

PROFILE

1. **Name** : **G.Ganesan @ Subramanian**
2. **Department** : Electrical & Electronics Engineering
3. **Title** : Prof.
4. **Affiliation of Institute** : E.G.S. Pillay Engineering College,
Nagapattinam – 611002
Tamilnadu
Affiliated to Anna University, Chennai
5. **Residential Address** : 64, French Teacher Street (Extn.,)
Karaikal – 609 602
6. **Contact Nos.** : 9566719011
7. **Email** : ganesan@egspec.org; g.ganeshsubramanian@yahoo.com
8. **Domain of Research** : Power Systems – Restructuring and Deregulation
9. **Gender** : Male
10. **Age & Date of Birth** : 34 Years, 17.07.1984



ACADEMIC CHRONICLE:

Ph.D (Electrical Engineering) – (Thesis Submitted) at Annamalai University, Chidambaram.

Master of Engineering (POWER SYSTEMS) at Annamalai University, Chidambaram with an aggregate of **8.32** CGPA (First class) during the year April 2008

Bachelor of Technology (EEE) at Bharathiyar College of Engineering and Technology, Karaikal. with an Aggregate of **82%** (First class with distn.) during the year April 2006

Higher Secondary at Thanthai Periyar Govt. Hr.Sec.School with an aggregate of **83%** (First class) of during the year April 2002

Secondary School at St. Mary's Higher Secondary School, with an aggregate of **93%** (First class) during the year April 2000

ACADEMIC EXPERIENCE AS ON DATE:

| S.No | Name of the College/ Institution | Designation | Tenure | | Year of Experience |
|------|---|---------------------|-----------|------------|--------------------|
| | | | From | To | |
| 1. | E.G.S. Pillay Engineering College, Nagapattinam | Assistant Professor | June 2012 | Till Date | 7 Years 5 months |
| 2. | National Institute of Technology, Puducherry | Temporary Faculty | Aug' 2011 | April 2012 | 9 Months |
| 3. | Bharathiyar College of Engineering & Technology, Karaikal | Lecturer | Dec' 2008 | July 2011 | 2 Years 7 Months |

RESEARCH & DEVELOPMENT

SANCTIONED FUNDED PROJECTS:

Major projects:

| S.no | Funding Agency | Title | Amount (in Rs.) | Name of the faculty | Date | Status |
|------|---------------------|--|--------------------|---|------------|---|
| 01 | TNSCST-S&T Projects | Design and fabrication of semi-circular blade profile structure in Vertical axis wind turbine for optimal power generation | 3,75,000 | Dr.S.Ramabalan Prof. G.Ganesan @ Subramanian Dr.M.Chinnadurai | 04.11.2019 | Ongoing - Sanctioned: Ref. No: TNSCST/STP-PRG/AR/2018-2019 (November 2019 to November 2021; 2 years) |
| 02 | SIRO | R&D Recognition proposal (Prepared by G.Ganesan) | - | Dr.S.Ramabalan | 07.12.2017 | E.G.S. Pillay group of Institutions recognized by DSIR |

Minor projects:

| S.no | Funding Agency | Title | Amount (in Rs.) | Name of the faculty | Date | Status |
|------|--|---|--------------------|--|----------|--|
| 01 | The Institution of Engineers (India), Kolkata, Under grant-in-aid scheme | Solar Powered Electronic Voting Machine | 10.000 | Prof. G. Ganesan @ Subramanian Dr.M.Chinnadurai | 10.08.18 | Fetches and Completed Rs.10,000/- (Ref. ID: RDUG2019007) |
| 02 | Tamilnadu State Council for Science and Technology (TNSCST) | Implementation of novel spray and weeding robot using mobile in agriculture field | 10,000 | Prof. G. Ganesan @ Subramanian | 02.05.17 | Withdrawn |
| 03 | The Institution of Engineers (India), Kolkata, Under grant-in-aid scheme | Implementation of novel spray and weeding robot using mobile in agriculture field | 40.020 | Prof. G. Ganesan @ Subramanian Dr.V.Mohan | 27.01.17 | Fetches and Completed Rs.40,020/- (Ref. ID: RDUG2017050) |
| 04 | The Institution of Engineers (India) | Solar Powered street sweeping mechanism for clean India | 44,010 | Prof. G. Ganesan @ Subramanian Dr.V.Mohan | 29.02.16 | Fetches and Completed Rs.42,010/- (Ref. ID: RDUG2017003) |
| 05 | The Institution of Engineers (India) | Renewable Energy Based Air Conditioning System For Public Transports In Green Environment | 20,000 | Prof. G. Ganesan @ Subramanian | 18.02.15 | Fetches and Completed Rs.20,000/- (Ref. ID: RDUG2015146) |

