind and marine current hybrid system" *IET Renewable Power Generation*, vol. 13, no. 2, pp. 318-329, 2019.
- D. R. Karthik, B. Mallikarjuna Reddy, Satendra Kr Singh Kushwaha and Akbar Ahmed
  "Application of FPGA Controller in Multidevice Interleaved DC/DC Boost Converter for AirCraft Electrical Systems" *Indian Journal of Science and Technology*, Vol. 9, no. 44, pp. 1- 7, 2016.
- Satendra Kr Singh Kushwaha, Satyprakash, Akhilesh Kumar Gupta, Akbar Ahmad, BandiMallikarjuna Reddy, Narendra Kumar Ch "Techno-Economic Issues of Grid Connected Large Photovoltaic Plants of Smart City Prayagraj to the EV ChargingStation: A Case Study (A Case Study of 5 MW Photovoltaic Power Plant at

Prayagraj)" *Book Chapter in Smart Charging Solutions for Hybrid and Electric Vehicles*, Wiley, pp. 419-436, March 2022.

- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel "Stability analysis of an offshore wind and marine current farm in grid connected mode using SMES" Intelligent Computing Techniques for Smart Energy Systems, *Lecture Notes in Electrical Engineering, Springer*, vol 607, Dec. 2019.
- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel, "Stability Assessment and Robust Controller Design of Grid Interactive Offshore Wind Farm and Marine Current Farm using STATCOM," *IEEE International Conference on Energy, Systems and Information Processing (ICESIP), Chennai, India*, 2019, pp. 1-6, 2019.
- Satendra Kr Singh Kushwaha, S. R. Mohanty and Paulson Samuel, "Non-linear H infinity Control for Grid-interactive Offshore Wind Farm and Marine Current Farm," *IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES), Delhi, India*, pp. 420-425, 2018.
- Satendra Kr Singh Kushwaha, Paulson Samuel and S. R. Mohanty "Transient Stability Analysis of SCIG based Marine Current Farm and Doubly Fed Induction Generator based offshore wind farm using Bridge Type Fault Current Limiter" *IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics,Mathura*, pp. 494-499, 2017.
- K. Sekhar, Satendra Kr Singh Kushwaha, D. R. Karthik, V. M. Reddy and B. M. Reddy "Transient stability analysis of large-scale grid integration of offshore wind and marine current farm connected to grid using STATCOM," *Innovations in Power and Advanced Computing Technologies (I-PACT), Vellore*, pp. 1-6, 2017.
- D. R. Karthik, B. M. Reddy and Satendra Kr Singh Kushwaha, "A PSCAD simulation on integration of multi-level converters with DCDC converter for AC drive applications," I*nternational Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil*, pp. 1-62016.
- Satendra Kr Singh Kushwaha and S. T. Nagarajan, "Stability analysis of off shore marine current farm connected to grid," *IEEE International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam*, 2015, pp. 466-471, 2015.

Workshops/Seminars/FDPs

- Networked and Embedded Control of Energy & Systems, October 14-15, 2016 EED MNNIT Allahabad 2016
- Photovoltaics: Technology and Business Overview, March 04-06, 2017 Physics and EED, MNNIT Allahabad 2017
- Advances in Power Electronics and Renewable Energy Resources, 21-23 July, 2017 EED MNNIT Allahabad 2017
- Global Initiative of Academic Networks (GIAN) on "Power System Vol/VAR Control and Voltage Stability" during 26-30 December, 2017 in the Department of electrical engineering, MNNIT Allahabad, India

- Modelling and Simulation of renewable energy systems, May 28- June 3, 2018 EED, MNNIT Allahabad 2018.
- Unpacking E-Mobility Technologies for India, November 20-24, 2021 MNNIT Allahabad 2021.

Work Experience: 2.5 Year

Professional Memberships:

- ISTE, IEEE