

RESUME

DR. S.D.SUNDARSINGH JEBASEELAN M.E., Ph.D.

School of Electrical and Electronics

Department of Electrical and Electronics Engineering

Sathyabama Institute of Science and Technology,

Jeppiaar Nagar, OMR

Chennai – 119, Tamil Nadu, India.

Mobile: +91- 9444447783, +91 – 7401127383

E-Mail: sundarjeba@yahoo.co.in , sundarsingh.eee@sathyabama.ac.in



- **Objective**

Seeking a Challenging career, where I can apply my Knowledge and skill to prove my best.

- **Academics**

- ❖ **Ph.D – Power Systems (August 2014, .Faculty of Electrical Engineering, Sathyabama University, Chennai)**
- ❖ **M.E - Power Systems (April 2005, Faculty of Electrical Engineering, Annamalai University,Chidhambaram)**
- ❖ **B.E – Electrical & Electronics Engineering (April 2002, Karunya Institute of Technology, Bharathiyar University, Coimbatore)**
- ❖ **Higher Secondary School (Mar 1997 , St.Joseph's Higher Secondary School, Cuddalore -1)**
- ❖ **SSLC – X Standard (Mar 1995, St.Joseph's Higher Secondary School, Cuddalore -1)**

- **Area of Specialization** : Reactive Power Compensation (Power Systems)

- **Teaching Experience** :16 Years 10 months

- **Professional Experience**

- ❖ Worked as a lecturer in the Department of Electrical & Electronics Engineering, **Dr.Pauls Engineering College, Tamilnadu**, India, June 2005 –May 2006.
- ❖ Worked as a lecturer in the Department of Electrical & Electronics Engineering, **Sathyabama University, Chennai, Tamilnadu**, India, June 2006 – May 2009.

- ❖ Worked as a Assistant Professor in the Department of Electrical & Electronics Engineering, **Sathyabama University, Chennai, Tamilnadu**, India, June 2009 – May 2015.
- ❖ Working as a Associate Professor in the Department of Electrical & Electronics Engineering, **Sathyabama University, Chennai, Tamilnadu**, India, June 2015 – Till Date.

- **List of conference, short term course etc. organized**

- ❖ Coordinator for the National conference on “Future Challenges and Budding Intelligent Techniques in Electrical and Electronics Engineering, NCEEE 10”, Sathyabama University on 29th & 30th July 2010.
- ❖ Co-convener for the National conference on “computational Intelligence in Electrical and Electronics Engineering, NCIEEE 12”, Sathyabama University on 1st & 2nd March 2012.
- ❖ Coordinator for the Second National conference on “computational Intelligence in Electrical and Electronics Engineering, NCIEEE 13”, Sathyabama University on 21st & 22nd Feb 2013.
- ❖ Coordinator for the Third National conference on “computational Intelligence in Electrical and Electronics Engineering, NCIEEE 14”, Sathyabama University on 6th & 7th Feb 2014.
- ❖ Co-convener for the National conference on “computational Intelligence in Electrical and Electronics Engineering, NCIEEE 17”, Sathyabama University on 17th & 18th Apr 2017.
- ❖ Co-ordinator for the Two day workshop on “Electrical AutoCAD” in Sathyabama University on 14th & 17th July 2017.
- ❖ Coordinator for the Two Day Faculty Development Programme on “Simulation and Analysis of Power System using Mipower” at Sathyabama University on 7th & 8th September 2017.
- ❖ Conduct Two day workshop to students on Analysis of power system by using Mipower at Sathyabama University on 18th & 19th September 2017.
- ❖ Convener for DST – SERB Sponsored Five Days National Level Seminar on “**Integration of Green Energy with Smart Grid through IOT**” (**IGESGIOT - 2018**) at Sathyabama Institute of Science and Technology from 19.06.2018 to 23.06.2018.
- ❖ Convenor for the two days National conference on “computational Intelligence in Electrical and Electronics Engineering, NCIEEE 20”, Sathyabama Institute of Science and Technology from 18th & 19th May 2020.

- ❖ Co-Convenor for the one week faculty Development Programme on “ Integration of Green Energy with Smart Power systems” from 22.06.2020 to 27.06.2020 at Sathyabama Institute of Science and Technology.
- ❖ Co – Convenor for Five days national level seminar on “ Green Technology and Sustainability in Power System Engineering” from 15.03.2021 to 19.03.2021, IET Student Chapter , Department of EEE, Sathyabama Institute of Science and Technology, Chennai

- **List of workshop, short term course, Faculty development program etc. participated**