SANCTIONED TECHNICAL ACTIVITIES:

| S.no | Funding Agency | Title | Amount (in Rs.) | Name of the faculty | Date | Status |
|------|---|---|--------------------|---|-----------------------------|---------------------------|
| 1 | Tamilnadu State Council for Science and Technology (TNSCST – DIT) | A Value added sea food product | 50,000 | Prof.G.Ganesan @ Subramanian | 04.06.2019 | Sanctioned and Completed |
| 2 | IETE & ISTE | Assessment & implementation of OBE | 10,000 | Dr.S.Ramabalan Prof.G.Ganesan @ Subramanian | 02.02.2019 & 03.02.2019 | Sanctioned and Completed |
| 3 | ISTE | OBE for Engineering Students | 10,000 | Dr.S.Ramabalan Prof.G.Ganesan @ Subramanian | 18.01.2019 & 19.01.2019 | Sanctioned and Completed |
| 4 | Tamilnadu State Council for Science and Technology | Capacity building for Industrial needs to the polytechnic students (Prepared by G.Ganesan) | 1,50,000 | Prof. V. Vijayabalan Prof.N.Bhuvanashankar | 30.01.2019 to 08.02.2019 | Sanctioned and Completed |
| 5 | CSIR | Solar Forecasting and its integrated energy storage | 25,000 | Dr.S.Ramabalan Prof.G.Ganesan @ Subramanian Dr.S.Chockalingam | 25.02.2018 | Sanctioned and Completed |
| 6 | ONGC | Bloom Box – The future of Energy in India | 43,500 | Prof.G.Ganesan @ Subramanian | 03.05.2018 & 04.05.2018 | Sanctioned and Completed |
| 7 | The Institution of Engineers (India), Kolkata | Internet of medical things in health care | 20,000 | Dr.M.Chinnadurai Prof. G.Ganesan @ Subramanian | 14.06.2018 | Sanctioned and Completed |
| 8 | The Institution of Engineers (India), Kolkata | Disaster Management and Mitigation | 20,000 | Dr.Sivakumar Prof. G.Ganesan @ Subramanian | 21.06.2018 | Sanctioned and Completed |
| 9 | The Institution of Engineers (India), Kolkata, Under seminar grant scheme with Tiruchirappalli local centre | One day seminar on “IoT and its applications using Raspberry and PI” | 10,000 | Prof. G. Ganesan @ Subramanian | 14.12.2017 | Sanctioned and Completed |
| 10 | The Institution of Engineers (India), Kolkata, Under seminar grant scheme with Tiruchirappalli local centre | One day seminar on “Highlights of Energy Audit in Electrical and Thermal Utilities” (HEALTH) | 10,000 | Prof. G. Ganesan @ Subramanian | 14.03.2018 | Sanctioned and Completed |
| 11 | Tamilnadu State Council for Science and Technology (TNSCST – PIC) | Intellectual property rights | 40,000 | G.Ganesan @ Subramanian S.Palanimurugan | 04.01.2018 – 05.01.2018 | Sanctioned and Completed. |
| 12 | AICTE - ISTE | Refresher / Induction program (Prepared by G.Ganesan) | 3,00,000 | Dr.S.Ramabalan | 29.11.2017 | Sanctioned and Completed. |
| 13 | The Institution of Engineers (India), Kolkata, Under seminar | Two days Lecture workshop on “CHallenges and Opportunities in Power | 20,000 | Prof. G. Ganesan @ Subramanian Dr.V.Mohan | 21.04.2017 | Sanctioned and |

| | | | | | |
|--------------|---------------------------------|--|-------------------------|--|------------|
| grant scheme | Electronics Research (CHOPPER)” | | Dr.T.Suresh Padmanabhan | | Completed. |
|--------------|---------------------------------|--|-------------------------|--|------------|

APPLIED RESEARCH FUNDED PROJECTS:

