

Mr. S.Palanikumar  
Assistant Professor  
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21 years of Teaching, Training, Research, and administrative experience.

Joined AMET Deemed to be University in 2020 as Assistant Professor in the Department of Electrical and Electronics Engineering. Areas of interests are: Wind Energy conversion systems, Doubly Fed Induction Generators, Impedance source inverters, Electric vehicles, and retrofitting technology for gasoline engine-based vehicles to EV/HEV. Qualifications: Ph.D. thesis submitted in Anna University, Chennai, M.E.-Power Electronics and Drives (Year of passing 2005) from Anna University, and B.E.-Electrical and Electronics Engineering.

### **Professional Experience:**

- Assistant Professor/EEE, University Projects committee member, Project Coordinator (UG, PG) in K.L. University (NAAC A++ accredited) Guntur dt, Andhra Pradesh from 3.10.2017 to 26.12.2019.
- Principal i/c and HOD/EEE, PGP College of Engineering and Technology, Namakkal Tamilnadu from 1/9/2016 to 07/06/2017.
- Vice-Principal & HOD/EEE, Department of Electrical and Electronics Engineering, Shreenivasa Engineering College, Bommidi, Dharmapuri dt, Tamilnadu from 5/6/2014 to 15.07.2016.
- Associate Professor & HOD/EEE, Department of Electrical and Electronics Engineering, Sri Shakthi Institute of Engineering and Technology, L&T bypass Road, Coimbatore from 9/8/2010 to 31.05.2014.
- Assistant Professor & Head of the Department, Department of Electrical and Electronics Engineering, PGP College of Engineering & Technology, Namakkal, Tamilnadu, India. From 02.01.2006 to 22/07/2010.
- Senior Lecturer, Department of Electrical and Electronics Engineering, SCAD College of Engineering & Technology, Cheranmahadevi, Tirunelveli Dt, Tamilnadu, India from 2000 to 2005
- Junior Engineer, Packaging Division, Carrier air conditioning & refrigeration ltd, Kurla(W), Mumbai from 02.01.1999 to 31.06.2000.
- Electrical Supervisor, SWADHI ELECTRICAL, Madurai from 02.05.1998 to 20.11.1998.

### **COURSES TAUGHT:**

- Power Electronics
- Solid state drives
- Advanced Power Semiconductor Devices
- Power Quality
- Power Electronics for Renewable Energy system
- Electrical Energy Generation, Utilization, and conservation.
- Power system Analysis.
- Control Systems
- Electrical Machines-I.
- Electrical Machines-II.
- Professional Ethics and Human values.
- Transmission and Distribution.
- Circuit Theory
- Measurements and Instrumentation.

- Design of Electrical Apparatus.
- Digital logic circuits.
- Principles of Management.
- Wind Energy Conversion systems
- Energy and Society
- Modern Optimization Techniques in Electrical Engineering
- Hybrid Electric Vehicles
- Introduction to Electric Vehicles

## PROGRAMS ORGANIZED

- Organizing Chair for Third International conference on Advances in Electrical and Computer Technologies 2021 (ICAECT-2021) during 01-02, October 2021 with Springer as publishing Partner. All the papers will be published in the Lecture Notes in Electrical Engineering (LNEE) series by the Springer Publishing House or in the any one Scopus indexed journals. ([www.icact.co.in](http://www.icact.co.in))
- Organizing Chair for Second International conference on Material science and manufacturing technology 2020 (ICMSMT-2020) during 09-10, April 2020. Proceedings will be published by Institute of Physics, UK, indexed in SCOPUS, Web of science. (<http://icmsmt.com/>)
- Organizing Chair for Second International conference on Advances in Electrical and Computer Technologies 2019 (ICAECT-2019) during 24-25, April 2020 with Springer as publishing Partner. All the papers will be published in the Lecture Notes in Electrical Engineering (LNEE) series by the Springer Publishing House or in the any one Scopus indexed journals. ([www.icact.co.in](http://www.icact.co.in))
- Organizing Chair for First International conference on Advances in Electrical and Computer Technologies 2019 (ICAECT-2019) during 26-27, April 2019 with Springer as publishing Partner. All the papers were published in the Lecture Notes in Electrical Engineering (LNEE) series by the Springer Publishing House. ([www.icact.co.in](http://www.icact.co.in))
- Organizing Chair for IEEE sponsored 2013 International Conference on computer communication and Informatics during 4-6, January 2013. All the 152 papers presented were indexed in the IEEE xplore.
- Technical Programme committee Chair for “IEEE sponsored 2012 International Conference on computer communication and Informatics” during 9-11, January 2012. All the presented papers were indexed in the IEEE xplore.
- Publication Chair & Information contact for “IEEE sponsored 2014 International Conference on computer communication and Informatics” during January 2014. All the presented papers were indexed in the IEEE xplore.
- Organized the course on “Instructional design and delivery” conducted by National Institute of Technical Teachers Training and Research (NITTR), Chennai, Ministry of Human Resource Development, Government of India, at PGP College of Engineering & Tech., Namakkal from 10/7/2006 to 15/7/2006.
- Organized the DST funded FDP on “Soft computing Techniques” at PGP College of Engineering & Tech., Namakkal from 12/7/2007 to 14/7/2007
- Organized the National Level Technical Symposium “TECHBASH” -in the Dept of EEE at Sri Shakthi Institute of Engineering and Technology every year in the month of September in 2010.
- Organized various on campus placement drives with HCL, CSS Corp, HIA (Hosur Industries Association), HOSTIA (Hosur small and tiny industries association), etc from 2014 to 2016 for final year students every year.

