

Name of the Faculty with Educational Qualification : Dr.S.Dhanalakshmi,M.E.,Ph.D.
Designation and Department : Professor /EEE
Velammal College of Engineering and Technology, Madurai
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Blog Address:

Educational Qualification:

S.NO.	Degree	Year	Subject	Unversty/nsttuton
1.	Ph.D.	2012	Electrical	Kalasalingam Acadaemy of Research and Educaton,Krshnankoil.
2.	M.E	1998	Power System	Regional Engineering College, Trichy (Now NIT-T)
3.	B.E.	1996	EEE	PSG College of Technology, Coimbatore

Experience in Years:

S.No.	Positions held	Name of the Institute	From	To
1.	Associate Professor	Velammal College of Engineering and Technology, Madurai	06.06.2012	Till date
2.	Assistant Professor II	Kalasalingam Acadaemy of Research and Education, Krishnankoil.	02.09.2011	31.05.2012
3.	Senior Research Fellow	n-cardmath center, Kalasalingam Acadaemy of Research and Education,	05.05.2008	01.09.2011
4.	Senior Lecturer	Arulmigu Kalasalingam College of Engineering and Technology,	01.01.2007	04.05.2008
5.	Lecturer	Arulmigu Kalasalingam College of Engineering and Technology,	13.12.2002	31.12.2006

Interested Research Areas: Power Ssystem Operaton and Control, Power system Deregulation, Renewable Energy Sources, Optmization Techniques

Scholarships and Awards received:

S.No	Name of Award	Awarding Agency	Year
1.	Senior Research Fellow	DST	2008-2012
2.	Received Certificate of Reviewing	Computer and Electrical	2017
3.	Received Certificate of Outstanding Contribution in Reviewing	Computer and Electrical Engineering (CAEE- Elsevier)	2018
4.	Received Certificate of Reviewing	Futures (Elsevier)	2018
5.	Life Member	ISTE	-
6.	Life Member	IE(I)	-
7.	Member	IEEE	2008-2018

Funded Research Projects:

Funding Agency: AICTE

Scheme: RPS

Title: Custom Power Devices for power quality enhancement

Sanctioned Amount: 8.75 Lakhs

Year: 2013-2016

Principal Investigator(PI): Dr.N.Karpagam

Co-PI: Dr.S.Dhanalakshmi

Funding Agency: AICTE

Scheme: Conference

Title: International Conference on Power and Energy Systems

Sanctioned Amount: 5.00 Lakhs

Year: 2016

Principal Investigator(PI): Dr.A.Shunmugalatha

Co-PI: Dr.S.Dhanalakshmi

Funding Agency: IE(I)

Scheme: Conference

Title: International Conference on Power and Energy Systems

Sanctioned Amount: 0.20 Lakhs

Year: 2016

Principal Investigator(PI): Dr.A.Shunmugalatha

Co-PI: Dr.S.Dhanalakshmi

Funding Agency: AICTE

Scheme: MODROB

Title: Modernisation of Power Electronics Lab

Sanctioned Amount: 8.00 Lakhs

Year: 2019

Principal Investigator(PI): Dr.A.Shunmugalatha

Co-PI: Dr.S.Dhanalakshmi

Patent rights received:

Publications Details: (will be either in Table (or) Paragraph starting with latest publication)