| S.no | Funding Agency | Title | Amount (in Rs.) | Name of the faculty | Date | Status |
|------|---------------------|--|-----------------|--|------------|--|
| 01 | AICTE | MARGADHARSHAN (Prepared by G.Ganesan) | 50,00,000 | Dr.S.Ramabalan | 01.11.2017 | Attempted and Shortlisted only for presentation at AICTE, NewDelhi on 03.05.2018 |
| 02 | DST-FIST | FIST- project (Level-0) Centre of Excellence in Robotics for Industry 4.0 (CERI - 4.0) | 88,25,000 | Dr.S.Ramabalan Dr.M.Chinnadurai Prof. G.Ganesan @ Subramanian | 14.05.2019 | Attended presentation on September 2019 and waiting for result |
| 03 | DST-SEED (TITE) | Women’s technopark for socio-economic up-liftment of rural sc/st women in Nagapattinam region through income generation activities | 71,10,000 | Dr.S.Ramabalan Dr.M.Chinnadurai Prof. G.Ganesan @ Subramanian Mrs.K.Nagalakshmi | 16.04.2018 | Attempted and Shortlisted only for presentation at Nagaland State Council, Dimapur on 26.09.2018 |
| 04 | TNSCST & DST-SEED | Rural technology park for schedule caste community by facilitating economy development through revenue generation bustle | 28,10,000 | Dr.S.Ramabalan Dr.M.Chinnadurai Prof. G.Ganesan @ Subramanian Mrs.K.Nagalakshmi | 02.01.2018 | Attempted |
| 05 | TNSCST-S&T Projects | Design and development of a solar powered autonomous robot for solar panel cleaning | 4,60,000 | Dr.S.Ramabalan Prof. G.Ganesan @ Subramanian Dr.M.Chinnadurai | 11.02.2019 | Attempted |
| 06 | ONGC | Start up grant for solar project | 10,00,000 | Dr.M.K.Mishra Dr.M.Chinnadurai Prof. G.Ganesan @ Subramanian | 01.12.2017 | Attempted |
| 07 | DST – FIST | Development of Research labs (Prepared) | 38,31,000 | Dr.S.Ramabalan | 22.06.2017 | Attempted |
| 08 | AICTE-RPS | Performance Enhancement Of AC-DC-AC Converter Fed Drives Using Intelligent Control | 14,86,400 | Dr.V.Mohan | 10.01.2017 | Attempted |

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|----|---|---|----------|--|------------|-----------|
| | | Strategies (Prepared) | | | | |
| 09 | SERC-Fast Track Young Scientist | Design Of Load Frequency Controller For Smart Grid | 8,18,650 | Prof. G. Ganesan @ Subramanian | 16-03-2015 | Attempted |
| 10 | DST/TSD | Efficient Sea Vehicle With High Preserving Capacity Using Hybrid Renewable System | 6,05,000 | Prof. R. Anandraj(PI) Prof. G. Ganesan @ Subramanian | 16-03-2015 | Attempted |
| 11 | TNSCST-POPULARIZATION OF SCIENCE ACTIVITIES | Two Days Awareness Program On Automatic Watering System Depends On Soil Condition With Solar Power System | 2,24,800 | R.ANANDARAJ Prof. G. Ganesan @ Subramanian | 18.08.2014 | Attempted |
| 12 | TNSCST-STP | Some Advanced Tools For Fishing | 4,92,000 | Prof. G. Ganesan @ Subramanian | 14-11-2014 | Attempted |
| 13 | TNSCST-STP | Efficient Sea Vehicle With High Preservation Capacity Using Hybrid Renewable System | 4,04,000 | Prof. R. Anandaraj Prof. G. Ganesan @ Subramanian | 27-11-2014 | Attempted |

PATENT REGISTERED:

| S.No. | CBR. No. | Application Number | Title |
|-------|----------------------|---------------------|-------------------------------------|
| 1. | CBR No. 38473 | 201741044998 | Solar Lantern Powered Chulha |

RESEARCH PUBLICATIONS:

- a) Journal (i) International: **17**
b) Conferences (i) International: **20** (ii) National: **06**

INTERNATIONAL JOURNAL:

1. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, "Pseudo-Derivative Feedback controller for Automatic generation control in a deregulated power system with Hydrogen-Energy storage", *Caribbean Journal of Science*, vol.53, issue:1 (Jan-Apr), pp: 56-79, 2019. **(S.No: 1679; Web of Science & Science Citation Index Expanded)**
2. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, "Optimized pseudo-derivative feedback with feed-forward Controller using flower pollination algorithm for Automatic generation control in a restructured Power System", *Journal of Electrical Engineering*, vol.18, issue:3, pp: 1-15, 2018. **(SCI indexed) (S.No: 6025; Anna University-Annexure:I)**
3. N.Dhanasekar, **G.Ganesan @ Subramanian**, G.Sundaravadivel, G.Harinarayanan, "Simulation And Experimental Assessment Of Positive Output Triple Lift Luo Converter

With Different Various Controllers”, *Journal of Electrical Engineering (SCI indexed)* (S.No: 6025; Anna University-Annexure:I)

