Dr. Vishnu P Madhanmohan

Assistant Professor, Electrical & Electronics Engineering

Administrative Responsibilities

- Admission Committee member
- Anti-ragging Squad Committee member
- Grievance Redressal Cell for students Committee member
- NIRF Nodal officer
- In-charge of Department Technical Bulletin
- Department NBA criteria 3 coordinator
- Stream head – Circuits and power system
- Lab in charge – Power systems

Education Summary

- PhD from APJ Abdul Kalam Technological University 2021, Kerala
- M Tech in Power electronics, Visvesvaraya Technological University (VTU), Belgaum, Karnataka in 2012
- B.Tech in Electrical & Electronics, From Calicut University in 2009

Employment History

- Assistant Professor at Christ College of Engineering, Irinjalakuda (present)
- Assistant Professor, Electrical and Electronics Engineering department, IES College of engineering, Thrissur, Kerala. (2.5 years)
- Guest Faculty, Part time - evening batch B. Tech, Electrical Engineering

department, Government Engineering College, Thrissur, Kerala. (1.5 years)

- Guest Faculty, PG Diploma in Sustainable and Green Energy Technologies, Department of Chemistry, Christ College, Irinjalakuda, Thrissur, Kerala (1 year)

Journal/Papers Published

- Vishnu P. Madhanmohan, M. Nandakumar and Abdul Saleem "Durer's Square Based Photovoltaic Configuration to Mitigate Partial Shading Losses" 2020 International conference on Power Electronics and Renewable Energy Applications (PEREA) IEEE, 2020

- Vishnu Madhanmohan, A. Saleem and M. Nandakumar, "An Algorithm for Enhanced Performance of Photovoltaic Array under Partial Shading Condition," in IEEE Access, doi: 10.1109/ACCESS.2020.3025906

- Vishnu P. Madhanmohan, and M. Nandakumar. "Effects of partial shading in different PV module configurations with minimum interconnections." 2018 International Conference on Power, Instrumentation, Control and Computing PICC). IEEE

- Vishnu Madhanmohan, M. Nandakumar, and Abdul Saleem. "Enhanced performance of partially shaded photovoltaic arrays using diagonally dispersed total cross tied configuration." Energy Sources, Part A: Recovery, Utilization, and Environmental Effects (2020): 1-19.

- Durer's Square Based Photovoltaic Configuration to Mitigate Partial Shading Losses" 2020 International conference on Power Electronics and Renewable Energy Applications (PEREA), organized by IEEE and Government College of Engineering Kannur. from November 28-29, 2020

- " Effects of Partial Shading in Different PV module Configuration with Minimum Interconnections" in the international conference PICC 2018, conducted by Government Engineering College ,Thrissur from 18 to 20 January 2018

- " Modified Hill Climbing Method Using Fuzzy Logic Control for Maximum Power Point in PV system" in the National conference NCRDPE 2015, conducted by Sri Venkateshwara College of Engineering, Bangalore on 5 August 2015

- "A modified Hill Climbing Method Using FLC for MPPT systems" in National conference IESPEC 2013,conducted by IES College of Engineering, Thrissur

Specialized Trainings

- "Solar Photovoltaic System Design and MPPT Implementation" at Department of Electrical Engineering, NIT, Trichy.

- "School on Advanced Control Systems" at Government Engineering College, Thrissur sponsored by Directorate of Technical Education, Kerala.

- "The Art of Technical Writing and Publishing in the Pursuit of Academic Excellence" at SCMS School of Engineering and Technology organized by Innovation and Entrepreneurship Development Centre

- "Workshop on Research Writing and Authorship" at Government College of Engineering, Kannur organized by Centre of Excellence in Systems Energy & Environment

- "Control Systems and Sensor Technology on the topic Robotics and Artificial Intelligence" at Government Engineering College, Thrissur sponsored by All India Council for Technical Education

- "Training Programme on "Control systems: Theory and Applications" Department of Electrical Engineering, Government Engineering College, Thrissur.

- "National Workshop on Matlab Simulation & Embedded system development for power electronic converters-hands on training". Department of Electrical Engineering, NIT, Calicut.

- "Capacity Building Program on Energy Conservation Building" by Energy Management Centre, Trivandrum.

- "Workshop on Design and Installations of Solar PV Systems" at Energy Management Centre, Trivandrum.

- "Research Colloquium on Research Opportunities in Power Systems" Organized by Department of Electrical Engineering College of Engineering, Trikaripur.

- "Short Term Training Programme on "Advances in Off grid and Grid tied Solar PV Systems" Department of Electrical Engineering, Government College of Engineering, Kannur.

- "Research Colloquium on Power Quality and Renewable Energy" Department of Electrical Engineering, Rajiv Gandhi Institute of Technology, Kottayam.

- "IEEE Fall School on Modern Sliding Mode Control", Department of Systems & Control, IIT Bombay.

- "Faculty Development Program on "Instructional Design & Delivery System",

National Institute of Technical Teachers Training and Research, IES College of Engineering, Thrissur.

Areas Of Interest

- Partial shading effects on photovoltaic arrays
- Renewable energy systems
- Solar photovoltaics

Achievements

- Received fellowship from Department of Kerala higher education for research work (2015-2018)