



Dr. Needhu Varghese

Associate Professor, Electrical & Electronics Engineering

Administrative Responsibilities

- Third year batch coordinator
- Secretary of College Sports Council
- Member of Media and Promotion College Committee
- NBA coordinator of EEE Dept.

Education Summary

- B.Tech Electrical and Electronics Engineering, Jyothi Engineering College Cheruthuruthy, Thrissur, Kerala, India
- M.Tech. in Power Systems, Government Engineering College Thrissur, Kerala, India
- PhD. in Electrical Engineering from Calicut University (Government Engineering College Thrissur)

Employment History

- Asst. Professor, Electrical and Electronics Engineering Department - IES Enengineering College Chittilappilly, Thrissur, Kerala, India -Jan 2012 to Aug 2013
- Asst. Professor, Electrical and Electronics Engineering Department, Department Christ College of Engineering, Irinjalakuda, Thrissur, Kerala, India – July 2017 to Feb 2023

- Asst. Professor and Head of the Department, Electrical and Electronics Engineering Department, Department Christ College of Engineering, Irinjalakuda, Thrissur, Kerala, India – Oct 2020 to Nov 2021
- Associate Professor, Electrical and Electronics Engineering Department, Department Christ College of Engineering, Irinjalakuda, Thrissur, Kerala, India – March 2023 to present

Research Experience

- Full time research scholar in Government Engineering College Thrissur under TEQIP scheme- Aug 2013 to July 2017

Journal/Conference Publications

- Needhu Varghese, Reji P., ‘Energy storage management of hybrid solar/wind standalone system using adaptive neuro-fuzzy inference system’. International Transactions on Electrical Energy Systems, 29(7), 2019
- Needhu Varghese, Reji P., ‘Maximum Power Point Tracking of Photovoltaic System Using Buck Converter for a DC House’ International Journal of Scientific and Technology Research, vol. 8, no. 12, 2019
- Needhu Varghese, Reji P., ‘ Short Term Load Forecasting Considering Weather Information and Price’ International Journal of Emerging Science and Technology, vol 1, issue10, pp 5-10, Aug. 2013
- Presented a paper titled Maximum Power Point Tracking of Photovoltaic System Using Buck Converter for a DC House’, International Conf. on Perceptions in Biomedical Engineering and Affordable Healthcare Technologies (MEDCON 2019), May 2019 (Best paper award)
- Presented a paper titled “ Battery Charge Controller for Hybrid Stand Alone system using Adaptive Neuro Fuzzy Inference System” in the international conference ICEETS 2016 conducted by St. Xaviers Catholic College of Engg. Nagercoil on 7th and 8th April 2016
- Presented a paper titled “ Short term Load Forecasting using ANN Considering Weather Information” in the international conference ICETT 2012 conducted by Baseli Mathews II College of Engg. on 20th and 21st February 2012
- Presented a paper titled “Short Term Load Forecasting using Support Vector Regression With Genetic Algorithm” in the national conference NET 2011 conducted by Govt. Engg. College Kozhikode on 25th and 26th February 2011

- Presented a paper titled “Short Term Load Forecasting using ANN considering effect of temperature and humidity ” in the national conference Emerging trends in Power Systems and Energy management 2011 conducted by St. Joseph’s College of Engg. & Technology Palai on 15th January 2011

Areas of Interest

- Renewable Energy Systems
- Power Management
- Internet of Things

Achievements

- MTech Calicut University Second Rank Holder
- BTech Calicut University Fourth Rank holder
- Gate Score – 410 (2008)