4. M.Durairasan, S.Sridharan, **G.Ganesan @ Subramanian**, “Design and analysis of 8/6 pole switched reluctance motor under transient tenure using finite element technique”, *Journal of Electrical Engineering (SCI indexed)* (S.No: 6025; Anna University-Annexure:I)
5. **G.Ganesan @ Subramanian**, M.Ramya, P.Usha Rani, K. Ramash Kumar, “Neural network controller based sequential switch cascaded H-bridge multilevel inverter”, *International Journal of Engineering & Technology (UAE)*, Vol.7; No.2.8; 2018 (**SCOPUS indexed**)
6. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, “Flower Pollination Algorithm for Automatic Generation Control in Interconnected Power Systems under Restructured Market – A Survey”, *Asian Journal of Research in Social Sciences and Humanities*, vol.7, no:3, pp: 371-381, 2017. (**SCOPUS indexed**)
7. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, “Flower Pollination Algorithm Based Decentralized Load-Frequency Controller for a Two-Area Interconnected Restructured Power System Considering Gas Turbine Unit”, *Middle-East Journal of Scientific Research*, vol.25, no:6, pp: 1308-1314, 2017. (**SCOPUS indexed**)
8. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, “Flower Pollination Algorithm Based PDFF Controller for a Two Area Interconnected Thermal Power System with Gas / Diesel Units”, *Global Journal of Energy Technology Research Updates*, vol.4, no:1, pp: 26-34, 2017.
9. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, “Determination of optimized gain value for a two area interconnected systems with energy sources in deregulated environment”, *International Journal of Advance and Innovative Research*, vol.5, no:3, pp: 30-37, 2018. (**S.No: 63571; UGC Referred Journal**)
10. **G. Ganesan @ Subramanian**, I.A. Chidambaram and J. Samuel Manoharan, “Price based automatic generation control in a two area Thermal-Thermal interconnected restructured power systems”, *International Journal for Research in Engineering Application & Management*, vol.4, issue:12, pp: 86-91, 2019. (**S.No: 64077; UGC Referred Journal**)
11. **G.Ganesan @ Subramanian**, Dr.M.K.Mishra, Dr.Venkatesan, “A study on vertical wind generator”, *International Journal of Advance Technology in Engineering and science*, Vol. 05, Issue: 04, pp. 826 – 834, April 2017.
12. **G.Ganesan@Subramanian**, V.Mohan, R.Anandaraj, G.Sundaravadivel, “Renewable Energy based air conditioning system for public transports in green environment”,

13. **G. Ganesan Subramanian**, S. Mahendiravarman, V. Mohan, R.Anandaraj, “Implementation of Novel Control Strategies for Interleaved flyback inverter with photovoltaic AC module system”, *International Journal of Emerging Technology and Advanced Engineering, (IJETAE)*, Vol. 5, No. 2, Pg. 308-315, Feb 2015
14. **G. Ganesan Subramanian**, J.Govindarajan, R.Anandaraj, Dr.N.P.Subramanian, “Analysis and design of three port flyback inverter using an active power decoupling method to minimize the input capacitance”, *International Journal of Emerging Technology in Computer Science and Electronics (IJETCSE)*, Vol.2, Pg:54-55, Feb 2015
15. S. Mahendiravarman, **G. Ganesan Subramanian**, V. Mohan, R. Anandaraj, “Implementation of Novel Control Strategies for Interleaved flyback inverter with photovoltaic AC module system”, *International Journal of Emerging Technology and Advanced Engineering*, Vol. 5, No. 2, pp. 308-315, Feb 2015
16. **G. Ganesan**, Dr.N.P.Subramanian, V.Mohan, R.Anandaraj, “A Smart approach to condition monitoring, parameter estimation and execution of WECS using PLC & SCADA”, *CiiT International Journal of Autonomous and Automation systems*, vol. 5, No. 5, July 2013.
17. G. Chitrakala, **G. Ganesan**, P.I.D.T. Baladuraikannan, K. Parameswaran, “Improvement of Power Quality By Controlling of Reactive Power Using Thyristoroid Control of Tap Changer to the Grid Connected System”, *CiiT International Journal of Programmable Device Circuits and Systems*, Vol. 3, No. 9, pp. 481-485, Aug. 2011

INTERNATIONAL CONFERENCE:

- [1] B.Aarathi, S.Sivamani, **G.Ganesan**, S.Latha, “Voltage security assessment and state estimation using simulated synchrophasor measurement”, *Proceedings of International conference on Innovative Research in Electrical Sciences (ICIRES'15)*, May 2015
- [2] S.Sivamani, B.Aarathi, **G.Ganesan**, S.Latha, “Design and Implementation of Multi-Source Renewable Energy Harvesting System with High Frequency Inverter”, *Proceedings of International conference on Innovative Research in Electrical Sciences (ICIRES'15)*, May 2015