- ❖ Attended Training Programme on Programme for Engineers of the Future from 6th - 8th September 2006 at L&T Switchgear Training Centre, Coonoor.
- ❖ Attended Faculty Training Programme on Electromagnetic Compatibility form 8th -12th January 2007 at Amrita School of Engineering, Coimbatore.
- ❖ Attended Two day workshop on Energy Conservation in Industries, Reactive power management, AC Variable Frequency Drives & Soft Starters conducted at Sathyabama University, Chennai on 7th & 8th February 2008 by L&T Limited, Switchgear Training Centre, Coonoor.
- ❖ Attended Two days National Level Seminar on Recent Trends in Monitoring & Control of Power System Disturbances held on 25th & 26th March 2009 at Park college of Engineering and Technology, Coimbatore.
- ❖ Attended Three days National Seminar on Intelligent System Applications to Future Challenges in Power Engineering held on Pondicherry Engineering College From 9th – 11th September 2009.
- ❖ Attended One day Workshop on MATLAB & Simulink for Engineering Education 24th August 2012 at Chennai.
- ❖ Attended One day National Seminar on Soft Computing Techniques for power systems and power electronics Applications organized by the School of electrical engineering VIT Chennai on 4th January 2013.
- ❖ Attended one day Guest Lecture on Web based design and delivery of Educational Contents-NPTEL Courses on 27.1.2017 held at Sathyabama University.
- ❖ Attended Two Days ISRO Sponsored National Seminar on Advances in Clean Energy Technologies for a Sustainable Solution to Energy Crisis from 17.3.2017 to 18.3.2017 at Kongu Engineering College, Perundurai, Erode.

- ❖ Attended One Week Training on “Power System Simulation Studies using Mi Power V9.1” Software from 7.8.2017 to 11.8.2017 at Power Research & Development Consultants Pvt Ltd., Bangalore.
- ❖ Attended One day Training Programme on Indian Patenting & Filing Procedures jointly conducted by Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur & Sathyabama University held on 19.8.2017 at Sathyabama University, Chennai.
- ❖ Attended One Week Training programme on “Power Electronics and its Applications”, in Advanced Training Institute (ISO 29990-2010 Certified), Chennai from 4.12.2017 to 8.12.2017.
- ❖ Attended TNSCST Sponsored three day National Seminar on "Opportunities and Challenges of Renewable Energy in Smart Grid Systems"(OCRESGS-18) from 31.10.2018 to 02.11.2018 at Sathyabama Institute of Science and Technology, Chennai.
- ❖ Attended Six Days Faculty Development Programme on “ Tiva Embedded Processor for IOT application” from 16th to 21st December 2019 at Sathyabama Institute of Science and Technology, Chennai.
- ❖ Attended AICTE Sponsored Six Days Short term course on “Integration of Advanced Technologies to Power Quality Solutions for Green Energy systems in Smart Grid” from 17th to 22nd February 2020 at Pondicherry Engineering College, Pondy.
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Internet of things” from 10th to 14 th April 2020 at NITTTR, Chandigarh.
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Environment and Sustainable Development” from 20th to 24 th April 2020 at NITTTR, Chandigarh.
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Teaching and training for Accreditation in Technical Education” from 27th April to 01st May 2020 at NITTTR, Chandigarh.
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Academic Leadership Enhancement in Technical Institutions” from 04th to 08th May 2020 at NITTTR, Chandigarh
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Nano Materials and Device” from 11th to 15th May 2020 at NITTTR, Chandigarh.
- ❖ Attended online AICTE – One Week Faculty Development Programme on “Quantum and Energy Materials: Potential & Applications” from 18th to 22nd May 2020 at NITTTR, Chandigarh

- ❖ Attended online AICTE – One Week Faculty Development Programme on “Operational Research: An Introduction” from 25th to 29th May 2020 at NITTTR, Chandigarh.
- ❖ Attended one Week Faculty Development Programme on “ Leading Industry 4.0 Revolution” at Sathyabama Institute of Science and Technology, Chennai from June 1, 2020, to June 6, 2020 through online Pedagogy.
- ❖ Attended one Week online Faculty Development Programme on “ Recent trends in Micro grid Technologies”, Vignan Institute of Technology and Science from 06.07.2020 to 11.07.2020.
- ❖ Attended five days online Faculty Development Programme on “ Contemporary Challenges in Electrical Engineering and Aiding Technologies” St.Joseph’s College of Engineering, Chennai from 06.07.2020 to 10.07.2020.
- ❖ Attended one day webinar on “Simulation Driven Approach For Designing Of Electric Motors” , Department of Electrical and Electronics Engineering & Internal Quality Assurance Cell, Guru Nanak Institute of Technology, Hyderabad, Telangana on 9th July 2020.
- ❖ Attended one day webinar on “Introduction of Fuzzy and its Applications to Engineering Problems” , Department of Electrical and Electronics Engineering of Francis Xavier Engineering College, Tirunelveli on 11.07.2020.
- ❖ Attended one week AICTE Sponsored six day online STTP on “ Cyber Security and Resilience of Smart Grid”, KCG College of Technology ,Chennai from 27.07.2020 to 01.08.2020.
- ❖ Attended AICTE Sponsored Six day online Short Term Training Program (STTP) on,” Novel Design & Control Strategies and Innovative Technical Practices in LV/HV Modern Switchgear”, Saranathan college of Engineering, Tiruchirappalli, Tamil Nadu, from 03.08.2020 to 08.08.2020
- ❖ Attended AICTE Sponsored Six day online Short Term Training Program (STTP) on “Outcome based Education and Quality Assurance in Teaching”, SCMS School of Technology and Management, Kerala from 17th to 22nd August 2020.
- ❖ Attended AICTE – ATAL Five days online FDP on “ Global Warming & Impacts of Power Electronics Towards Green Technology” , SRM Valliammai Engineering College, Chennai from 24.05.2021 to 28.05.2021.

