

## Dr.P.THAMIZHAZHAGAN

*Assistant Professor, Department of Electrical and Electronics Engineering*

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**Address** : **Dr.P.THAMIZHAZHAGAN.,B.E.,M.E.,Ph.D**

*Assistant Professor, Department of EEE,  
University College of Engineering, Panruti,  
Panruti, Cuddalore District,  
Tamilnadu – 607106*

**Mobile** : +91-9940112330

**Email** : *thamizh@ucep.edu.in*



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### **Present Position :**

**Assistant Professor**, Department of Electrical and Electronics Engineering, University College of Engineering, Panruti from August 2009.

### **Present Additional Responsibility:**

- ❖ **Coordinator** -AICTE Approval Process from 2018-19.
- ❖ **Electrical Maintenance Coordinator** from April 2013.
- ❖ **Sports Coordinator** from September 2012.
- ❖ **National Sports Organization (NSO) Coordinator** from May 2019.
- ❖ **Member- Counselling Centre** from July 2014.

### **Previous Additional Responsibility:**

- ❖ **Head of the Department** In charge, Department of Electrical and Electronics Engineering from October 2015 to April 2019
- ❖ **Academic Coordinator** from November 2014 to July 2019
- ❖ **Coordinator** – ECE from August 2020 to July 2021.
- ❖ **Member** - Anti-Ragging Committee from October 2015 to April 2019
- ❖ **Programme Officer (Red Ribbon Club)** from August 2009 to 2012.
- ❖ **Exam Cell Coordinator** from September 2012 to June 2013.

### **Other Employment:**

- ❖ **Lecturer**, Electrical and Electronics Engineering in Tagore Engineering College, Chennai from December 2005 to August 2009.

❖ **Lecturer**, Electrical and Electronics Engineering in Sudarshan Engineering College, Pudukkottai from June 2005 to December 2005.

### **Degree:**

❖ **Doctor of Philosophy** under the faculty of **Electrical Engineering** from Anna University, 2020

**Title:** *Field oriented operation of Direct Torque Control in Permanent Magnet Synchronous Motor using Flexible Adaptive Control Techniques.*

❖ **Master of Engineering** in **Power Electronics and Drives** from Alagappa Chettiar Government College of Engineering and Technology, Karaikudi, Anna University, 2005.

❖ **Bachelor of Engineering** in **Electrical and Electronics Engineering** from Government College of Technology, Coimbatore, Bharathiyar University, 2003.

### **Area of Specialisation:**

- ❖ Soft computing
- ❖ Power Electronics Drives and Control
- ❖ Renewable Energy Sources

### **Membership in Professional Organisation:**

❖ **Life Member** - Solar Energy Society of India (**SESI**)

### **Research Guidance:**

- ❖ Number of ME Projects Completed: 2Nos
- ❖ Number of BE Project Completed: 20 Nos

### **Papers Published in Journals:**

- ❖ Research Papers Published in International Journals : 9
- ❖ Research Papers Published in National Journals: 1

#### **a. International Journals:**

1. P.Thamizhazhagan, P. Sivakarthish, J.Balaji, "Photo catalytic Reduction Of Co<sub>2</sub> Into Solar Fuels Using M-BTC Metal Organic Frameworks For Environmental Protection And Energy Applications" *Digest Journal of Nanomaterials and Biostructures*, Volume 16, Number 4, October - December 2021, ISSN No : 1842-3582"