- [3] S.Latha, B.Aarthi, **G.Ganesan @ Subramanian**, K.Nandakumar, “A Cascaded Multilevel Inverter Based DSTATCOM for Restructured Power Systems to Compensate the Reactive Power Using Phase Shift Carrier Techniques”, *Proceedings of International conference on Innovative Research in Electrical Sciences (ICIRES'15)*, May 2015
- [4] **G.Ganesan@Subramanian**, S. Mahendiravarman, “Implementaton of phase control technique for interleaved flyback converter with PV AC module system”, *Proceedings of International conference on Recent Research Issues In Electrical Engineering*, March 2015
- [5] **G.Ganesan@Subramanian**, V.Anandakumar, V.Mohan, S.Sivamani, “Implementation Of New Control Technique For Interleaved Flyback Inverter Based PV System”, *Proceedings of International conference on Advances in Engineering & Technology (ICAET'14)*, May 2014
- [6] **G. Ganesan@Subramanian**, V.Mohan, S.Sivamani, S.Latha, “Implementation of Fault Diagnosing Technique for Replacing Damaged Power Device in Induction Motor Drive”, *Proceedings of International conference on Advances in Engineering & Technology (ICAET'14)*, May 2014.
- [7] **G.Ganesan** P.Pugazhenthii, P.Johnson, K.Rajavelu, “An Integrated Two-Stage Boost LCL-SRC with Capacitive Output Filter Converter”, *Proceedings of International Conference on Innovative research in Engineering and Technology (ICIRET 2014)*, May 2014
- [8] **G.Ganesan**, K.K.Saravanan, Dr. N. Stalin, Dr.T.SreeRenga Raja, “Hybrid Model Of Smart Metering, Monitoring And Fault Diagonistic System In Smart Grid”, *Proceedings of International Conference on Innovative research in Engineering and Technology (ICIRET 2014)*, May 2014
- [9] **G. Ganesan**, K.Jayaprakash, V.Mohan, R.Anandaraj, “Hysteresis Current Controlled Single Phase Inverters For PV Systems”, *Proceedings of International Conference on Innovative research in Engineering and Technology (ICIRET 2014)*, May 2014

- [10] **G.Ganesan@Subramanian**, V.Mohan, B.Aarthi, T.Suresh Padmanabhan, “Design And Analysis Of Energy Efficient Brushless DC Motor Maxwell”, *Proc. of Intl. Conference on Energy and Environmental Engineering (ICEEE 2014)*, pp. 22, Nov. 2014
- [11] B.Aarthi, V.Mohan, **G.Ganesan@Subramanian**, R.Anandaraj, “Synchronphasor Measurement For Voltage Stability Assessment In Smart Grid”, *Proc. of Intl. Conference on Energy and Environmental Engineering (ICEEE 2014)*, pp. 23, Nov. 2014
- [12] **G.Ganesan @ Subramanian**, L. Martin, N. Elayaraja, K. Kandan, “Real and Reactive Power Compensation for Non- Linear and Linear Loads Using UPQC and Renewable Energy Transformation to the Grid Connected System”, *Proceedings of International Conference on Systems, Methodologies, Automation and Research Trends (SMART '12)*, Dec. 2012
- [13] **G. Ganesan, V.Mohan**, S.Sivamani and M.Vijay, “A Novel Fault Tolerant Strategy In Induction Motor Drive Using IGBT”, *Proc. of IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)*, Vol. 2, pp.104-108, March 2013
- [14] K.Velmurugan, **G. Ganesan**, P. Kirithika, V.Anandakumar, “ A Novel Strategy for Speed Control of a Direct Field-Oriented Induction Motor Drive Using PID Controller and Fuzzy Logic Technique”, *Proc. of IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)*, Vol. 2, pp.230-233, March 2013
- [15] Johnson.P, **Ganesan@Subramanian.G**, Baladuraikannan.P.I.D.T, Jayaprakash.K. “Magnetic Field Analysis and Thermal Detection of SRM Using Finite Element Method”, *Proc. of IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)*, Vol. 2, pp.234-240, March 2013
- [16] S.Kanimozhi, C.Kalaivani, **G.Ganesan@Subramanian**, A. Janagiraman, “A Robust approach on rotor injection scheme for doubly fed injection generator using hybrid system”, *Proc. of IEEE –International Conference on Research and Development prospects on Engineering and Technology (ICRDPET 2013)*, Vol. 2, pp.271-277, March 2013

[17] M. Chitrakala, **G. Ganesan**, P.I.D.T. Baladuraikannan, K. Parameswaran, “Reactive Power Control Using Thyristoroid Control of Tap Changer for the Grid Connected System”, *Proc. of IEEE International Conference on Advances in Engineering and Technology, (ICAET-2011)*, May 2011

[18] P.I.D.T. Bala Durai Kannan, **Ganesan**, P. Johnson and A. Janagiraman, “Power Flow Control of Series Resonant Three Port DC-DC Converter for Hybrid Systems”, *Proc. of IEEE International Conference on Advances in Engineering and Technology, (ICAET-2011)*, May 2011

[19] M. VinothKumar, **G. Ganesan**, P. Johnson and K. Vijayakumar, “Design of Decentralized Load Frequency Controller for Deregulated Hydro-Thermal Power Systems”, *Proc. of IEEE International Conference on Advances in Engineering and Technology, (ICAET-2011)*, May 2011

[20] T. Suresh Padmanabhan, M. Thamil Alagan, J. Senthil, **G. Ganesan Subramanian**, “Futuristic Embedded Based Controlling of Electrical Equipments using Novel Secured RF Remote”, *Proc. of International Conference on Innovative Research in Engineering and Technology (iCIRET2010)*, pp. 1-4, Aug. 2010.

