



Dr. G. Ganesan @ Subramanian

Honorary Secretary
The Institution of Engineers (India)
Puducherry State Centre
✉ Karaikal, Puducherry, India
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ACADEMIC CHRONICLE:

- ✓ **Ph.D (Electrical Engineering)** at Annamalai University, Chidambaram during the year March 2020.
- ✓ **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.

PRESENT POSITION HOLD:

- ✓ Honorary Secretary (The Institution of Engineers: India – Puducherry State Centre)

ACADEMIC EXPERIENCE AS ON DATE:

S.No	Name of the College/ Institution	Designation	Tenure		Year of Experience
			From	To	
1.	Nethaji Subash Chandra Bose Group of Institutions, Thiruvarur	Research Head	Oct'22	May'24	1 year 7 months
2.	E.G.S. Pillay Engineering College, Nagapattinam	Incharge – R&D Cell & Associate Professor	Nov'17	Sep'22	4 Years 10 Months
3.	E.G.S. Pillay Engineering College, Nagapattinam	Assistant Professor	June'12	Nov'17	5 Years 5 Months
4.	National Institute of Technology, Puducherry	Temporary Faculty	Aug'11	Apr'12	9 Months
5.	Bharathiyar College of Engineering & Technology, Karaikal	Lecturer	Dec'08	July'11	2 Years 7 Months



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Key Projects:

- ✓ **ISRO-IPRC Space Expo** for 20,000 school students in and around Nagapattinam, Mayiladuthurai and Thiruvarur Districts at E.G.S. Pillay Group of Institutions, Nagapattinam.
- ✓ **DSIR license** obtained for E.G.S. Pillay Group of Institutions, Nagapattinam.
- ✓ **National Mathematics and Science day** for 6000 school students in and around Thiruvarur and Nagapattinam Districts at Nethaji Subash Chandra Bose Group of Institutions, Thiruvarur.
- ✓ **Erected Vertical Axis Wind Mill** at E.G.S. Pillay Engineering College, Nagapattinam worth **Rs.3,75,000** funded by TNSCST - Chennai.
- ✓ **Arranged DDU-GKY** at E.G.S. Pillay Group of Institutions, Nagapattinam.
- ✓ **Established IEL, IEEE, EWB and IWS Chapters** for E.G.S. Pillay Engineering College, Nagapattinam.
- ✓ **Established R&D labs** at E.G.S. Pillay Engineering College, Nagapattinam.
- ✓ **Developing COVID-ROBO** for Nagapattinam Government Headquarters Hospital.
- ✓ **Created and practiced the awareness among students and faculties** of E.G.S. Pillay Group of Institutions, Nagapattinam about **Research Project Proposal write-up, Research Manuscript write-up and publish, Patents drafting and filing.**
- ✓ **Created reports** for the Institute E.G.S. Pillay Group of Institutions, Nagapattinam like **DST, AICTE, TNSCST, ONGC, CSIR, IEL, ISTE, IEEE, IETE and many more industries etc.,**

S.no	Funding Agency	Title	Amount (in Rs.)	Name of the faculty	Date	Status
01	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
02	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
03	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



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RESEARCH & DEVELOPMENT

PATENTS REGISTERED:

S.No.	Application Number	Title	Status
1.	202041014796	A novel multiple access edge computing technique for Ultra Reliable Low Latency Communication (URLLC) and massive IOT in 5G networks http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_4866_1/Part-1.pdf	Date of Publish: 15.05.2020
2.	201741044998	Solar Lantern Powered Chulha http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_4797_1/Part-2.pdf	✓ First Examination reported ✓ Date of Publish: 18.10.2019

AWARDS:

- ✓ Awarded as a “**Young Scientist**” from Society of Aerospace and Mechanical Professionals (SAMP) in the year 2020.
- ✓ Awarded as a “**Young Scientist**” from VD good professional in the year 2021.

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 development of smart robot to Nagapattinam Government Headquarters Hospital for assisting healthcare workers in outbreak COVID-19	1,97,500	Dr. G.Ganesan @ Subramanian Dr. K. Durairasan Dr. K. K. Saravanan	02.08.2023	Ongoing [Sanctioned: Ref. No: TNSCST/STP/EEE-04/DR/2023/9441] (August 2023 to August 2025; 2 years)
02	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	Completed [Sanctioned: Ref. No: TNSCST/STP-PRG/AR/2018-2019] (November 2019 to November 2021; 2 years)
03	DSIR	R&D Recognition proposal (SIRO) (Prepared by G.Ganesan)	-	Dr.S.Ramabalan	07.12.2017	E.G.S. Pillay group of Institutions recognized by DSIR