2. P. Thamizhazhagan, M. Sujatha, S. Umadevi, K. Priyadarshini, Velmurugan Subbiah Parvathy, Irina V. Pustokhina and Denis A. Pustokhin, "AI Based Traffic Flow Prediction Model for Connected and Autonomous Electric Vehicles", "Computers, Materials & Continua, Tech Science Press, DOI:10.32604/cmc.2022.020197, 2022, vol.70, no.2, ISSN No : 1546-2218"
3. P.Thamizhazhagan, Dr.S.Sutha, "Adaptive vector control reference strategy based speed and torque control of Permanent Magnet Synchronous Motor", *Microprocessors and Microsystems*, Volume 74, April 2020, 103007, Elsevier <https://doi.org/10.1016/j.micpro.2020.103007>.
4. P.Thamizhazhagan, "A Hybrid Technique for Performance Improvement in AC-DC Converter System", *Journal of Applied Science and Computations*, DOI: 16.10089, Vol. VI, Issue 3, March 2019.
5. P.Thamizhazhagan, Dr.S.Sutha, "Investigations on Photovoltaic Module Sustained Control of AC Drives Utilizing MATLAB/Simulink", *Journal of Electrical Engineering*, ISSN 1582-4594 Volume 19 / 2019- Edition: 1, Page: 132-135.
6. P.Thamizhazhagan, Dr.S.Sutha, "Performance Analysis Of Direct Torque Controlled PMSM Drives Using Fuzzy Logic" *Journal of Electrical Engineering*, ISSN 1582-4594 Volume 17 / 2017 - Edition: 1, Page: 259-264.
7. P.Thamizhazhagan, Dr.S.Sutha "A Fuzzy Based approach For Minimization Of Torque And Flux Ripples In DTC based PMSM Drives" *International Journal of Advanced Engineering Technology* E-ISSN 0976-3945 Vol. VII/Issue II/April-June,2016/707-711
8. P.Thamizhazhagan, Dr.S.Sutha, "Simulation Of Direct Torque Control Of Permanent Magnet Synchronous Machine Using Space Vector Modulation" *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.51, Page 387-393 (2015)
9. P.Thamizhazhagan, Dr.S.Sutha, " Investigation of various converter approaches for Inverter fed PMSM drive" *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.61, Page 435-439 (2015).

**b. National Journals:**

1. P.Thamizhazhagan, Dr.S.Sutha, "Analysis of PWM Techniques for Power Quality Improvement in PMSM Drives", *Indian Journal of Science and Technology*, Vol 8(24), DOI: 10.17485/ijst/2015/v8i24/IPL0852, September 2015.

## **Papers Presented in Conferences:**

❖ Research Papers Presented in International Conference : 6

❖ Research Papers Presented in National Conference : 5

### **a. International Conferences:**

1. 2019, “A Hybrid Technique for Performance Improvement in AC-DC Converter System”, in the International Conference on Recent Trends in Science, Engineering & Technology (ICRTSET’19), Organised by CK College of Engineering & Technology, Cuddalore on 9<sup>th</sup> March 2019.

2. 2019, “ Analysis of Design and Build Projects using SPSS and MATLAB” in the International Multi-Disciplinary Conference on Arts, Science, Education, Management and Technology, Organised by University of Malaya, Kuala Lumpur, Malaysia held during 7<sup>th</sup> – 8<sup>th</sup> September 2019.

3. 2016, “Photovoltaic Module sustained control of AC Drives” in the International conference on Communication and Control Engineering, organized by University College of Engineering, Villupuram during 29-12-2016 to 30-12-2016.

4. 2015, “ Simulation of Direct Torque Control of Permanent Magnet Synchronous Machine using Space vector Modulation” in the International Congress of Advances in Engineering, Science and Management (ICAESM 2015, organized by EGS Pillay Engineering College, Nagapattinam during 08-05-2015 to 09-05-2015.

5. 2015, “ Analysis of PWM Techniques for power Quality Improvement in PMSM Drives” in the International conference on Soft Computing in Applied Science & Engineering (ICSCASE-2015), organized by Noorul Islam centre for Higher Education, Thuckalay during 23-07-2015 to 24-07-2015.

6. 2005, “Lunar Solar Power Generation” in the International conference on Systemics, Cybernetics and Informatics (ICSCI-2005), organized by Pentagonam Research Centre, India at Hyderabad during 06-01-2005 to 09-01-2005.