NATIONAL CONFERENCE:

[1] S.Agathiyan, **G.Ganesan @ Subramanian**, “Implementation of fault diagnosing technique for replacing power device in induction motor drive”, *Conference proceedings on Nature Inspired Computing Applied to Electrical -Engineering (NICAEE-2018) sponsored by DST-PURSE Phase-II*, October 2018.

[2] **G.Ganesan@Subramanian**, V.Anandakumar, S.Selvaganapathi, “High-Efficiency Module Integrated Photovoltaic Power Conditioning System”, *Proceedings of National conference on Recent Trends in Power System (NCRTPS'13)*, pp. 81-88, Feb 2013.

[3] **G.Ganesan@Subramanian**, P.Johnson, PIDT. Baladuraikannan, K.Vijayakumar, “Real and reactive power compensation for non-linear loads and linear loads using UPQC and transformation

of wind energy to the grid connected system”, *Proceedings of National conference on Congestion Management and Restructured Power Systems (CMRPS’11)*, pp. 81-86. Jan 2011

[4] P.Johnson, **G.Ganesan@Subramanian**, K.Vijayakumar, G.N. Aravind, “Electromagnetic and Thermal analysis of 8/6 pole SRM using finite element method”, *Proceedings of National conference on Innovations in Electrical & Electronics Engineering (IEEE’11)*, pp. 07-11. Mar 2011

[5] **G.Ganesan@Subramanian**, P.Johnson, PIDT.Baladuraikannan, R.Ramadhas, “Transient Analysis of 8/6 pole SRM using finite element method”, *Proceedings of National conference on Recent Trends in Electrical & Electronics Engineering (JCECON’11)*, pp. 36, March 2011

[6] PIDT.Baladuraikannan, P. Sathishkumar, **G.Ganesan@Subramanian**, P.Johnson, “3port transformer coupled series resonant DC-DC converter for hybrid photo voltaic cell systems”, *Proceedings of National conference on Recent Trends in Electrical & Electronics Engineering (JCECON’11)*, pp. 36, March 2011

AS A RESOURCE PERSON:

| S.No | Lecture Title | Program Sponsor | Place | Date |
|------|--|--|---|------------|
| 01 | Research Proposals in Higher Educational Institutes | Acharya College of Engineering & Technology, Puducherry | Puducherry | 09.02.2019 |
| 02 | Autonomous robots in R&D | AICTE-ISTE sponsored six days FDP on “Emerging trends in Autonomous mobile robots” | E.G.S. Pillay Engineering College, Nagapattinam | 05.06.2018 |
| 03 | Modelling and behaviour of tank robots using matlab – best | AICTE sponsored “Advances In Research And Development Of Intelligent Mobile Robots” | E.G.S. Pillay Engineering College, Nagapattinam | 23.11.2017 |
| 04 | Modelling and stability analysis of transmission and distribution systems – a review in simulation study | Centre for faculty development, Anna University, EE6402-Transmission and Distribution | University College of Engineering, Thirukuvalai | 09.12.2017 |
| 05 | Matlab applications on interconnected power systems | Centre for faculty development, Anna University, EE6603-Power system operation and control | University College of Engineering, Thirukuvalai | 22.11.2016 |

FDP / WORKSHOPS / SEMINAR ATTENDED:

