

## Rupesh K C

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Faculty ID: SIT0135

### Education

	Degree	Year	Institute	Specialization
1	MTech	2001	National Institute of Engineering, Mysore	Computer Applications in Industrial Drives
2	BE	1998	SJM Institute of Technology, Chitradurga	Electrical and Electronics

### Professional Experience

	Date (from-to)	Designation	Organization
1	Jan 2011 – Till date	Assistant Professor (Re-designated)	Siddaganga Institute of Technology, Tumakuru
2	Sept 2009 – Dec 2010	Senior Lecturer	Siddaganga Institute of Technology, Tumakuru
3	Sept 2003 – Sept 2009	Lecturer	Siddaganga Institute of Technology, Tumakuru
4	July 2001 – Aug. 2003	Lecturer	Bahubali College of Engineering, Shravanabelagola

*(Please fill in reverse order. Current designation should be at the top)*

### Positions held

- Department Technical Seminar Coordinator
- Department Activity Point Coordinator

### Affiliations of Professional organizations

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### Awards and Honors

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## Courses Taught

### Undergraduate Courses

- Basic Electrical Engineering
- Microprocessor and Microcontroller
- Electrical Power Generation
- Power Electronics
- Integrated Circuits and Applications
- DC and synchronous machines
- Switch gear and protection
- Electric Power Utilization
- Embedded Systems

### Postgraduate Courses

- PWM Converters and Applications
- Power Converters - II

## Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion

## Research Areas

- Power Electronics and Drives
- Embedded System

## Sponsored Projects

## Publications

### Journals

- Rupesh K C Amrutha H, "ABB 800xA applications in Process Control of a Stirred Reactor," International Journal of Recent Technology and Engineering, pp 508-511, Vol.8, Issue 256, 2019

- Srinidhi Jois, Chandana G H, K C Rupesh, "Solar Battery Charger with Hybrid Inverter," International Journal of Engineering Research in Electrical and Electronic Engineering, Vol. 7, Issue 9, 2020

#### Conference Proceedings

- Naziya Parveen, K C Rupesh," Design and simulation of interleaved DC-DC boost converter for three-phase loads using solar panel," IEEE International Conference on Computation of Power, Energy Information and Commuincation (ICCPEIC), pp 514-519, 2016
- H R Sowmya, H S Sridhar, K C Rupesh, " Comparative Analysis of Different Interleaved DC-DC Converters," IEEE International Conference on Computer Communication and Informatics (ICCCI), pp1-6, 2022
- H U Shruthi, K C Rupesh, "Phase Shift Control Scheme of Modular Multilevel DC/DC Converters for HVDC-Based Systems," Emerging Research in Electronics, Computer Science and Technology, pp 1243-1254, vol 545, Springer, 2019
- M Ashirvad, K C Rupesh, "Quadratic Boost Converter for Grid-Connected Micro-Inverter," International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 14 Issue 2 –2015
- B. K. Sahana and K. C. Rupesh, "A Single-Phase Hybrid Seventeen Level Multilevel Inverter Topology," IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES), pp. 476-480, 2022.
- Sowmya H R, Sridhar H S and Rupesh K C, "Comparative Analysis of Different Interleaved DC-DC Converters," IEEE International Conference on Computer Communication and Informatics (ICCCI), pp. 1-6, 2022.
- Y Harshalatha, K C Rupesh, "Performance Comparison of 3D Video Encoders with Depth Map Filtering," 5th IEEE International Conference on Contemporary Computing and Informatics (IC3I), pp. 1042-1045, 2022
- Arpitha H A, Rupesh K C, "Design and Simulation of Parallel Inverters for Resonant Current Suppression," IEEE North Karnataka Subsection Flagship International Conference (NKCon), Vijaypur, India, pp. 1-6, 2022

- K C Rupesh, G Renushree, S Deepika, R Anjali, Meghana Dinesh Naik, “ 2<sup>nd</sup> IEEE International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES),” Tumakuru, India, pp. 1-6, 2024
- K C Rupesh, J M Harini, H M Yogesh Krishna, Santhoshreddy G R, V S Chandrashekar, Smrithi Karnatak S V, “Bladeless Wind Turbine: An IoT-Based Approach,” 3rd International Conference on Smart Systems for applications in Electrical Sciences (ICSSSES), Tumakuru, India, pp. 1-5, 2025
- K. C. Rupesh and Y. Harshalatha, “Sensor Perception Reliability in Automated Vehicles,” Proceedings of 4th International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication Embedded Systems (VSPICE-2023), Nitte, India, vol. 1227, pp. 31–40, 2024

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#### Book Chapters

- H U Shruthi, K C Rupesh, “Phase Shift Control Scheme of Modular Multilevel DC/DC Converters for HVDC-Based Systems,” Emerging Research in Electronics, Computer Science and Technology, pp 1243-1254, vol 545, Springer, 2019
- K. C. Rupesh and Y. Harshalatha, “Sensor Perception Reliability in Automated Vehicles,” Proceedings of 4th International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication Embedded Systems (VSPICE-2023), Nitte, India, vol. 1227, pp. 31–40, 2024

#### 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
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## Invited Lectures, talks and workshops

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