

Dr. N.Muruganantham

Associate Professor & Head



Education Qualification:

Ph. D. – Electrical and Electronics Engineering – Anna University, Chennai.

M.E. – Power Electronics and Drives – Anna University, Chennai.

B.E. – Electrical and Electronics Engineering – Periyar University, Salem.

D.E.E.E. – Electrical and Electronics Engineering – DOTE, Chennai.

Teaching Experience:

- Working as Associate Professor and Head of the Department in EEE at Periyar Maniammai Institute of Science and Technology (Deemed to be University), Thanjavur from April 2014 to Till Date.
- Worked as Assistant Professor in the Department of EEE at Periyar Maniammai Institute of Science and Technology (Deemed to be University), Thanjavur from June 2010 to March 2014.
- Worked as Lecturer in the Department of EEE at K.S.R College of Technology (An Autonomous Institution Affiliated to Anna University Chennai), Tiruchengode, Namakkal from January 2007 to April 2010.
- Worked as Lecturer in the Department of EEE at Dhanalakshmi Srinivasan Polytechnic College, Perambalur from June 2004 to May 2005.

Area of Specialization:

- Power Electronics.
- Special Machines.
- Solid State Drives.
- Electrical Machines.
- Artificial Intelligence.
- Power Electronics for Renewable Energy Systems.
- Smart Meters.
- Lead Acid Battery.
- Electronic Devices.
- Soft-Switching Converters.

Papers Publication:

1. Published a paper in International Journal on Advanced Research in Dynamical & Control Systems, Volume 11, Issue 6, 2019. Entitle of "Smart Internet of Things System Based Reliable and Secure Data Transmission in Smart Energy Meter Using Multi-Model Building Predictive Control Algorithm".
2. Published a paper in International Journal of Scientific Research in Computer Science Engineering and Information Technology, Volume 03, Issue 8, 2018. Entitle of "IoT Based Smart Energy Meter for Tariff Calculation, Disconnection and Reconnection of the Load".
3. Published a paper in International Journal for Scientific Research and Development, Volume 06, Issue 2, 2018. Entitle of "Defended Data Transmission Scheme Based Reliable Metering for Smart Grid Applications".
4. Published a paper in International Journal of Networks, Software Tools and Applications, Volume 10, Issue 3, 2018. Entitle of "Two-Switch Boosting Switched Capacitor Converters".
5. Published a paper in Middle-East Journal of Scientific Research, Volume 24, Issue 7, pp. 2266-2274, 2016. Entitle of "Integrated Smart Meter Using Reliable Energy Management Scheme (REMS) for Smart Grid Applications".
6. Published a paper in International Journal of Applied Engineering Research, Volume 10, Issue 3, pp. 6057-6069, 2015. Entitle of "A Normalized Least Mean Squares Algorithm Based On-Line Adaptive Selective Current Harmonic Elimination Technique for Three Phase AC Voltage Controllers".
7. Published a paper in Journal of Theoretical and Applied Information Technology, Volume 49, Issue 3, pp. 929-939, 2013. Entitle of "Adaptive Neuro-Fuzzy Inference System Based Controller for High Performance BLDC Motor Using Soft Switching Inverter".

8. Published a paper in Journal of Wulfenia, Volume 20, Issue 2, pp. 93-103, 2013. Entitle of "Experimental Investigation on Fuzzy Logic Controller for High Performance Permanent Magnet Brushless DC Motor Using Soft-Switching Inverter".
9. Published a paper in International Journal of Electrical Engineering, Volume 5, Issue 7, pp. 863-880, 2012. Entitle of "Hybrid Intelligent Controllers Based Speed Control of PMLDLC Motor Using Soft-Switching Inverter".
10. Published a paper in American Journal of Applied Sciences, Volume 9, Issue 12, pp. 2012-2020, 2012. Entitle of "Genetic Based Plus Integral Controller for PMLDLC Motor Control Using Resonant Pole Inverter".
11. Published a paper in European Journal of Scientific Research, Volume 78, Issue 2, pp. 259-272, 2012. Entitle of "Hybrid Fuzzy-PI Controller Based Speed Control of PMLDLC Motor Using Soft-Switching Inverter".
12. Published a paper in International Journal of Electrical Engineering, Volume 4, Issue 5, pp.601-616, 2011. Entitle of "Novel Soft Switching Inverter for Brushless DC Motor Using Fuzzy Logic".
13. Published a paper in PMU Journal of Engineering and Technology, Volume 2, Issue 1, pp. 39-48, 2011. Entitle of "Comparative Analysis on a Novel Four Switch AC to AC Converter Fed BLDC Motor for Power Conditioning".
14. Published a paper in PMU Journal of Engineering and Technology, Volume 2, Issue 1, pp. 17-26, 2011. Entitle of "Power Conditioning and Utility Interface of Renewable Energy Source Using Z-Source Inverter".
15. Published a paper in International Journal of Engineering Science and Technology, Volume 2, Issue 10, pp. 5099-5106, 2010. Entitle of "State Space Modeling and Simulation of Sensorless Permanent Magnet BLDC Motor".
16. Published a paper in International Journal of Applied Engineering Research, Volume 4, Issue 7, pp. 1223-1239, 2009. Entitle of "Sensorless Methods for Brushless DC Motor with Trapezoidal Back EMF – A Survey".

Membership in Professional Bodies:

- IE (India) - Life Member.
- IEEE - Annual Member.
- ISTE - Life member.