1. “Hydrogen powered fuel cell for emission free future India”, CSIR sponsored two days technical seminar (25.06.2018 to 26.06.2018) Department of EEE, E.G.S. Pillay Engineering College, Nagapattinam, June 2018.
2. “LaTeX and Research methodology”, Two days national level workshop (20.01.2017 & 21.01.2017) organized by Department of ECE, National Institute of Technology, Puducherry, January 2017.
3. “Paper publication”, Two days national level workshop (16.12.2016 & 17.12.2016) organized by Department of Physics, Annamalai University, Chidambaram, December 2016.
4. “Smart Grid / Smart City An Indian Perspective” (Concepts, Challenges And Research Issues)”, National Level one day workshop organized by Department of EEE, Kongu Engineering College, Perundurai, Erode, July 2016.
5. “Accreditation Standards and Management in Higher Education”, RUSA sponsored one day workshop (17.10.2015), Perunthalaivar Kamarajar Institute of Engineering & Technology, Nedungadu, Karaikal, October 2015.
6. “MATLAB Applications in Science and Engineering (MASE’15)”, ISTE sponsored short term training programme (08.06.2015 to 12.06.2015), Department of EIE & Chemical Engineering, FEAT, Annamalai University, Chidambaram, June 2015.
7. “Energy Efficient Solar and Green buildings”, MNRE sponsored two days workshop (08.05.2015 to 09.05.2015), Department of Civil Engineering, E.G.S.Pillay Engineering College, Nagapattinam, May 2015.
8. “Prospects of Power plants in Engineering Life (PROPEL)”, The Institution of Engineers (India), Kolkata sponsored one day technical seminar (21.01.2015), Department of EEE & Mechanical, E.G.S.Pillay Engineering College, Nagapattinam, January 2015.
9. “Teaching and Research methodologies”, one day workshop (31.01.2015), Perunthalaivar Kamarajar Institute of Engineering & Technology, Nedungadu, Karaikal, January 2015.

10. “Design of Electrical Machines”, Anna University, Chennai sponsored seven days (04.12.2014 to 10.12.2014) faculty development programme, Department of EEE, C.K. College of Engineering & Technology, Cuddalore, December 2014.
11. “Power Converters for renewable energy applications”, IEEE Power Electronics Society sponsored one day workshop (28.11.2014), Department of EEE, E.G.S.Pillay Engineering College, Nagapattinam, November 2014.
12. “Energy conservation & Electrical Safety (ECES’14)”, two days awareness programme (22.08.2014 to 23.08.2014), Department of EEE, E.G.S.Pillay Engineering College, Nagapattinam, August 2014.
13. “Electrical drives & control”, Anna University, Chennai sponsored seven days (02.06.2014 to 08.06.2014) faculty development programme, Department of EEE, A.V.C. College of Engineering, Mayiladuthurai, June 2014.
14. “Simulation study of DC and AC drives (SSD)”, one day workshop (15.05.2014), E.G.S.Pillay Engineering College, Nagapattinam, May 2014.
15. “Fortification of communicative proficiency”, three days practicum (12.05.2014 to 14.05.2014), SHINE communicative English and Department of Science and Humanities, E.G.S.Pillay Engineering College, Nagapattinam, May 2014.
16. “Wind driven generators”, TEQIP-II sponsored two days workshop (13.12.2013 to 14.12.2013), Department of EEE, National Institute of Technology, Tiruchirappalli, December 2013.
17. “Industrial automation”, Prolific systems & Technologies Pvt., Ltd., Chennai, convened six days workshop (05.06.2013 to 10.06.2013), E.G.S.Pillay Engineering College, Nagapattinam, June 2013.
18. “Digital controller for special machines drives applications”, one day workshop (13.03.2013) organized by A.V.C. College of Engineering, Mayiladuthurai, March 2013.
19. “Modern Power simulation Tools (MPST’10)”, DRDO sponsored two days workshop (24.11.2010 to 25.11.2010), Department of EEE, Saranathan College of Engineering, Tiruchirappalli, November 2010.

20. “Advance Machines for Electric Propulsions systems”, AICTE sponsored staff development programme (16.11.2009 to 29.11.2009), Department of EEE, Arunai Engineering College, Thiruvannamalai, November 2009.

PROFESSIONAL BODIES MEMBERSHIP:

- Member in “The Institution of Engineers (India) [IEI], Kolkata” [M 153907-2]
- Member in IEEE [#96239698]
- Member in “The Institution of Engineering & Technology [IET], U.K” [M 1100501700]
- Life Member in “Indian Society for Technical Education” [ISTE], New Delhi [LM 94038]
- Member in “The Institution of Electronics and Telecommunication Engineers” [IETE], New Delhi [M 500599]

INTERNATIONAL JOURNAL REVIEWER:

- Reviewer for International Journal – IJERT (**IJERTREW74**) <http://www.ijert.org/>
- Reviewer for International Journal – IJETAE http://www.ijetae.com/editorial_board.html
- Reviewer for International Journal – IJIRT <http://ijirt.org/Reviewers>

PROGRAMS COORDINATED:

- Since from June 2012 to till date, there are **27** programs have been organized in department as well as Institution level.
- Out of **27** programs, myself coordinated for **16** programs and it is listed below.