### **b. National Conferences:**

1. 2016, “ Design and Analysis of UPFC to improve Voltage Compensation capability” in the National level conference on Drastic Innovation in Energy Thrive organized by University college of Engineering, Panruti on 24<sup>th</sup> March 2016

2. 2012, “ Reliability Analysis in Electrical system considering preventive Maintenance application on Circuit Breaker” in the National level conference on Energy Audit and Power Quality organized by Dr.MGR Educational and Research Institute University during 5-10-2012 to 06-10-2012

3. 2012, “Improving the efficiency and performance of the SVC by Static Discharge Capacitor” in the National level conference on Energy Audit and Power Quality organized by Dr.MGR Educational and Research Institute University during 5-10-2012 to 06-10-2012
4. 2005, “Direct Torque Control of Induction Motor using Space Vector Modulation” in the National level conference on Emerging Technologies in Electrical Systems organized by Noorul Islam College of Engineering, Thucalay during 10-03-2005 to 11-03-2005.
5. 2015, “Investigations of Various Converter Approaches for Inverter Fed PMSM Drive” in the National Conference on Frontiers in Mechanical Automobile Civil and Electrical Sciences (FMACE’15) organized by Tamil NADU College of Engineering, Coimbatore on 15-05-2015.

**Programme Organised:**

1. 2012, Coordinated an Intra Symposium on 01-03-2012 at University College of Engineering, Panruti
2. 2012, Coordinated a National level Technical Symposium “MINNONIX 2012” at University College of Engineering, Panruti on 10-10-2012.
3. 2013, Coordinated a National level Conference on “Emerging Trends in Electrical, Electronics and Control Engineering (NCETEEE’13 at University College of Engineering, Panruti on 13-03-2013.
4. 2013, Coordinated a National level Technical Symposium (ESTORMZ 2k13) at University College of Engineering, Panruti on 04-09-2013.
5. 2013, Coordinated a Workshop on “Neural Networks and its Applications Using MATLAB (WONMAT’13)” at University College of Engineering, Panruti on 09-10-2013.
6. 2015, Organised a Technical Seminar on “Modern Trends and Power System” at University College of Engineering, Panruti on 21-08-2015.
7. 2015, Organised a Technical Seminar on “Engineers Role in Developing the Rural part of India and need of Entrepreneurship” at University College of Engineering, Panruti on 11-09-2015.
8. 2015, Organised a Technical Seminar on “Consultation and Project work in Engineering” at University College of Engineering, Panruti on 13-11-2015.

9. 2015, Coordinated an Anna University Sponsored Faculty Development Training Programme on “EE6201 – Circuit Theory” organized by University College of Engineering, Panruti during 09-12-2015 to 15-12-2015 (7 days).
10. 2016, Organised a National Conference on Drastic Innovation in Energy thrive (DIET’16) at University College of Engineering, Panruti on 10-03-2016.
11. 2016, Organised a National level Workshop on PLC Training and Industrial Automation at University College of Engineering, Panruti on 10-03-2016.
12. 2016, Organised a National Level Technical Symposium GEMOTRANZ 2K16 at University College of Engineering, Panruti on 29-09-2016.
13. 2017, Organised a National level workshop on “Design of Controllers for Inter Disciplinary Applications” at University College of Engineering, Panruti on 26-09-2017.
14. 2017, Organised a National level Technical Symposium at University College of Engineering, Panruti on 27-09-2017.
15. 2018, Coordinated an International Conference on Computing, Communication and Drastic Innovation in Energy THRIVE (IC3DIET’18) at University College of Engineering, Panruti during 29-02-2018 to 1-03-2018.
16. 2018, Organised a workshop on “Testing of Electronics Devices in Hardware” at University College of Engineering, Panruti on 21-03-2018.
17. 2018, Organised a workshop on “Automation of Electrical system Design using Latest Softwares” at University College of Engineering, Panruti on 28-03-2018.
18. 2014, Coordinated a National Conference on “Drastic Innovation in Energy Thrive (DIET’14) at University College of Engineering, Panruti on 14-03-2014.
19. 2015, Coordinated a Two Week Anna University Sponsored Faculty Development Training Programme on “EE 8401 – Electrical Machines II” organized by University College of Engineering, Panruti during 28-11-2018 to 11-12-2018 (12 days).