1. Patent Journal Publication Details: -

2. International Journal Publication Details:

1. **S. Dhanalakshmi**, S. Kannan, K. Mahadevan and S. Baskar, (2011) “Application of Modified NSGA-II Algorithm to Combined Economic and Emission dispatch problem”, International Journal of Electrical Power and Energy Systems, Volume 33, No.4, pp. 992-1002. (Impact factor: 2.073) (ISSN: 0142-0615)
2. **S. Dhanalakshmi**, S. Baskar, S. Kannan and K. Mahadevan, “Generation Scheduling Problem by Intelligent Genetic Algorithm”, Computers & Electrical Engineering, Volume 39, pp. 79-88. (Impact factor: 0.526) (ISSN 0045 7906)
3. **S. Dhanalakshmi**, S. Kannan, S. Baskar and K. Mahadevan, “Intelligent Genetic Algorithm for Generation Scheduling under deregulated environment”, SEMCCO 2011, Part I, LNCS 7076, pp.282-289, 2011. (DOI: 10.1007/978-3-642-27172-4)
4. S. Dhanalakshmi, S. Baskar, S. Kannan and K. Mahadevan, “Multi-objective Generation Scheduling using Modified Non-dominated Sorting Genetic Algorithm-II”, International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2014), held at Institute of Technical Education and Research (ITER), Siksha O Anusandhan University, Bhubaneswar, Odisha, during 18-20th December 2014. (ISBN 978-3-319-20294-5)
5. S.Dhanalakshmi, N.Karpagam and B.Juhi Jahan, “Implementation on DSP Processor based DVR controller For PQ improvement,” International Journal of Applied Engineering Research, Vol.10,N0.20, 2015

6. S.Dhanalakshmi, J.RasmiPhilomina Angeline, “Solving Profit based UC using PSO”, International Journal of Applied Engineering Research, Vol.10, No.39,2015.
7. S.Dhanalakshmi, N.Karpagam and B.Juhi Jahan, “Implementation of Fuzzy Logic Controller based Dynamic Voltage Restorer (DVR) with DFIG in Distribution System for Power Quality Improvement”, VFSTR Journal of STEM, Vol.01, No.01, pp. 36-48, 2015 (ISSN 2455 2062)
8. N.Karpagam,S.Dhanalakshmi,M.Ramyadevi“APPLICATION OF UPQC WITH RENEWABLE ENERGY RESOURCES FOR POWER QUALITY IMPROVEMENT IN DISTRIBUTED GENERATION”, Discovery journal of engineering, ISSN 2320 – 6675 EISSN 2320 –6853© 2016 Discovery Publication 4(11), 135-143). (ISSN 2320 6675)
9. Dr.S.Dhanalakshmi, “DEVELOPMENT OF AUTOMATIC CONTROL SYSTEM FOR EMISSION DETECTION IN VEHICLES USING IoT”, IJES, March 2018.
10. Dr.S.Dhanalakshmi, “DESIGN AND IMPLEMENTATION OF INTEGRATED SMART HOME SYSTEM (ISHS)”, International Research Journal of Engineering and Technology (IRJET), Volume: 06 Issue: 03 | Mar 2019.
11. Dr.S.Dhanalakshmi, “IMPLEMENTATION OF SMART STREET LIGHT, TRAFFIC AND ENVIRONMENT TOWARDS SMART CITY”, International Research Journal of Engineering and Technology (IRJET),Volume: 07 Issue: 05 , May 2020

3. International Conference Presentation Details:

1. **S. Dhanalakshmi**, S. Kannan, K. Mahadevan and S. Baskar, “Multi-objective Dispatch problem using NSGA-II” International Conference on Recent Advancements in Electrical Sciences (ICRAES'10) KSR College of Engineering, Tiruchenoode, 8-9 January, 2010, pp. 314-321.ISBN:978-93-80043-67-8.
2. **S. Dhanalakshmi**, S. Kannan and K. Mahadevan, “Market Modes for Deregulated Environment – A Review” IEEE International Conference on Emerging Trends in Electrical and Computer Technology, (IETECT-2011) held at St. Xavier’s Catholic College of Engineering, Nagercoil, during 23-24 March, 2011, pp. 82-87.
3. K.Alagunayanan, **S.Dhanalakshmi**, and S.Kannan, “Unit commitment problem in regulated and deregulated environment using LR-GA”, International Conference on Emerging Trends in Engineering (ICETE-12) to be held at N.M.A.M Institute of Technology, Nitte -574 110, Karnataka State, INDIA to be held on 15 & 16, May 2012.
4. S.Rajeswari, N.Karpagam and **S.Dhanalakshmi**, “ Analysis of dq0 Based PI Controller for Voltage Sag and Harmonic Mitgation ”, International conference on Power and energy Systems, held at Velammal College of Engineering and Technology, Madurai, on 19-21 December, 2013.
5. S.Rajeswari, N.Karpagam and **S.Dhanalakshmi**, “ Analysis of dq0 Based PI Controller in Voltage Sag and Harmonic Mitgation ”, International conference on Green computing communication and electrical engineering , held at Dr.N.G.P.