| S.NO | PROGRAM TITLE | NAME OF THE EXPERT AND PROFILE | SPONSOR | DATE | BENEFICIARY |
|------|---|---|--------------|-----------------------------|-------------------------------|
| 1 | Challenges and Opprtunities in Power Electronics Research | Dr.S.Jeevananthan, PEC Puducherry Dr.N.Stalin, Anna Univ – BIT Campus, Trichy | IEI, Kolkata | 21.04.2017 & 22.04.2017 | Faculties |
| 2 | Nano device fabrication: lithography beyond its limits | Dr.Sozaraj Rasappa, Professor and Project coordinator, Denmark Technical University, Denamark | EGSPEC | 24.08.2016 | Staffs and students of EEE |
| 3 | Design of PCB and product development | Mr. Santhosh and Mr. Kanava Pitchai, RAACTS | EGSPEC | 24.06.2016 to 28.06.2016 | Staffs and students of EEE |

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|----|---|---|-----------------|----------------------------|---|
| | | Trichy | | | |
| 4 | National Conference on Revolutionary Research in Electrical Engineering (NCRREE'16) | Dr.V.Mohan, Prof.R.Anandaraj & Mr.K.Krishnaram | IEI, Kolkata | 09.04.2016 | National Participants |
| 5 | (ICAET 2015) International Conference on Advances in Engineering and Technology | Mr.M.Sivakumar, CEO, ICTACT Tamilnadu, Chennai Dr.S.Jeevanathan, Asso.Prof/EEE, PEC, Puducherry | ICTACT, Chennai | 08.05.2015 & 09.05.2015 | National and International Participants |
| 6 | National Conference on Revolutionary Research in Electrical Engineering | Prof.V.Mohan, Prof.R.Anandaraj & Mr.K.Krishnaram | IEI, Kolkata | 27.03.2015 | National Participants |
| 7 | Prospects of Power plant in Engineering Life | Er.Periasamy, FIE., Council Member, The Institution of Engineers India, Kolkata | IEI, Kolkata | 21.01.2015 | Staffs and students of EEE & Mechanical |
| 8 | Energy Conservation & Electrical safety (ECES'14) | Mr.G.Ganesan, Mr.K.Nandakumar & Student members | EGSPEC | 22.08.14 & 23.08.14 | School students – Nagapattinam Zone |
| 9 | Significance of power consumption for end user | Mr.G.Selvaraj, EE, TANGEDCO | EGSPEC | 30.09.2014 | III EEE, II EEE |
| 10 | Power electronics in RES | Dr.S.Jeevanathan, Asso.Prof/EEE, PEC,Puducherry | EGSPEC | 01.11.2014 | II PG |
| 11 | CALONICS'14 Paper Presentation, Debugging and Spot Events | Dr.C.Sundarraj, Principal, AVCCE, Mayiladuthurai Mr.A.Albert Martin Ruban, HOD/EEE, Kings College of Engg, Thanjavur | EGSPEC | 26.09.2014 | Inter and Intra college Students |
| 12 | Matlab for electrical engineers | Mr.K.Thayumanavan, Mr.G.Ganesan, Mr.K.Krishnaram, Mr.P.Anbarasan | EGSPEC | 15.12.2014 to19.01.2014 | III EEE |
| 13 | IEEE International conference on Advances in Engineering & Technology (ICAET 2014) | Dr.S.Jeevanathan, Asso.Prof/EEE, PEC,Puducherry Dr.M.Sudhakaran, Prof/EEE, | IEEE | 02.05.2014 & 03.05.2014 | National & international participants |

| | | | | | |
|----|---|--|--------|--------------------------------|---------------------------------------|
| 14 | IEEE International conference on Innovative Research in Engineering & Technology (ICIRET 2014) | PEC,Puducherry | | | |
| 15 | Industrial safety management | NIOS, Nagapattinam | EGSPEC | 04-06-2013 | 2010-14 tudents |
| 16 | Industrial automation | Prolific Systems, Chennai | EGSPEC | 05-06-2013 to 10-06-2013 | 2011-15 students |
| 17 | International conference on research & development prospects on engineering & technology (ICRDPET 2013) | Dr.Suresh kumar jindal , Director , DRDO, New delhi | IEEE | 29-03-2013 | National & international participants |

Biography:

G. Ganesan@Subramanian received the Undergraduate degree with distinction in Electrical & Electronics Engineering, 2006 from Pondicherry University and Postgraduate Degree in Power Systems from Annamalai University in the year 2008. He is pursuing Doctorate degree at Annamalai University, Chidambaram. He is a Member in IEI, IET, IETE and life member in ISTE. He has 17 international journal publications, 20 papers in International conferences, 06 papers in National conferences and. At present, He is working as an Assistant Professor in the Department of EEE, EGS Pillay Engineering College at Nagapatinam. He has teaching experience of 11 years and his areas of interests are Power systems, Power quality, Restructuring and Deregulation, Renewable Energy, FACTS controllers and Smart grid.

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