**Programme Attended:**

1. 2021, MHRD Sponsored Short Term Training Programme through ICT Mode on “ Outcome Based Curriculum – Design and Implementation” organized by National Institute of Technical Teachers, Training and Research (NITTTR), Kolkata from 2<sup>nd</sup> August to 13<sup>th</sup> August 2021.
2. 2020, MHRD Sponsored National Seminar on “Ancient Indian Education System” organized by NITTTR, Kolkata on 11<sup>th</sup> and 12<sup>th</sup> November 2020.

3. 2020, MHRD (Pandit Madan Mohan Malaviya National Mission on Teachers and Training)- 2 Week Faculty Development Programme on “Managing Online Classes and Creating MOOCS 3.0”organized by Teaching Learning Centre, Ramanujan College, University of Delhi from July 25 –August 10,2020.
4. 2020, Online Webinar on “Road Safety and Pedestrian Safety Awareness” organized by Rajarambapu Institute of Technology, Sangli, M.S. India on 5<sup>th</sup> July 2020.
5. 2020, State level webinar on “Boutique Management” organized by G.S.Tompe Arts, Commerce & Science College, Maharashtra on 4<sup>th</sup> July 2020.
6. 2020, Webinar on “Alage for Food, Energy and Sustainable Environmental Solutions” organized by Poornima Institute of Engineering and Technology, Jaipur on 4<sup>th</sup> July 2020.
7. 2020, MHRD (IIC) five day Faculty Development Programme on “IPRs For Professional Innovators” organized by Arupadai Veedu Institute of Technology from 16<sup>th</sup> June to 20<sup>th</sup> June 2020.
8. 2020, Ministry of AYUSH, Govt of India partnered World’s Biggest Virtual Event of “International Yoga Day 2020” organized by AISSMS Institute of Information Technology, Pune on 21<sup>st</sup> June 2020.
9. 2020, NPTEL SWAYAM 8 Weeks online Course on “Roadmap for Patent Creation” funded by Ministry of HRD, Govt of India , Jan-March 2020.
10. 2020, MHRD (IIC) Faculty Development Programme on “IPRs For Professional Innovators” – Session II – Overview, Importance of IPR& Procedure for filing Patent organized by Arupadai Veedu Institute of Technology on 17-06-2020.
11. 2020, MHRD (IIC) Faculty Development Programme on “IPRs For Professional Innovators” – Session I – Design Thinking and Innovations organized by Arupadai Veedu Institute of Technology on 16-06-2020.
12. 2020, National Webinar on “Give Wings to your Students: Be a Mentor, Be a Role Model!” organized by Sou.Venutai Chavan PolyTechnic, Pune on 13<sup>th</sup> June 2020.
13. 2020, MHRD Sponsored Short Term Training Programme through ICT Mode on “Evaluating Students Performance” organized by National Institute of Technical Teachers Training & Research, Kolkata from 08-06-2020 to 12-06-2020. (1 Weeks).
14. 2020, MHRD Sponsored two week online workshop on “Comprehensive e-Learning to e-Training guide for Administrative Work” organized by Ramanujan College, University of Delhi from 25<sup>th</sup> May to 5<sup>th</sup> June 2020.