- **Professional Activities**

- ❖ Act as a Ph.D Viva – Voce Examiner as titled , “**Study and Investigation of Neutral Point Clamped Multi Level inverter for Direct Torque control of Induction Motor**”, on 8.1.2016 at St.Peter’s University.

- ❖ Technical Judge of the National level technical symposium organized by the Department of Electrical and Electronics Engineering held on 30th September 2015 at St.Peter's college of Engineering and technology, Chennai.
- ❖ Technical Reviewer of the IEEE International conference on circuit, power and computing Technologies – 2013, organized by the Department of Electrical and Electronics Engineering held on 21st and 22nd march 2013 at Noorul Islam Centre for Higher Education.
- ❖ Reviewer Member in Scientific Research Journal (Circuits and Systems).
- ❖ Reviewer of the Journal of Electrical and Control Engineering (JECE), (www.joece.org).
- ❖ Editorial Board member in International Journal of Engineering Research and Technology.
- ❖ Reviewer Board member in International Journal of Electronics and Electrical Engineering (IJEET)
- ❖ Reviewer Board member in International Journal of Electrical Power & Energy Systems - IF-2.587 (Elsevier)
- ❖ Reviewer Board member in Journal of Green Engineering.
- ❖ Life Member of International Association of computer science and Information Technology.
- ❖ Got Award of Excellence in Electrical Engineering Research from Singapore university on 17.04.2019.
- ❖ Life Member in IEI (India).
- ❖ Reviewer Board Member in International Journal of Electronics, Electrical and Communication Engineering.
- ❖ Life Professional Member of Institute of Scholars (Insc).
- ❖ Got Award for Young Researcher Award from Institute of Scholars on October 2020.
- ❖ Act as a Session Chair in International Virtual Conference on Recent Trends in Electrical Energy, Artificial Intelligence, Internet of Things and Nanomaterials organized by Dept of EEE, M.Kumarasamy Engineering College, Karur on April 29 & 30, 2021.
- ❖ Got Indian Researcher Award from International Research Association, England, United Kingdom on September 2021.

- ❖ Got Best Faculty Advisor Award from IEI, on 3rd September 2021 at 1st Southern Regional Technical Conclave (SRTC) held at Adhiyamaan College of Engineering, Hosur, Tamil Nadu.
- ❖ Acted as a Advisory committee in IEEE International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI-2022), St. Joseph's College of Engineering, Chennai, India on 28 & 29 January, 2022.

- **Research Activities**

- **Funded Project**

- ❖ DST - SERB Sponsored Five Days National Level Seminar on “**Integration of Green Energy with Smart Grid through IOT**” (IGESGIOT - 2018) (Ref No SSY/2017/001796)., **Sanction Amount Rs 1,00 ,000.**
- ❖ Submitted the project proposal to Tamil Nadu state Council for Science and Technology, DOTE Campus, Chennai in the title “**DEVELOPMENT OF SOLAR AIR CONDITIONING SYSTEMS USING ELECTRIC POWER OPTIMIZATION TECHNIQUE**”.
- ❖ Submitted the project proposal to Tamil Nadu state Council for Science and Technology, DOTE Campus, Chennai in the title “**DEVELOPMENT OF SMART ENERGY METER FOR MONITORING THE READING AND CONTROL USING IOT**”.

- **List of Patent**

- ❖ Dr.S.Nirmalraj. Dr.D.Godwin Immanuel and Dr.S.D.Sundarsingh Jebaseelan “**Automatic Face mask and Sanitizer Dispenser**”, Design Patent Granted on October 2021,
- ❖ Dr.D.Godwin Immanuel , Dr.S.D.Sundarsingh Jebaseelan and Dr.S.Nirmalraj,”**Automatic Face Mask Dispenser with Image Sensing Sensor**”, Design Patent Granted on December 2021,
- ❖ Dr.S.D.Sundarsingh Jebaseelan and Dr.S.Nirmalraj, “**Tabletop Touch Free Automatic Hand Sanitizer Dispenser**”, Design Patent Granted on October 2020.
- ❖ Dr.S.Nirmalraj and Dr.S.D.Sundarsingh Jebaseelan, “**Desktop Touch Free Automatic Hand Sanitizer Dispenser**”, Design Patent Granted on October 2020.
- ❖ Dr.S.D.Sundarsingh Jebaseelan, Dr. G.Nagarajan, Dr. D.Godwin Immanuel, Dr. K.Vasanth, D.N.S.Ravikumar and S.Nirmalraj, “**Development of Solar Air Conditioning Systems Using Electric Power Optimization Technique**”, Docket NO:43198, CBR No. 28090.