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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	Fetchted 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	Fetchted 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	Fetchted 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	Fetchted 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)	Capacity building for industrial needs	1,50,000	Dr. G. Ganesan @ Subramanian	28.07.2023	Sanctioned
2	ONGC	International Conference on Energy Conservation for future energy systems	50,000	Dr. G. Ganesan @ Subramanian	13.03.2023	Sanctioned and Completed
3	Tamilnadu State Council for Science and Technology (TNSCST)	National Science Day and Mathematics Day	4,00,000	Dr. G. Ganesan @ Subramanian	05.01.2023	Sanctioned and Completed



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4	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
5	IETE & ISTE	Assessment & implementation of OBE	10,000	Dr.S.Ramabalan Prof.G.Ganesan @ Subramanian	02.02.2019 & 03.02.2019	Sanctioned and Completed
6	ISTE	OBE for Engineering Students	10,000	Dr.S.Ramabalan Prof.G.Ganesan @ Subramanian	18.01.2019 & 19.01.2019	Sanctioned and Completed
7	Tamilnadu State Council for Science and Technology	Capacity building for Industrial needs to the polytechnic students <i>(Prepared by G.Ganesan)</i>	1,50,000	Prof. V. Vijayabalan Prof.N.Bhuvanashankar	30.01.2019 to 08.02.2019	Sanctioned and Completed
8	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
9	ONGC	Bloom Box – The future of Energy in India	43,500	Prof.G.Ganesan @ Subramanian	03.05.2018 & 04.05.2018	Sanctioned and Completed
10	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
11	The Institution of Engineers (India), Kolkata	Disaster Management and Mitigation	20,000	Dr.Sivakumar Prof. G.Ganesan @ Subramanian	21.06.2018	Sanctioned and Completed
12	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
13	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
14	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.
15	AICTE - ISTE	Refresher / Induction program <i>(Prepared by G.Ganesan)</i>	3,00,000	Dr.S.Ramabalan	29.11.2017	Sanctioned and Completed.



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16	The Institution of Engineers (India), Kolkata, Under seminar grant scheme	Two days Lecture workshop on “CHallenges and OPportunities in Power Electronics Research (CHOPPER)”	20,000	Prof. G. Ganesan @ Subramanian Dr.V.Mohan Dr.T.Suresh Padmanabhan	21.04.2017	Sanctioned and Completed.
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APPLIED RESEARCH FUNDED PROJECTS:

S.no	Funding Agency	Title	Amount (in Rs.)	Name of the faculty	Date	Status
01	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
02	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
03	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
04	DST – FIST	Development of Research labs (Prepared)	38,31,000	Dr.S.Ramabalan	22.06.2017	Attempted
05	AICTE-RPS	Performance Enhancement Of AC-DC-AC Converter Fed Drives Using Intelligent Control Strategies (Prepared)	14,86,400	Dr. V.Mohan	10.01.2017	Attempted
06	SERC-Fast Track Young Scientist	Design Of Load Frequency Controller For Smart Grid	8,18,650	Prof. G. Ganesan @ Subramanian	16-03-2015	Attempted
07	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
08	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
09	TNSCST-STP	Some Advanced Tools For Fishing	4,92,000	Prof. G. Ganesan @ Subramanian	14-11-2014	Attempted
10	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



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RESEARCH PUBLICATIONS:

- | | |
|----------------|---|
| a) Journal | (i) International: 25 |
| b) Conferences | (i) International: 20 (ii) National: 06 |

INTERNATIONAL JOURNAL:

1. R. Lal Rajasingh, S. Agathiyan, **G. Ganesan @ Subramanian**, “Integrated Perturb and Observe Algorithm to Extract Maximum Power in Hybrid Renewable Energy System”, *IEEE Xplore-2023 First International Conference on Advances in Electrical, Electronics and Computational Intelligence (ICAEECI)* pp. 1-9 (2023)
2. G.T Sundar Rajan, V. Sivachidambaranathan, **G. Ganesan @ Subramanian**, “Performance Analysis Of A Sensorless DC Motor Using Neuro Fuzzy Logic Control”, *IEEE Xplore International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE)* , pp: 522-527 (2023)
3. P. J. Sureshbabu, T. Suresh Padmanabhan, **G. Ganesan @ Subramanian**, “Design and analysis of a photovoltaic-powered charging station for plug-in hybrid electric vehicles in college campus”, *IET-Electrical Systems in Transportation*, pp: 1-12 (2022) (**Science Citation Index Expanded**)
4. **G. Ganesan Subramanian**, Albert Alexander Stonier, Geno Peter, Vivekananda Ganji, “Application of flower pollination algorithm for solving complex large-scale power system restoration problem using PDFF controllers”, *Complexity-Hindawi*, Vol.2022, Aug 2022, pp: 1-12. (**Science Citation Index Expanded**)
5. J. Samuel Manoharan, M. Braveen, **G. Ganesan Subramanian**, “A hybrid approach to accelerate the classification accuracy of cervical cancer data with class imbalance problems” *International Journal of Data Mining and Bioinformatics*, 2021, Vol.25 No.3/4, pp: 234-261. (**Science Citation Index Expanded**)
6. **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”, *Journal of new materials for electrochemical systems*, Vol. 24, No. 2, June 2021, pp: 84-94. (**Science Citation Index Expanded**)
7. G.T. SundarRajan, V. Sivachidambaranathan, J. Barnabas Paul Glady, **G. Ganesan @ Subramanian**, “A Novel Design on Non-Isolated High-Gain Interleaved KY - Converter with Enhanced Dynamic Performance” *IEEE-Xplore*, September 2021 (**SCOPUS indexed**)