15. 2020, Online National Level faculty Development on “Radiation & Environmental Radioactivity” organized by CSI College of Engineering, Ketti during 3<sup>rd</sup> June – 5<sup>th</sup> June 2020.
16. 2020, ISTE & Indian Servers associated 3 day Online Faculty Development Program on “Cyber Security” organized by Anurag University from 3<sup>rd</sup> June – 5<sup>th</sup> June 2020
17. 2020, Online Webinar on “Innovation at Speed with Hybrid Cloud”, Organised by PSNA College of Engineering and Technology, Dindigul on 16-05-2020.
18. 2020, webinar on “How to write a Research Paper?” organized by Erode Sengunthar Engineering College, Perundurai, Erode on 15<sup>th</sup> May 2020.
19. 2020, Online Webinar on “Entrepreneurship Opportunities after COVID 19”, organized by PSNA College of Engineering and Technology, Dindigul on 13-05-2020.
20. 2020, Webinar on “Create your own secured smart home in an open source way” organized by PSNA College of Engineering and Technology, Dindigul on 12-05-2020.
21. 2020, National Webinar on “Innovation and Entrepreneurship Ecosystem in Educational Institutes” organised by SIES College of Arts, Science and Commerce, SION (west), Mumbai-400022 on 10<sup>th</sup> May 2020.
22. 2020, ISTE RIT Chapter Online one Week Faculty Development Training Program on “Outcome based Education & NBA Accreditation Process” organized by Rajarambapu Institute of Technology, Rajaramnagar from 4<sup>th</sup> May to 08<sup>th</sup> May 2020
23. 2020, AICTE Sponsored Workshop on “Stakeholders Workshop on Approval Process 2020 – 2021” at JNTUA College of Engineering, Anantapur, Andhra Pradesh on 13-02-2020.
24. 2019, MHRD Sponsored Short Term Training Programme on “Leadership & Management for Teachers” organized by National Institute of Technical Teachers Training & Research, Kolkata during 10-06-2019 to 21-06-2019. (2 Weeks).
25. 2018, AICTE-QIP Sponsored Two Week FDP on “Application of Finite Element Analysis” Organized by Alagappa Chettiar Government College of Engineering and Technology, Karaikudi during 12-02-2018 to 25-02-2018. (14 Days Days).
26. 2017, AICTE Sponsored Two Week FDP on “Power Converters, Control and Grid Integration of Renewable Energy Sources” Organized by SSN College of Engineering, Kalavakkam during 15-11-2017 to 29-11-2017. (14 Days Days).



27. 2015, ISTE sponsored Short Term Training Programme on "MATLAB APPLICATIONS IN SCIENCE AND ENGINEERING (MASE'15) ", organized by Annamalai University during 08-06-2015 to 12-06-2015. (5 Days).
28. 2014, MHRD sponsored Short Term Course on "Special Machines and Advance Electrical motor Control", organized by National Institute of Technical Teachers Training & Research, Chennai during 18-08-2014 to 22-08-2014. (5 Days).
29. 2014, Anna University Sponsored Training Programme on "Cadence ORCAD Simulation and PCB Design Software" organized by University college of Engineering, Villupuram during 12-08-2014 to 14-08-2014 (3 Days).
30. 2013, MHRD sponsored Short Term Course on "Simulation and Graphical System design using MATLAB and LabVIEW", organized by National Institute of Technical Teachers Training & Research, Chennai during 09-12-2013 to 20-12-2013. (12 Days).
31. 2013, MHRD sponsored Short Term Course on "LabVIEW Programming", organized by National Institute of Technical Teachers Training & Research, Chennai during 23-09-2013 to 27-09-2013. (5 Days).
32. 2013, UGC Sponsored Short Term Course on " Research Methodology, Techniques of writing Research Articles for SCI Journals and Ph.D Thesis Preparation" organized by Anna University, Chennai during 08-03-2013 to 09-03-2013 (2 Days).
33. 2013, MHRD sponsored Short Term Course on "Guidance and Counselling", organized by National Institute of Technical Teachers Training & Research, Chennai during 18-02-2013 to 22-02-2013. (5 Days).
34. 2013, CFD Anna University Sponsored Workshop on "Teaching Skills and Smart Class Room Tools" organized by CFD, Anna University Chennai on 07-01-2013 (1 day).
35. 2012, one week workshop on "Computational Intelligent Techniques for Engineering Applications (CITEA)" Organized by the Dept of EEE, University College of Engineering, Panruti during 05-12-2012 to 11-12-2012. (7 Days).
36. 2012, One day Workshop on "Soft Computing Techniques & E-Journal preparatory Process" Organized by the Department of EEE, Dr.Pauls Engineering College, Villupuram on 17-10-2012 (1 Day).
37. 2009, MHRD sponsored Short Term Course on "Instructional Design and Delivery", organized by National Institute of Technical Teachers Training &