- ❖ Dr.D.Godwin Immanuel , Dr.S.D.Sundarsingh Jebaseelan, Dr. G.Nagarajan, Dr. K.Vasanth and S.Nirmalraj, “**Solar Powered Adaptive Ventilation Control**”, Docket NO: 46294, CBR No. 30032.
- ❖ Dr. G.Nagarajan, Dr.S.D.Sundarsingh Jebaseelan, Dr.D.Godwin Immanuel, Dr. K.Vasanth and S.Nirmalraj, “**Human Wearable Thermoelectric Generator**”, Docket NO: 46296, CBR No. 30035

- **Laboratory Established**

Power Systems Lab - UG & PG (Using Mi Power V9.1)

- **Research Interest**

- ❖ Solar
- ❖ STATCOM
- ❖ Optimization Technique
- ❖ FACTS Controller
- ❖ Smart Grid.

- **Area of Interest:**

- ❖ Power system analysis
- ❖ Transmission & Distribution.
- ❖ Power system protection & switch Gear
- ❖ FACTS
- ❖ Power System operation & Control
- ❖ High voltage Engineering

- **List of Books/Book Chapters**

| S.No. | Title | Name of the Authors | Publishers | Year |
|-------|------------------------------|---|--------------------------|------|
| 1 | Basic Electrical Engineering | S.D.Sundarsingh Jebaseelan, C.N.Ravi. D.Godwin Immanuel | Sathyabama University | 2015 |

- **Salient Courses Handled**

UG

- ❖ Power System Analysis
- ❖ Flexible AC Transmission Systems (FACTS)
- ❖ Transmission & Distribution
- ❖ Power Generation & utilization
- ❖ Power System operation & Control
- ❖ Power system protection & switch Gear

- ❖ High Voltage Engineering
- ❖ Electrical Technology
- ❖ Basic Electrical Engineering
- ❖ Measurements & Instrumentation.

PG

- ❖ Flexible AC Transmission Systems (FACTS)
- ❖ Smart Grid

- **Technical Paper Published and Presented : 52 Nos**

- ❖ **Number of papers indexed in Scopus as on Apr 2022 is 25.**
- ❖ **Number of papers in Web of Science: 08**
- ❖ **Citation index of the author as in Scopus is 81**
- ❖ **H Index of the author as in Scopus is 05**
- ❖ **Google Scholar Citation Index is 52**
- ❖ **Google Scholar H Index is 05**

Book Series (Web of science / Scopus): 08

1. Sundarsingh Jebaseelan S.D., Sivachidhambaranathan V., Godwin Immanuel D., Ravikumar D.N.S., Pushpavalli M.” **Dual-Axis Solar Tracking System Using ANFIS Technique**”, Advances in Intelligent Systems and Computing,. Springer, https://doi.org/10.1007/978-981-16-1335-7_39, 978-981-16-1335-7, vol 1369 , July 2021. **(Indexed in WOS).**
2. M.Pushpavalli, P.Abirami,P.Sivagami,Sundarsingh Jebaseelan S D, Sayan Ghosh,Oruganti V V L N Karthik, “ **Analysis of Solar and Windmill Using Real Time Simulation Tool**”, EAI Springer, <http://dx.doi.org/10.4108/eai.16-5-2020.2304106> , 978-1-63190-286-4 ,January 2021
3. Rajasekaran Indra, M., Govindan, N., Divakarla Naga Satya, R.K., Somasundram David Thanasingh, S.J.,” **Fuzzy rule based ontology reasoning**”, Journal of Ambient Intelligence and Humanized Computing, Impact Factor 4.5, August 2020, **(Indexed in SCOPUS / WOS).**

4. Vasanth K, K.Kumar, G.Nagarajan, C.N.Ravi, S.D.Sundarsingh Jebaseelan, Godwin Emmanuel “**Decision Based Detail Preserving Algorithm for the Removal of Equal and Unequal Probability Salt and Pepper Noise in Images and Videos**”, International Arab journal of information Technology- (Anna University- Annexure -1), Volume 15, No. 1, January 2018.(Scopus indexed) (Web of Science indexed). (Impact factor 0.724)
5. G.Nagarajan, R.I.Minu, B Muthukumar , V.Vedanarayanan & S.D.Sundarsingh, “**Hybrid Genetic Algorithm for Medical Image Feature Extraction and selection**”, Science Direct, Procedia Computer Science 85 (2016), pp 455 – 462 (Elsevier). (Indexed in SCOPUS / WOS)
6. S.D.Sundarsingh Jebaseelan, C.N.Ravi, G.Nagarajan and S.Marlin, “**Closed loop control of FACTS Devices in Power Systems**”, Springer, Advances in Intelligent Systems and Computing, Volume 1, PP 361 – 369, 2016. (Indexed in SCOPUS / WOS)
7. G. Nagarajan, C. N. Ravi, K. Vasanth, D. Godwin Immanuel, S. D. Sundarsingh Jebaseelan “**Dual Converter Multimotor Drive for Hybrid Permanent Magnet Synchronous in Hybrid Electric Vehicle**”, Springer, Advances in Intelligent Systems and Computing, Volume 1, PP 237 – 249, 2016. (Indexed in SCOPUS / WOS).
8. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**Power Quality Improvement of Eight Bus System using TCTC**”, INTERACT-2010, Sathyabama University, pp. 186 – 188, 3-5 Dec 2010. (INDEXED IN IEEE EXPLORE & SCOPUS & WOS)

