

RAJESH UPPARA

Affiliation (Assistant Professor, Dept of EEE, SIT)

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Education

	Degree	Year	Institute	Specialization
1	M.E	2013	Anna University Regional Campus, Coimbatore, Tamilnadu.	Power Electronics & Drives
2	B.Tech. in	2010	Narayana Engineering College, Nellore , Andhra Pradesh.	Electrical&Electronics Engineering
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Professional Experience

	Date (from-to)	Designation	Organization
1	25/07/2014-Till Date	Assistant Professor	Siddaganga Institute of Technology(SIT),Tumakuru,Karnataka
2	18-07-2013-05- 08-2014	Assistant Professor	St. Johns College of Engineering& Technology,Yerrakota, Yemmiganur- 518360, Kurnool Dist,A.P
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(Please fill in reverse order. Current designation should be at the top)

Positions held

Timetable Coordinator

ISO Coordinator

Affiliations of Professional organizations

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Awards and Honors

- Summer Faculty Research Fellowship (SFRF-2022) at IIT Delhi for Two Months (08th June-2022 to 29th July 2022)
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Courses Taught

Undergraduate Courses

- Advanced Power Electronics (7th Semester UG)
- Electric Vehicle Technology (6th and 7th Semester)
- Power Electronics (6th Semester)
- Foundations of Electrical Engineering
- HVDC Transmission (7th Semester)
- Basic Electrical Engineering (1st semester UG ,A,B,L-H Sections)
- Solar and Wind Energy Conversion Systems (VIIIth Semester UG)
- Introduction to Electrical Engineering

Postgraduate Courses

- Power Electronics Applications to HVDC & FACTS (2nd semester PG)
- Switched Mode and Resonant Converters (1st semester PG).
- Power Electronics Application to Renewable Energy Systems (2nd semester PG)
- Soft Computing (1st semester PG)

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion

Research Areas

- Electric Vehicle Technology
- Solar and wind Energy Conversion Systems

- Power Electronics

Sponsored Projects

Ongoing Projects:

1. Title:
Funding Agency:
Amount:
Duration:
Role:
2. Title:
Funding Agency:
Amount:
Duration:
Role:

Completed Projects:

1. Title: Regenerative Electric Vehicle for Material Delivery
Funding Agency: Nidhi Prayas -2022 Under DST.
Amount: Rs 10,00,000/- (Ten Lakhs)
Duration: 24 Months
Role: Principal Investigator

Title:
Funding Agency:
Amount:
Duration:
Role:

Publications

Journals

- Priya S and Rajesh Uppara, "Renewable Energy Fed BLDC Motor with DC-DC Converter by Implementing MPPT Technique for EV Application," *International Conference on Emerging Trends in Engineering, Science and Management (ICETESM18)*, vol. 7, pp. 69–73, Mar. 2019.
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- Bhumika K. S., Madhumitha G., Priya S., and Rajesh Uppara. "Comparative Analysis of LUO Converter with and Without MPPT for PV Applications." *Journal of Mines, Metals and Fuels*, 2022,

Conference Proceedings

- R. Uppara and S. Priya, "Machine Learning-Based DC to AC Dual Quasi Z-source Converter for Distribution Generation Applications," *2025 Fourth International Conference on Power, Control and Computing Technologies (ICPC2T)*, 2025.
- R. Uppara , Nandeesh J, "Design and Simulation of LLC Converter Based On-Board Battery Charger for Electric Vehicle Applications" International Conference on Smart Systems for Applications in Electrical Sciences, ICSSSES 2025.
- R. Uppara and S. Priya, "Analysis of Interleaved Bidirectional DC/DC Converter for Battery Charging & Discharging Applications," *2024 International Conference on Smart Systems for Applications in Electrical Sciences (ICSSSES)*, 2024, pp.
- T. V. Sushmitha, C. P. Deepika, R. Uppara and R. N. Sai, "Vehicle Trajectory Prediction using Non-Linear Input-Output Time Series Neural Network," 2019 International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES), Mangalore, India, 2019, pp. 1-5, doi: 10.1109/PETPES47060.2019.9003797.
- Bhavya, S.N., Rajesh, U. (2019). Comparative Study of Different High-Gain Converter. In: Sridhar, V., Padma, M., Rao, K. (eds) *Emerging Research in Electronics, Computer Science and Technology. Lecture Notes in Electrical Engineering*, vol 545. Springer, Singapore.
- S.N. Bhavya and R. Uppara, "A DC-DC Converter with High Gain Suitable for Crop Machinery," *2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)*, Bangalore, India, 2018.
- Suresh K V, Vinayaka K U and Rajesh U, "A CUK-SEPIC fused converter topology for wind-solar hybrid systems for stand-alone systems," *2015 IEEE Power, Communication and Information Technology Conference (PCITC)*, Bhubaneswar, India, 2015

Book Chapters

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Books

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Editorial

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Reviewer of Journals

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(Please give details in IEEE format)

Editor/ Reviewer of Journal

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Patents

- Electric Vehicle for Transporting Goods (Reg:408468-001) Dated-23/02/2024
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Invited Lectures, talks and workshops

- Delivered a Technical Talk as a Resource Person on “PV and Battery Sizing For Roof Top Application” at Department of Electrical and Electronics Engineering, Vidyavardhaka College of Engineering, Mysore, Karnataka
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