Dr. Sheeja V

Assistant Professor
Dept. of Electrical and Electronics Engineering
LBS College of Engineering
Kasaragod, Kerala, India- 671542

EDUCATION

- Ph.D.- National Institute of Technology Karnataka- July 2024
- M.Tech (Energy Studies) – Indian Institute of Technology Delhi- May 2009
- B.Tech (Electrical & Electronics Engineering) – Calicut University- 2000

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RESEARCH INTERESTS

Power Electronics Applications to Power Systems, Renewable Energy Integration, Power Converters,

PROFILES

GOOGLE SCHOLAR : https://scholar.google.com/citations?user=2AlfHoYAAAAJ&hl=en

ORCID PROFILE : **https://orcid.org/0000-0002-4685-6627**

PROFESSIONAL EXPERIENCE

- **LBS College of Engineering** | Kasaragod | Assistant Professor | 23rd May 2012 to till date

SUBJECTS TAUGHT

- **UG Level**
  Power Electronics, Power Quality, Power System, Machines
- **PG Level**

Power Quality, Wind Energy Conversion System, Custom Power Devices, Energy Managemnet

MEMBERSHIPS IN PROFESSIONAL BODIES

1. ISTE

JOURNAL/CONFERENCE PUBLICATIONS

1. "Control of Converter for a Solar PV-BESS Powered Telecom Load With Real, Reactive and Harmonic Power Exchange With Grid," in IEEE Access, vol. 11, pp. 141008-141021, 2023, \\DOI: 10.1109/ACCESS.2023.3340433. (SCIE)
2. "A Non-isolated Bidirectional High Gain Integrated Multiport Converter for Grid Tied Solar PV Fed Telecom Load," IET Power Electronics, vol. 16, no. 5, April 2023, pp. 828 – 842, DOI: 10.1049/pel2.12426
3. **"Power Flow Management of a Solar PV and Battery Powered Telecom Load with Bidirectional Grid Power Exchange," 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON), 2021, pp. 1-6, doi: 10.1109/GUCON50781.2021.9573582.**
4. **"Time Sharing Control Based New Four Port Converter for Grid Integrated Solar PV Fed BTS Load" IEEE Power Electronics Drives and Energy System (PEDES), 16-19 December, 2020 Jaipur, Rajasthan, India, doi: 10.1109/PEDES49360.2020.9379462.**
5. **"A Reduced Switch Count Switched Capacitor Based High Voltage Gain Bidirectional DC-DC Converter for Grid Integration of BTS," 5th IEEE International Conference on Computing, Communication and Automation (ICCCA), India, October 30-31,2020, Galgotias University, Grater Noida, India, doi: 10.1109/ICCCA49541.2020.9250832.**
6. **"A New Three Port Converter with Power Flow Management Control for Solar PV fed Telecom Load." IEEE International conference on Power Electronics and Renewable Energy Applications (PEREA) 2020, 27-28 November 2020, Kannur, India, doi: 10.1109/PEREA51218.2020.9339819.**
7. **Comparative Analysis of SRF, PI and AWPI Controllers for Hybrid Standalone Microgrid," In Proceedings of International Conference on Power Electronics and Renewable Energy Applications (PEREA), 2020, pp. 1-6, DOI: 10.1109/PEREA51218.2020.9339774.**
8. **"Interleaved High Gain Bidirectional DC-DC Converter for Grid Integrated Solar PV Fed Telecommunication BTS Load," 8th IEEE India International Conference on**

Power Electronics (IICPE), December 13-15,2018, Jaipur, India, doi: 10.1109/IICPE.2018.8709522.

9. **"Stand Alone Wind Power Generating System Employing Permanent Magnet Synchronous Generator," in Proc. of International Conference on Sustainable Technologies (ICSET'08), Singapore, Nov. 2008, pp. 616-621.**
10. **"BESS based voltage and frequency controllers for standalone wind energy conversion system employing PMSG," in *Proc. of IEEE Industrial applications society general meeting, Boston, USA,* Oct 2009.**
11. **"Voltage and frequency controllers for standalone WECS employing permanent magnet synchronous generator," in *Proc. of IEEE International Conf. on Power systems, Kharagpur, India, Dec* 2009.**
12. **"Neural network theory based voltage and frequency controller for stand alone wind energy conversion system," in Proc. Of *IEEE International conf. on Power electronics, Drive and Energy Systems (PEDES*), Dec 2010, India.**
13. **"VF Controller for stand alone wind energy conversion system employing PMBL generator," in Proc. Of *National Power Systems Conference, Hyderabad*, India, Dec 2010.**
14. **"Isolated wind energy conversion system for three-phase four wire loads employing Adaline based voltage-frequency controller," *in Proc. of IEEE Industrial Electronics Conference (IECON'12),* Montreal, Canada, Oct-2012.**

LIST OF EXPERT TALKS DELIVERED

1. Resource Person in a One-Week SERB sponsored High-End Workshop (KARYASHALA) titled "Grid Connected Photovoltaic Inverter Design and MPPT Implementation" organized by the Department of Electrical and Electronics Engineering, National Institute of Technology Puducherry, Karaikal from 6 - 12 May 2024.

SHEEJA V