International Journal: 19

1. S.D. Sundarsingh Jebaseelan , N.B. Muthu Selvan ,C. Kumar , A. Kalaimurugan , A. Srujana , and C.N. Ravi, “ **Solving constrained economic electrical energy generation and CO2 emission dispatch using hybrid algorithm**”, Environmental Technology & Innovation, Elsevier, Volume 24, November 2021, Pages 1 to 11, IF – 5.236. <https://doi.org/10.1016/j.eti.2021.101999>
2. Kumar Chandrasekaran , Jasper John Sahayam, Sundarsingh Jebaseelan Somasundaram David Thanasingh, Sripriya Ramalingam, Hady H. Fayek, Nagananthini Ravichandran and Eugen Rusu , “ **Performance of multifunctional smart PV-based domestic distributed generator in dual-mode operation**’, Machines , 9,356, 2021, Pages 1 to 17, IF – 2.428, <https://doi.org/10.3390/machines9120356>
3. G.T Sundar Rajan, V. Sivachidambaranathan, J. Barnabas Paul Glady, A. Ramesh Babu4, Ganesan Subramanian, G Sundarsingh Jebaseelan, S. D6., Prakash NB,” **Performance Evaluation of Medium Voltage Resonant material based DC - DC Converter for Offshore Wind Farms**”, Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 4, 2021, Pages. 7950 – 7958, April 2021.
4. Waseem Sultana , S.D.Sundarsingh Jebaseelan “ **Fuzzy logic Controller to Improve Power quality of Hybrid Renewable Power Generation**”, Solid State Technology , Volume 63, Issue 6,PP 4339 – 4349, 2020

5. S.D.Sundarsingh Jebaseelan, K. vasanth, S.Jayaprakash,G.Ezhilarasi,C.N.Ravi and D.Lakshmi, “ **Performance Analysis of PV Based DC – AC Convertor for Dielectric Heating**”, Journal of Critical Reviews, ISSN 2394 – 5125,Vol 7, 10.31838/jcr.07.19.70, Issue 19,2020.
6. S.D.Sundarsingh Jebaseelan, N.Kiruthika, A.Ramesh Babu,,G.T.Sundarrajan, and A,Kalimurugan, “ **Intelligent control of Power Quality Improvement in Grid with Combined FACTS Devices**”, Journal of Critical Reviews, ISSN 2394 – 5125,Vol 7, 10.31838/jcr.07.19.293, Issue 19,2020.
7. S.D.Sundarsingh Jebaseelan, D.Godwin Immanuel, M.Kavitha, S.M. Shyni, D.N.S.Ravikumar, “**Controlling of Reactive Power in Transmission Line using Facts Technology with Closed Loop Controller**”, International Journal of Engineering and Advanced Technology, ISSN: 2249 – 8958, Volume-8 Issue-6, August 2019, pp 312 – 317. (Indexed in SCOPUS)
8. S. Ravindra Reddy and S.D. Sundarsingh Jebaseelan., “**Reactive Power Compensation and Harmonic Reduction in Controlling of Reactive Power in Transmission Line using Facts Technology with Closed Loop Controller Distribution System Using Multilevel Inverter Based Active Power Filter**”, Middle-East Journal of Scientific Research 24 (3): 937-944, 2016 , ISSN 1990-9233.
9. Raja G. and S. D. Sundarsingh Jebaseelan., “**MULTILEVEL INVERTER BASED POWER QUALITY IMPROVEMENT FOR STATCOM** ”, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608. Volume 11, Issue Number 9, May 2016, pp – 5826 – 5829. **(Indexed in SCOPUS)**
10. Nagarajan, G., Minu, R.I., Vedanarayanan, V., Sundarsingh Jebaseelan, S.D., Vasanth, K., “**CIMTEL- mining algorithm for big data in telecommunication**”, International Journal of Engineering and Technology, ISSN : 0975-4024, Vol 7, No 5, Oct-Nov 2015, pp 1709 – 1715. **(Indexed in SCOPUS)**
11. Godwin Immanuel .D, Dayana D S and Sundarsingh Jebaseelan S D, “**Hybrid Genetic Algorithm Assisted Artificial Bee Colony Approach for Voltage Stability Improvement**”, International Journal of Applied Engineering, ISSN 0973-4562, Volume 10, Number 59 (2015), pp 534 – 541. **(Indexed in SCOPUS).**
12. S.Marlin, S.D.Sundarsingh Jebaeelan and C.N.Ravi, “**Closed loop control for reactive power compensation using combined facts devices**”, ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608. Volume 10, Issue Number 21 (2015). pp – 9953 – 9957. **(Indexed in SCOPUS)**
13. R.R.Selva Yogesh and S.D.Sundarsingh Jebaseelan, “**Design and Implementation of Energy Conservation hybrid System with Fuzzy Control for DC Micro Grid System**”, International Journal of Applied Engineering, ISSN 0973-4562, Volume 10, Number 6 (2015), pp 5698 – 5704. **(Indexed in SCOPUS).**
14. S.D.Sundarsingh Jebaseelan and D.Godwin Immanuel, “**Reactive power compensation using STATCOM with PID controller**”, International Journal of Applied Engineering, ISSN 0973-4562 Volume 9, Number 21 (2014), pp 11281 - 11290 **(Indexed in SCOPUS).**