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8. R. Elavarasi, D. Padma Subramanian, J. Baskaran, **G. Ganesan @ Subramanian**, “Analysis of switched reluctance motor-powered marine electrical drives”, *International Journal of Mechanical Engineering*, Vol. 7 No. 1 (January, 2022)-Part 2. **(SCOPUS indexed)**
9. **G. Ganesan @ Subramanian**, S. Agathiyan, PIDT. Baladuraikannan, B. Ponmudi, “Fault Diagnosing Technique For Replacing Damaged IGBT Device In Induction Motor Drive”, *International Journal of Future Generation Communication and Networking*, Vol. 13 No. 4 (2020), pp: 1612-1619 **(Web of Science & ESCI)**
10. **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)**
11. 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)**
12. 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)**
13. **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)**
14. **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)**
15. **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)**
16. **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.



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17. **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)**
18. **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)**
19. **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.
20. **G. Ganesan @ Subramanian**, V.Mohan, R.Anandaraj, G.Sundaravadeivel, “Renewable Energy based air conditioning system for public transports in green environment”, *International Society for Green, Sustainable Engineering and Management (ISGSEM)*, Vol.2; Issue: 23 Pg: 49-57, December 2015
21. **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
22. **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
23. 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
24. **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.
25. 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



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INTERNATIONAL CONFERENCE:

- [1] B.Aarthi, 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.Aarthi, **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, “Implementation 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



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[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, “Synchrophasor 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



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[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



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[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 (NICAAE-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



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[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

PROJECTS GUIDANCE:

- ❖ Ph.D Level : 02 (Guiding)
- ❖ UG Level 30
- ❖ PG Level 15

BOARD OF STUDIES - MEMBER:

- Cape University of Technology, South Africa.
- Annamalai University, Chidambaram, Tamil Nadu.
- K.L.N. College of Engineering (Autonomous), Madurai, Tamil Nadu
- Vinayaka Missions University, Chennai, Tamil Nadu

AS A RESOURCE PERSON:

S.No	Lecture Title	Program Sponsor	Place	Date
01	Role of faculties in development of Technical Institute	Acharya College of Engineering & Technology, Puducherry	Puducherry	10.6.2021
02	Research Proposals in Higher Educational Institutes	Acharya College of Engineering & Technology, Puducherry	Puducherry	09.02.2019
03	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
04	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
05	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
06	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



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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



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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.



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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

- ✓ Wiley – International Transactions for Electrical Energy Systems
- ✓ JESTECH
- ✓ IJERT (**IJERTREW74**) <http://www.ijert.org/>
- ✓ IJETAE http://www.ijetae.com/editorial_board.html
- ✓ 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.



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S.NO	PROGRAM TITLE	NAME OF THE EXPERT AND PROFILE	SPONSOR	DATE	BENEFICIARY
1	Challenges and Opprtunities in Power Electronics Research	Dr.S.Jeevanathan, 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, Denmark	EGSPEC	24.08.2016	Staffs and students of EEE
3	Design of PCB and product development	Mr. Santhosh and Mr. Kanava Pitchai, RAACTS, Trichy	EGSPEC	24.06.2016 to 28.06.2016	Staffs and students of EEE
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



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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.Jeevananthan, Asso.Prof/EEE, PEC,Puducherry	EGSPEC	01.11.2014	II PG
11	CALONICS' 14 Paper Presentation, Debugging and Spot Events	Dr.C.Sundarraaj, 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 to 19.01.2014	III EEE
13	IEEE International conference on Advances in Engineering & Technology (ICAET 2014)	Dr.S.Jeevananthan, 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



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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 completed his Doctorate degree at Annamalai University, Chidambaram in the year 2020. He is a Member in IEE, IEEE, IET, IETE and life member in ISTE. He has 25 International Journal publications, 20 papers in International conferences, 06 papers in National conferences. He has teaching experience of around 16 years and his areas of interests are Power systems, Power quality, Restructuring and Deregulation, Renewable Energy, FACTS controllers and Smart grid.

Address for Communication:

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