## RECENT 5 YEARS JOURNAL AND CONFERENCE PUBLICATIONS:

- Published the paper “AN OPTIMAL POWER FLOW ON GRID CONNECTED POWER SYSTEM USING FACTS DEVICES” in Journal of Xi'an University of Architecture & Technology. ISSN No: 1006-7930, p.no: 3795-3800, Volume XII, Issue III, 2020.
- Published the paper “OPERATIONS OF DFIG UNDER UNBALANCED AND DISTORTED SYSTEM” in Journal of Electrical Engineering. (Anna University List of journals-2019) p.no: 180-196, edition-3, Volume 19/2019.
- Published the paper “A Novel PV/T solar collector system with Hybrid Energy Storage Units and solar heaters” in International Journal of Innovative and Exploring Engineering Technology, p.no 3027-3030, ISSN: 2278-3075, Volume-8 Issue-7, May 2019. Elsevier and Scopus Indexed Journal.
- Published the paper “Advance Control Scheme for Correction of Power Factor and Voltage Stability by Using Electric Spring”, International Journal of Innovative and Exploring Engineering Technology, p.no 337-342, ISSN: 2278-3075, Volume-8 Issue- 4, February 2019.Scopus Indexed Journal.
- Published the paper “Modern control scheme for Z-source inverter-based PV power generation systems”, International Journal of Engineering & Technology, 7(1.3) (2018) 166-170. Elsevier and Scopus Indexed Journal.
- Published the paper “Recursive optimization of Ant colony assisted perturb and observe for a photo voltaic resonant boost converter”, International Journal of Engineering & Technology, 7(1.3) (2018) 150-156. Elsevier and Scopus Indexed Journal.
- Published the paper “Cascaded Z-Source Inverter (CZI) based Voltage Compensation for DFIG Wind Farm under Unbalance Grid Voltage Condition” in International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 2, December 2016, p.no 980-998. (Anna University Annexure-I in 2016)
- Published the Paper “Design of battery assisted quasi Z source inverter using space vector modulation in hybrid power system” in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special issue 6, May 2015, ISSN (online)-2319-8753
- Published the Paper “HVDC transmission system with AC side contribution blocking capability during DC side faults using BBBI improving resonance stability” in International Journal of Innovative Research in Science, Engineering and Technology, Volume 4, Special issue 6, May 2015, ISSN (online)-2319-8753
- Published the Paper “Design and implementation of microcontroller-based motor controller with temperature sensor” in International journal for research in applied science & engineering technology, volume 4, issue VII, July 2016, ISSN 2321-9653
- Published the Paper “Improved capacitor voltage control of Z-source inverter-based PV power conversion system” in the International IEEE Conference-International conference on Machine learning and computing-2015 held at Singapore in 2015.

## PROFESSIONAL SOCIETY MEMBERSHIPS:

Member in IEEE- No:91160938 from 2011

Member in IRED (Institute of Research Engineers and Doctors) from 2019

AM101000584535

Member in ISTE

## Social Media links:

Linked in: <https://www.linkedin.com/in/prof-s-palanikumar-2b2bb637>

Blog & site: <https://ametprofpalanikumar.wordpress.com/>

YouTube channel: [dept of eee, amet university](#)