15. A.Murugan, G.Nagarajan, S.D.Sundarsingh Jebaseelan and C.N.Ravi, "**Performance Analysis of Voltage Profile, Power, Angle of injection using combined FACTS device**", International Journal of Applied Engineering, ISSN 0973-4562 Volume 9, Number 21 (2014), pp 10303 - 10316 **(Indexed in SCOPUS)**.
16. S.D.Sundarsingh Jebaseelan and Dr. R. Raja Prabu, "**Modelling and Simulation of Thirty Bus System Using Multiple STATCOM & TCTC**", European Journal of scientific Research, ISSN 1450-216X Vol.81 No.2 (2012), pp.285-297, July 2012. **(Indexed in SCOPUS).SNIP factor 0.010 and SJR factor 0.071.**
17. Manimaran and S.D. SundarSingh Jebaseelan, "**Z- source Inverter for Fuzzy logic control using Adjustable – speed Drives system**", Ciit International Journal of FUZZY SYSTEMS, Volume 4, No 3,pp 82 – 90, March 2012.
18. S.D. SundarSingh Jebaseelan and Dr. R. Raja Prabu, "**Digital Simulation of Eight Bus System using TCTC & STATCOM**", International Journal on Intelligent Electronic systems, Sathyabama University, Vol 5, No 2, pp 52 – 58, July 2011.
19. S.D.SundarSingh Jebaseelan and Dr. R. Raja Prabu, "**Digital Simulation of Thirty Bus System using TCTC & STATCOM**", Ciit International Journal of Programmable Device Circuits and Systems, Vol 3, No 12, pp 675 – 680 ,September 2011.

National Journal: 10

1. S.D.Sundarsingh Jebaseelan , M.Kavitha, D.N.S.Ravikumar , "**Fuzzy logic controller based UPFC for voltage profile improvement in a smart grid**", AIP Conference Proceedings, 2020, Sathyabama Institute of Science and Technology. **(Indexed in SCOPUS)**
2. Saleem Mohammad and Dr S.D.Sundarsingh Jeebaseelan, "**Stability ANALYSIS of Renewable Energy Sources with Hybrid Technique Integrated with Motor Drives,**" Indian Journal of Scientific Research, ISSN: 0976-2876 (Print),ISSN: 2250-0138(Online)17(2): Page 34-38, 2018 (UGC Approved Journal)
3. Abinaya.I, S.D.Sundarsingh Jebaseelan and C.N.Ravi,"**Reactive Power Compensation in Grid System using STATCOM with Closed loop Control,**" Indian Journal of Science and Technology, Vol 9(6), pp 1- 4 , February 2016. **(Indexed in SCOPUS)**.
4. Marlin.S, S.D.Sundarsingh Jebaseelan, B. Padmanabhan and G.Nagarajan, "**Power Quality Improvement for Thirty Bus system using UPFC and TCSC,**" Indian Journal of Science and Technology, Vol 7 (9), pp 1316 – 1320, September 2014. **(Indexed in SCOPUS)**.
5. M. Saravana Kumar, K. R. Prasanna and S. D. Sundarsingh Jebaseelan, "**Monitoring and Protection of Remote Area Transformers Using GSM Technology**", International Journal of Engineering Research & Technology, ISSN No: 2278-0181, Vol. 3 - Issue 2, February - 2014, pp 1393 – 1397.

6. G. Nagaraj, S. Periyarselvan , S. D. Sundarsingh Jebaseelan , G. Nagarajan and C. N. Ravi, "**Gsm Based Automatic Energy Meter Reading And Control**", Indian Stream Research Journal. ISSN No: - 2230-7850, Vol -3, Issue -9, October 2013, pp, Impact Factor 0.2105.
7. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, "**Power Quality Improvement of Fourteen bus system using STATCOM**", National Journal on Electronic sciences and systems. ISSN 0975 – 7325, June 2013, pp 15 – 23, Sathyabama University.
8. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, "**Reactive power control using FACTS devices**", Indian Stream Research Journal. ISSN No: - 2230-7850, Vol -3, Issue -2, March 2013, pp 45- 59, Impact Factor 0.2105.
9. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, "**Digital Simulation of fourteen bus system using FACTS controllers**", National Journal of Technology, ISSN 0973 – 1334, Vol. 9 No.1 Feb - 2013, pp 15- 23.
10. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, "**Five Level VSI Based STATCOM in Fourteen Bus System**", I-manager's Journal on Electrical Engineering, Vol. 6 No. 1 July - September 2012, pp 1- 5.