College of Engineering and Technology, Coimbatore, on 06-08 March, 2014. (ISBN 978-1-4799-4982-3)

6. P.Pradeep Balaji, **S.Dhanalakshmi**, “A solution to unit commitment problem using LR-GA with evaluation of reliability indices”, IEEE international conference on Advances in engineering and technology, held at E.G.S.Pillay engineering college, Nagapattinam, during 2-3rd May 2014.
7. P.Pradeep Balaji, **S.Dhanalakshmi**, “Evaluation of Reliability Index and Reliability Cost in Modern power System ”, IEEE international conference on Advances in engineering and technology, held at E.G.S.Pillay engineering college, Nagapattinam, during 2-3rd May 2014.
8. Dr.S.Dhanalakshmi, "A comprehensive review on Modeling and Offline control of hybrid electric vehicles”, International Conference held at Velammal College of Engineering and Technology, Madurai during 21-22 December 2017.
9. N.Karpagam,S.Dhanalakshmi, M.Ramyadevi,"IMPROVEMENT OF POWER QUALITY USING dqo BASED UPQC WITH SOLAR ENERGY IN DISTRIBUTED GENERATION", *National conference at Velammal College of Engineering And Technology ,Madurai, Jan 2016.*
10. Dr.S.Dhanalakshmi, “Development of Intelligent Vehicle Control System using IOT”, International conference on “Recent Engineering Technology Management – 2019”, held at Coimbatore Institute of Engineering and Technology, 29-30March 2019.

4. National Conference Presentation Details:

1. M. Prakash, **S. Dhanalakshmi** and S. Kannan, “Consumer Payment Minimization in Deregulated Market” National Conference on Electrical Systems and Renewable Energy, (NESR 2011) held at Anna University of Technology, Tiruchirappalli, on March 18, 2011, pp. 12-16.
2. L.Dhineshbabu, **S.Dhanalakshmi**, S. Kannan, “Application and comparison of Firefly Algorithm and Genetic Algorithm on power system problem”, Third National conference on intelligent computing in communication and automation, NCICCA-2012, organized by Dept. of ICE, Kalasalingam University, on 05th April 2012.
3. T.Anitha, **S.Dhanalakshmi**, “Design and Implementation of Embedded based Temperature measurement and control system”, National conference on Power Electronics and Drives, A.C.College of Engineering and Technology, Karaikudi, March 2008.
4. T.Anitha, **S.Dhanalakshmi**, “Automatic control of Temperature using PID Controller”, National conference on EMCON, Kalasalingam University, March 2008.
5. A.Thamarai Muthumani, **S.Dhanalakshmi**, “Omni-directional remotely controlled video capturing robot” National conference on power electronics and control, Athiyaman College of Engineering, July 2007.
6. Jeya Daisy, **S.Dhanalakshmi**, “Real time multi channel biotelemetry patient monitoring system”, National conference on VLSI and Embedded System, Athiyaman College of Engineering, March 2007.

7. G.Pradhaban, S.Sethujaganathan, V.Suriyavijayan and **S.Dhanalakshmi**, “ Unit commitment by Lagrangian Relaxation and Genetic Algorithm”, National conference on Technological Advancements in Power Systems and Power Electronics Engineering held at Easwari Engineering College, Chennai, March 2013.
8. Pradeep Balaji, **S.Dhanalakshmi**, “Evaluation of Reliability Index: Expected Energy not served”, held at Kamaraj College of Engineering and technology, on 5th March 2014.
9. R.Soundarya, A.Harini, P.Akila and **S.Dhanalakshmi**, “Automatic Control of Irrigation System Using Solar Power and PIC Microcontroller”, held at IE(I) chapter, Madurai during April 2014.
10. Dr.S.Dhanalakshmi, “Development of Automatic Control System for Emission Detection in vehicles using IoT”, held at Sri Subramanya College of Engineering and Technology,Palani on 24.03.2018.

5. Google Scholar report: