



# SRM Valliammai Engineering College

(An Autonomous Institution)

SRM Nagar, Kattankulathur-603203, Chengalpattu District, Tamil Nadu

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## Department of Electrical and Electronics Engineering

### Personal Details

Name :	Dr.S. Malathi		
Designation :	Assistant Professor (Sel.G)		
Educational Qualification :	M.E., Ph.D.		
Experience:	19 Years		
Area of Specialization :	Power Electronics & Drives		
Date of Joining :	27.06.2017		
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### Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	Ph.D.	EEE	College of Engineering, Anna University, Chennai.	2017
2	M.E.,	Power Electronics & Drives	College of Engineering, Anna University, Chennai.	2007
3	B.E.,	ICE	Arulmigu Meenakshi Amman College of Engineering, University of Madras.	2000

### Professional Society Memberships

1. Indian Society of Technical Education (ISTE) : Life Member
2. Indian Science Congress Association (ISCA) : Annual Member
3. International Association of Engineers (IAENG): Life Member

### Publication Details

01-Jul-2020 to 30-Jun-2021

#### Journals:

1. B.Arnika Choudry, R.P.Kavishobiya E.Kapilesh, B.Vasanth, **Malathi.S**, "Food Preservation & Maintenance Using Novel Electric Field Technology" International Journal of Electrical Engineering and Technology (IJEET), Vol. 12 March 2021.
2. Nithiya Sree C, Nivetha M, Dhivyabharathi K, Shasindar S, **Malathi.S**, "Modelling Of Lithium-Ion Battery Management And Monitoring System Enhancing E-Vehicle Performance" International Journal of Electrical Engineering and Technology (IJEET), Vol. 12 March 2021.

#### Programmes Conducted:

1. **AICTE - ATAL - Faculty Development Programme**, on "Global Warming and Impacts of Power Electronics Towards Green Technology", 24-28 May 2021.
2. **International Seminar** on Electrical safety in substation & power transmission, Energy & Solar Projects in Middle East on 16.10.2020.

### Speech Delivered:

1. Recent Advancements in High Voltage Engineering-RHVE 2K21 (Phase –III) on “Optimization In Transmission Tower Structural Design”, Mar’ 2021 at **AICTE -ISTE** sponsored six days Induction/ Refresher Programme – SRMVEC.
2. Recent Advancements in High Voltage Engineering-RHVE 2K21 (Phase –II) on “Optimization Design of Energy Harvesting for Overhead HV lines”, Feb’ 2021 at **AICTE -ISTE** sponsored six days Induction/ Refresher Programme – SRMVEC.
3. Recent Advancements in High Voltage Engineering-RHVE 2K21 (Phase –I) on “Enhancement of Hybrid Bipolar HVDC Systems”, Nov’ 2020 at **AICTE -ISTE** sponsored six days Induction/ Refresher Programme – SRMVEC.
4. **FDP** on “Modern Power Converters” Nov 2020 at SRMVEC.
5. Modern Optimization tools used in Engineering Field –IV, “Firefly Algorithm” Nov’ 2020 at **AICTE sponsored** Virtual short term Training Programme – SRMVEC.

### Programmes Attended:

1. **AICTE - ATAL - Faculty Development Programme**, on “Electric Vehicles” at KPR Institute of Engineering and Technology, 08.02.2021 - 12.02.2021.
2. **AICTE - ATAL - Faculty Development Programme**, on “Energy Engineering” at National Institute of Technology, Thiruchirappali, 28.12.2020 - 01.01.2021.
3. **Certification course on NITTT-Module 1, 2021.**
4. **Certification course on NITTT-Module 2, 2021.**
5. **AICTE - ATAL - Faculty Development Programme**, on “Machine Learning” at R.M.K College of Engineering and Technology , 07.12.2020 - 11.12.2020.
6. **FDP** on “Advancements in Mosfet Technologies” at SRMVEC, Sep’ 2020.
7. Short course on “Learn to design your own solar home system” organized by **Energy Swaraj**, Jul’ 2020.
8. **FDP** on “Integration of green energy with smart power systems” at Sathyabama Insititute of Science and Technology, 22-27 June 2020.

01-Jul-2019 to 30-Jun-2020

### Journals:

1. **Dr.S.Malathi**, Dr.K.Elango, “Implementation of dead beat controller using particle swarm optimization for software defined network”, Computer Communications, Elsevier, Pg. 235-243, Vol.155, April 1, 2020, ISSN: 0140-3664.
2. Tejeswini.S, Vedharathna.K, Sharil Ahamed.B, Tharunya.G, **Dr.S.Malathi**, “Utilization of Wind Energy using novel power electronics converter for stand-alone system”, International Journal of Scientific Research and Engineering Development (IJSRED), Mar-Apr 2020, Vol.3, Issue 2, Pg. 239-

243.

3. Pavithra.R, Hariharan.K, Nithish kumar.S, Arun kumar.A, **Dr.S.Malathi**, "Implementation of Agri Robot to Control Crop Disease using Image Processing", International Journal of Innovative Technology and Exploring Engineering (IJITEE), May 2020, Volume-9 Issue-7, ISSN: 2278-3075.

#### **Conferences:**

1. **Dr.S.Malathi** and Ms.R.V.Preetha, 'Microcontroller based Interleaved DC-DC Boost Converter Fed Current Source Inverter for Foot-Step Power Generation', National Conference on Computational Intelligence in Electrical and Electronics Engineering organized by Department of Electrical and Electronics Engineering, Sathyabama Institute of Science and Technology during 18th to 19th May 2020.
2. **Dr.S.Malathi** and Ms.R.V.Preetha, "A Novel PV Energy Harvesting Using Transformerless PV module by SEPIC Converter", International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering, Aug 2019.

#### **Programmes Conducted:**

1. Staff Development Programme, on "Basic Skills of Computer" Nov' 2019.

#### **Programmes Attended:**

1. Five days FDTP on "Power System Analysis" sponsored by AICTE and Anna University held at College of Engineering, Anna university, Guindy, 27-31 May 2019.
2. One week FDP on "Integration of Green Energy with Smart Power Systems" during 22<sup>nd</sup> to 27<sup>th</sup> June 2020.
3. NPTEL Certification with ELITE on, "Body Language: Key to professional Success, 2019.

01-Jul-2018 to 30-Jun-2019

#### **Journals:**

1. Anushia.R, Deepika.P, Jenila.P, Siva.M & **Malathi.S**, "Enhancement in the Modelling of Braking System with Regenerative Method using Ultra Capacitor for an Eco Vehicle", International Research Journal of Engineering & Technology, Vol.6, No.3, pp.1777-1781, March 2019.
2. Madhumidha.C, Manimalaimurugan.C, Manoj.S, VijayaKumar.V & **Malathi.S**, "Implementation of Modified Transformless Voltage Source Inverters for Domestic Applications", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.8, No.2, pp.317-323, Feb 2019.

#### **Speech Delivered:**

1. Resource Person for the Value added course on "Modeling and Applications of Electrical systems using ETAP and MATLAB software", Feb 2019.

#### **Programmes Attended:**

1. Faculty Development Programme on Value added Education, Feb 2019.

2. NPTEL Certification with ELITE on, “Teaching and Learning in Engineering (TALE), 2019.

**Books:**

1. Book Published on “BE8251-Basic Electrical and Electronics Engineering” – Dr.K.Elango, **Dr.S.Malathi**, Maruthi Publishers, Chennai, ISBN 978-81-90879-50-7, Feb 2019.

01-Jul-2017 to 30-Jun-2018

**Journals:**

1. S.Pradeesh, U.Praveena, R.Ajithkumar, J.Thirumani and **Dr.S.Malathi**, "Design of Interleaved DC-DC Boost Converter FED Current Source Inverter for Piezo Electric Power Generation", IJSRD-International Journal for Scientific Research & Development, Vol.6, No.01, pp.1045-1048, March 2018.

2. SaiPrashanth S, Nagacharan U.N, Harish R, Manjunath M and **Dr.S.Malathi**, "Implementation of Intelligent Adaptive Control for Traffic Signal System", IJSRD-International Journal for Scientific Research & Development, Vol.6, No.01, pp.1550-1553, March 2018.

**Speech Delivered:**

1. FDP on “EE8451 – Linear Integrated Circuits and Applications”, Dec 2018

**Programmes Attended:**

1. **Chief Guest** for the National level Technical Symposium at Annai Mira Institute of Technology, Vellore, 27 Sep’ 2017.

2. Attended **One week DST-SERB National level seminar** on “Integration of green energy with smart grid through IOT” at Sathyabama Institute of Science and Technology, Chennai, 19-23 June 2018.

3. NPTEL Certification with ELITE on, “Effective Engineering Teaching in Practice, 2018.

01-Jul-2016 to 30-Jun-2017

**Journals:**

4. **S.Malathi**, S.Chandramohan, “Design and Implementation of a Novel Hybrid Posicast Based Controller for a Buck-Boost Converter”, Middle-East Journal of Scientific Research 24 (2): 251-258, 2016, ISSN 1990-9233.

01-Jul-2015 to 30-Jun-2016

**Journals:**

1. **S.Malathi**, S.Chandramohan “A new topology of converter fed multilevel inverter for medium to high power applications” Optoelectronics and advanced materials–Rapid communications, Vol.9, No.5-6, May-June 2015, p.816-820. ISSN:Print: 1842-6573.

2. **S.Malathi**, S.Chandramohan “Design and implementation of Single phase Quasi ZSI DC-DC Converters Based on Voltage Doubler Rectifier”, International Journal of Control Theory and Applications, Vol.8 (2015), pp.1539-1552, ISSN: 0974-5572.

3. **S.Malathi**, S.Chandramohan “A Single-phase Thirteen-level Reverse Voltage Multi-level Inverter with Various Modulation Control Techniques”, International Journals of Applied Engineering and Research, Vol.No.16(2015), pp.37048-37054, ISSN 0973-4562.

**Speech Delivered:**

1. FDP on “Power Electronics for Renewable Energy Systems”Nov 2017.

Others

1. “A novel hybrid posicast based control of boost converter” The proceedings of International conference held at Pallavan College of Engineering and Technology, Kanchipuram.

2. “Implementation of Novel Boost Converter for Photo voltaic Application” at NRTIEMC-2011, Pallavan College of Engineering.

3. Published book on “Electron Devices and Circuits”, Maruthi Publishers,2009.

**Other Particulars**

Events attended

1. Attended FDPs on Object Oriented Programming, Communication Engineering at SRMVEC.

2. Attended FDPs on “EE6504–Electrical Machines-II & EE6703–Special Electrical Machines”.

3. Attended FDP on “Discrete Time System and Signal Processing” at Jeppiar Mammallan college of Engineering.

4. Attended workshop on “Embedded system” conducted by the Lab Tech Electronics Pvt. Ltd at Pallavan College of Engineering, Kanchipuram.

5. Attended workshop on “Research Methodology” at College of Engineering, Anna University, Chennai.

6. Attended “MISSION 10X Workshop-ISTE” conducted by WIPRO at Pallavan College of Engineering, Kanchipuram.

7. Attended workshop on “High Impact Teaching Skills–MISSION 10X” conducted by WIPRO at Pallavan College of Engineering, Kanchipuram.

8. Attended National Conference on “Advances in Power electronics” at Arunai Engineering College, Thiruvannamalai.