International Conference: 05

1. Waseem Sultana and S.D.Sundarsingh Jebaseelan," **Improved Grid Power Transmission using Solar Panel (Pv-Statcom) in Day and Night,**" IEEE International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI-2022), St. Joseph's College of Engineering, Chennai, India on 28 & 29 January, 2022, PP 1 – 4.
2. S.Marlin and S.D.Sundarsingh Jebaseelan, "**Combined Facts Devices for Reactive Power Control by Using Optimization Technique**" IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2021, St. Josephs College of Engineering, Chennai , PP 1- 4, 2021 **(INDEXED IN IEEE EXPLORE / SCOPUS)**
3. M.Pushpavalli,, V.Geetha1, Krithika K,S.D.Sundar Singh Jebaseelan,P.Sivagami, Abirami M and P. Abirami, "**Forecasting the Cloud Cover for Agronomical function Based on Real Time Valuation**" IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2021, St. Josephs College of Engineering, Chennai , PP 1- 5, 2021 **(INDEXED IN IEEE EXPLORE / SCOPUS)**
4. Rameshbabu A, , Sundarrajan G T, Godwin Immanuel D, Barnabas Paul Glady,Sundar Singh Jebaseelan S D and Muthukumar C," **MPPT Based Solar PV and Class IV Powered Brushless DC Motor for Water Pump System**", IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2021, St. Josephs College of Engineering, Chennai , PP 1- 7, 2021 **(INDEXED IN IEEE EXPLORE / SCOPUS)**
5. Rameshbabu A, Sundarrajan G T, Sundarsingh Jebaseelan S D, Dilleswararao A, Barnabas Paul Glady J and J V Sunil kumar," **Improved Dynamic Response of Boost LLC AC– DC Converter with Voltage Regulation**" IEEE International Conference on Innovative Computing,

Intelligent Communication and Smart Electrical Systems, ICSES 2021, St. Josephs College of Engineering, Chennai , PP 1- 7, 2021 **(INDEXED IN IEEE EXPLORE / SCOPUS)**

6. G.T. SundarRajan, , V. Sivachidambaranathan, , J. Barnabas Paul Glady, Ramesh Babu, **S. D. Sundar Singh Jebaseelan** and Ganesan Subramanian, ” **A Novel Design on Non-isolated High-Gain Interleaved KY- Converter with Enhanced Dynamic Performance**’, IEEE International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, ICSES 2021, St. Josephs College of Engineering, Chennai , PP 1- 7, 2021 **(INDEXED IN IEEE EXPLORE / SCOPUS)**
7. M.Jyothi Monisha, S.D.Sundarsingh Jebaseelan and G.Nagarajan, “**Hybrid Solar inverter for Grid Synchronization** ,” IEEE International Conference on Circuit, Power and Computing Technologies, ICCPCT-2015, Noorul Islam Centre for Higher Education, Kanyakumari district, pp 1-6 , year 2015 **(INDEXED IN IEEE EXPLORE / SCOPUS / WOS)**
8. K.Umadevi and S.D.Sundarsingh Jebaseelan, “**Thyristor Based IR Remote Control For Home Applications**,” International Conference on Advancements in Electrical and Electronics Engineering (ICAEEE – 2014), Government College of Engineering, Salem, pp 414 – 418, 10th - 11th March 2014.
9. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**VOLTAGE IMPROVEMENT BY USING STATCOM AND TCTC**”, ICIIOS-2013, Karunya University, pp. 2458 – 2464, 1-2 March 2013.
10. Siji .A and S.D.Sundarsingh Jebaseelan, “**Simulation & Implementation of STATCOM Using Multilevel Inverter with Reduced Number of Switches**”, ICIIOS-2013, Karunya University, pp. 487 – 494, 1-2 March 2013.
11. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**Performance of Thirty bus system with and without STATCOM**”, International conference on Trends in Electrical, Electronics and power Engineering (ICTEEP 2012), pp 87 – 91, July 15 – 16, 2012 Singapore.

National Conference: 10

1. K.A.Latha and S.D.Sundarsingh Jebaseelan “**Anfis Based Statcom For Compensation Of Reactive Power And Harmonics With Cascaded H-Bridge Multilevelinverter**”, National conference on computational intelligence in electrical and electronics engineering (NCIEEE-17), Sathyabama University, Apr 17th and 18th 2017, pp 98-104.
2. D.Godwin Immanuel and S.D.Sundarsingh Jebaseelan “**Reactive Power Support using Hybrid FACTS Controller for Voltage Constancy**”, National conference on computational intelligence in electrical and electronics engineering (NCIEEE-17), Sathyabama University, Apr 17th and 18th 2017, pp 327 -330.