*Research in Tagore Engineering College, Chennai during 27-04-2009 to 02-05-2009. (6 Days).*

**Invited Lectures/Resource Person/Technical Talk:**

- 1. 2021, Jury member for MAS E-Tech Symposium organised by IEEE Madras Section Student Activities Committee & Student Coordination Team on 05-07-2021.*
- 2. 2021, Resource Person and Delivered a lecture on “Braking of Electrical Motors” in the Anna University Sponsored FDTP on “Electrical Drives and Control” Organised by University College of Engineering, Ariyalur on 20-05-2021.*
- 3. 2015, Resource Person and delivered a lecture on 21-12-2015 in the Anna University Sponsored FDTP on “Design of Electrical Machines” organized by University college of Engineering, Dindigul during 16-12-2015 to 22-12-2015.*
- 4. 2014, Resource person and delivered a Guest Lecture on “MATLAB in Engineering Application” at Murugappa Polytechnic College, Chennai on 29-09-2014.*
- 5. 2014, Resource person and delivered a Lecture on “ Modelling of PV Panel using SIMULINK” at the National Institute of Technical Teachers' Training and Research (NITTTR), Chennai on 31-10-2014.*
- 6. 2014, Resource Person and delivered a lecture in the Anna University Sponsored FDTP on “Design of Electrical Machines” organized by C.K.College of Engineering and Technology, Cuddalore on 09-12-2014.*
- 7. 2017, Resource Person and delivered a lecture on Electrical Engineering – Career, Scope and Growth Prospects Idhaya Engineering college for women, Chinnasalem on 29-08-2017.*
- 8. 2018, Resource person and Jury in the National Technical Symposium E2C 2K18 organised by A.K.T.Memorial college of Engineering and Technology, Kallakuruchi on 22-03-2018.*
- 9. 2018, Resource person and Jury in the National Technical Symposium EUNOIA 2K18 organised by Department of Computer Science and Engineering, University College of Engineering, Panruti on 27<sup>th</sup> September 2018.*

**Experience Abroad:**

Visited University of Malaya, Kuala Lumpur, Malaysia from 7<sup>th</sup> September to 8<sup>th</sup> September 2019.**Purpose of Visit:** International Multi-Disciplinary Conference on Arts, Science, Education, Management and Technology.

## **Consultancy Activities:**

- ❖ **Co-Consultant** –CTDT Proceedings No. P-2021C4315/CTDT Dated.27-02-2021. Rs. 14,160/-
- ❖ **Co-Consultant** –CTDT Proceedings No. P-2021C4155/CTDT Dated.18-01-2021. Rs. 2,47,800/-
- ❖ **Co-Consultant** –CTDT Proceedings No. P-2021C4136/CTDT Dated.06-01-2021. Rs. 2,19,480/-

## **Address for Communication:**



**Dr.P.Thamizhazhagan B.E., M.E., Ph.D.,**

Assistant Professor

Department of Electrical and Electronics Engineering,  
University College of Engineering, Panruti  
Panruti, Tamilnadu – 607 106  
India.

Mobile : +91-9940112330

Email : [thamizh@ucep.edu.in](mailto:thamizh@ucep.edu.in)



<http://ucep.edu.in/eee/drpthamizh.pdf>

<https://scholar.google.com/citations?hl=en&user=yR7bLcIAAAAJ>

<https://orcid.org/0000-0001-7498-0791>