

**Ms. Vijayalakshmi K M.E.,**  
**Assistant Professor,**  
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Ms. Vijayalakshmi K holds the position of an assistant professor within the Department of Electrical and Electronics Engineering at SRM Institute of Science and Technology (SRMIST), Ramapuram Campus. Her academic journey includes earning a bachelor's degree in Electrical and Electronics Engineering from Rajalakshmi Engineering College. Further she successfully completed a Master of Engineering program specializing in Embedded Systems from Anna University's College of Engineering, Guindy (CEG) campus.

Ms. Vijayalakshmi is currently engaged in pursuing a Ph.D. in the realm of electrical machines and drives, focusing particularly on applications for electric vehicles. She has total teaching experience of about 14 years.

#### **Areas of Research:**

Electrical machines and drives, Power Electronics, Embedded System.

#### **Selected Publications:**

Vijayalakshmi, Karunakaran, and Kandadai Nagaratnam Srinivas. "Sensitivity Analysis of Switched Reluctance Motor for Potential Application in Electric Vehicles Considering Weight Factor." (2022).

Vijayalakshmi, Karunakaran, and Kandadai Nagaratnam Srinivas. "Reduction of torque ripple, vibration and noise in switched reluctance motors focusing on electric vehicle applications: a survey." *International Journal of Vehicle Noise and Vibration* 17, no. 1-2 (2021): 51-81.

Vijayalakshmi, K., and Srinivas Kn. "Intelligent Control of Switched Reluctance Motor Using Fuzzy Logic and SMC Controller for EV Applications." *International Journal of Engineering Education* 4, no. 2 (2023): 42-57.

“Quadratic Boost Converter Fed Switched Reluctance Motor with Improved Dynamic Response”,  
International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online),  
Volume-8 Issue-6, March 2020

Performance Of Dvr And Idvr For Voltage Sag Compensation In Power Distribution Network  
International Journal of Pure and Applied Mathematics ,Volume 119 No. 16 2018, 4225-4239

**Patents:**

Design patent “ HYDROGEN-FUELLED E-BIKE”

Smart monitoring using hybrid distributed generation system on IOT based Automation

Designing a nanostructured photovoltaics on solar panels to increase the efficiency of solar energy utilization

Optimal scheduling of electric car charging and discharging at a parking station with a solar system and an energy storage unit

**Professional Bodies:**

Member –IAENG and ISTE

**Google Scholar:**

<https://scholar.google.com/citations?user=rc48e0oAAAAJ&hl=en&authuser=1>

**LinkedIn:**

<https://www.linkedin.com/feed/>