3. V.Sekarsalamon and S.D.Sundarsingh Jebaseelan, “**compensation of reactive power and harmonics by chb multilevel inverter based dstatcom**”, Proceeding of 2nd National conference on computational intelligence in electrical and electronics engineering (NCIEEE), Sathyabama University, February 21st and 22nd, 2013, vol 2, pp 378 – 382.
4. Raja. P and S.D. Sundarsingh Jebaseelan, “**Implementation of Non isolated High voltage DC – DC Converters based on 3SSC and 5VMC**”, National Conference on recent advancements and applications of smart grid Technology in Power systems, Annamalai University, 09th & 10th March 2013, pp 11 – 16.
5. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**Analysis and Implementation of Eight Bus System Using STATCOM**”, National conference on Computational Intelligence Power Apparatus and Systems, CIPS 2012, 18th - 20th April 2012, SRM University, pp.181 – 184.
6. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**Simulation and Implementation of Thirty Bus System Using TCTC**”, National conference on Trends in Electronics, Instrumentation, Embedded Systems and Automation, TRENDS 12, 30th & 31st March 2012, Karunya University, pp. 28 – 32
7. S.Archana, K.Catherine Prathiba and S.D.Sundarsingh Jebaseelan, “**The Transformer Station Remote Monitoring System Based on Zigbee Network**”, National Conference on Recent trends in Engineering and Management, TECHNO - 12, IFET College of Engineering, 17th March 2012.
8. Adlin Sughni .M.G, Siji .A and S.D.Sundarsingh Jebaseelan, “**Simulation and Implementation of STATCOM using Multi level Inverter**”, National Conference on Recent advancements in power control & Drives, RAPCD – 11, Eienstien Engineering College, 25th and 26th March 2011, pp.14 – 17.
9. Dwarakanath M L and S.D. Sundarsingh Jebaseelan, “**Implementation of space vector modulation for Two – level unidirectional PWM rectifiers**”, National Conference, Annamalai University, 12th & 13th March 2011.
10. S.D. Sundarsingh Jebaseelan and Dr. R. Raja Prabu, “**Digital Simulation of Thyristor Controlled Tap changer System Using Simulink**”, National conference on Future Challenges and Budding Intelligent Techniques in Electrical and Electronics Engineering, 29th & 30th July 2010, Sathyabama University, pp. 55 – 58.

- **Administrative Works**

- ❖ Coordinated the placement Activities in the Department of EEE from the academic year 2007 – 2009.
 - ❖ Coordinated for the preparation of University Practical Exam Schedule in the Department of EEE from the Academic year 2007 – 2014.
 - ❖ Held the Position of the Counselor in the department of EEE for the Batch 2007 – 2011.
 - ❖ Held the Position of Project Panel member in the department of EEE for the Batch 2008 – 2011.
 - ❖ Held the Position of the Counselor in the department of EEE for the Batch 2011 – 2015.
 - ❖ Held the Position of the Year Coordinator in the department of EEE for the Batch 2011 – 2015 from January 2014.
 - ❖ Held the position of certificate verification for the student's batch 2015 – 2019.
 - ❖ Currently Holding the Position of the Year Coordinator in the department of EEE for the Batch 2015 – 2019.
 - ❖ Held the position of inch committee for Project report both B.E and M.E students in the department of EEE from Jan 2015 – Dec 2015
 - ❖ Currently holding the Power system Lab in charge from Jun 2015 to Till Date.
 - ❖ Had worked as Chief exam coordinator for conducting All India Sathyabama University Entrance Exam.
 - ❖ Had been part of NAAC accreditation, UGC & NBA.
 - ❖ Held the Position of Member in IQAC in our university from the year 2014 – 2016.
 - ❖ Currently holding the position in discipline committee in our University & Department from June 2016 to Till Date.
- **Social Activities**
 - ❖ Co-ordinate the programme “**Thought of the Nation**” on 8th August 2015 at Sathyabama University, Chennai.
 - ❖ Co-ordinate the programme “World Space Week” collaboration with ISRO on 5th and 6th October 2017 at Sathyabama University, Chennai.

Personal Profile

- Name : **Dr.S.D.Sundarsingh Jebaseelan M.E, Ph.D**
- Date of Birth : 22.06.79
- Father's Name : Mr. S.David Thanasingh
- Nationality/Religion : Indian/Christian

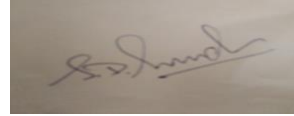
- Marital Status : Married
- Languages Known : English, Tamil
- Permanent Address : Dr. S.D.Sundarsingh Jebaseelan M.E, Ph.D
No 25, P.S.Nagar, Pudukuppam , Cuddalore - 1
- Address for communication : Dr. S.D.Sundarsingh Jebaseelan M.E, Ph.D
NO.52, G1 Raghu Sanjai Flats,
Manimagalai Street, East Tambaram,
Chennai – 59

I affirm that all the above mentioned details are true and I will perform my duties in the right spirit and attitude given a chance at your esteemed institution.

Place: Chennai

yours sincerely

Date: 16.06.2022



(S.D. SUNDARSINGH JEBASEELAN)