

## LIST OF CONFERENCE PUBLICATIONS

2020

1. Dr.R.Seyezhai, ASSP/EEE and Dr.A.Bharathi Sankar presented a paper titled, “Piezo electric driven charging supercapacitors for biomedical sensors applications” in the International conference on advanced materials chemistry at the interfaces of energy, environment and medicine, AMCI-2020 held at M.S. University, Tirunelveli during 30.1.2020. This paper received the best paper award.
2. Dr. V. Thiyagarajan, ASSP/EEE has presented the paper titled "Optimal design and Techno-economic analysis of hybrid renewable energy system with flywheel energy storage" in the 6th International Conference on Electrical Energy Systems - 2020 (ICEES 2020) organized by the department of EEE, SSN College of Engineering, Chennai during 20/02/2020 & 21/02/2020 .
3. Rama Porselvi (Part time Research Scholar) and Dr Mrunal Deshpande ASSP/EEE presented a paper titled, Genetic Algorithm Inspired Series TCSC Location For Congestion Management In Deregulated Power System ” in the International Conference on Electrical energy systems- ICEES -2020 organized by the department of EEE at SSNCE during 20/02/2020 & 21/02/2020
4. E. Oliviya Joselin Komagal and R. Ramaprabha, presented a paper titled “Diode Assisted Extended Boost Quasi Z-Source Inverter for Photovoltaic Interface”, 6th International Conference on Electrical Energy Systems (ICEES 2020), Feb 20-21, 2020 at SSN College of Engineering, India presented on 20.02.2020 by Oliviya Joselin Komagal & Ramaprabha.
5. Dr.V.Rajini, K.Kanchana, A. Anoop, presented a paper titled," Experimental investigation on the distribution of voltage at the stator winding of induction motor" at ICEES2020 , held at SSN College of Engg, during 20,21-2-2020
6. V. Kowsalya and R. Ramaprabha, presented a paper titled“Development of Low Cost PV Panel Characterization Kit using Arduino”, 6th International Conference on Electrical Energy Systems (ICEES 2020), Feb 20-21, 2020 at SSN College of Engineering, India presented on 20.02.2020 by Kowsalya & Ramaprabha..
7. T. Divya, FT-RS/EEE and Dr. R. Ramaprabha, ASSP/EEE, presented a paper titled “Comparative topological study of Embedded based Switched boost inverter”, International Conference on Emerging Current Trends in COMputing and Expert Technology (COMET 2020), pp. 37-43, March 06-07, 2020 at Panimalar Engineering College, India presented on 06.03.2020 by Divya & Ramaprabha.
8. K.Indhumathi (IIYear M.E.(PED) and Dr.R.Seyezhai, ASSP/EEE presented a paper titled, “Multi-Phase High Step-Up Interleaved Boost Converter For Auxiliary Applications” in the

International Conference on Electrical energy systems- ICEES -2020 organized by the department of EEE at SSNCE.

9. S.Devi ( Full-time research scholar) and Dr.R.Seyezhai, ASSP/EEE presented a paper titled, “Hardware Implementation of Single - Phase T- type inverter for Photovoltaic Applications” in the International Conference on Electrical energy systems- ICEES -2020 organized by the department of EEE at SSNCE.
10. Dr.R.Seyezhai, ASSP/EEE and Dr.D.Umarani, AP/EEE presented a paper titled, Simulation and Realization of Rectified Inverted Sine Hybrid Pulse Width Modulation strategy for Quasi Impedance Source Cascaded Multilevel Inverter” “The International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2020), Vellore Institute of Technology Vellore, Tamilnadu during 28.2.2020.
11. Dr.R.Seyezhai, ASSP/EEE, S.Harika ( Full-time research scholar) and Dr.A.Jawahar Prof./EEE presented a paper titled, “Investigation of Switched Capacitor Quasi Z-Source DC-DC Converter for E-Trike Battery “ in the International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2020), Vellore Institute of Technology Vellore, Tamilnadu, during 28.2.2020..
12. M.Sridhar ( Full-time research scholar) and Dr.R.Seyezhai, ASSP/EEE presented a paper titled, “Investigation on Single Stage Integrated SEPIC-Buck Boost Converter With Minimal Output Capacitance For LED Applications” in the International Conference on Electrical energy systems- ICEES -2020 organized by the department of EEE at SSNCE.
13. Dr M Pandikumar ASSP/EEE Presented paper titled "Electrical Power Generation from Mechanical Vibrations for powering a Temperature Monitoring Circuitry" at the 3rd INTERNATIONAL CONFERENCE ON ADVANCED SCIENTIFIC INNOVATION IN SCIENCE, ENGINEERING AND TECHNOLOGY (ICASISSET- 2020) held during 15th - 16th May 2020 at Bharath Institute of Higher Education and Research (Deemed to be University), Chennai.
14. Dr M Pandikumar ASSP/EEE Presented paper titled "Electrical Power Generation from Mechanical Vibrations for powering a Temperature Monitoring Circuitry" at the 3rd INTERNATIONAL CONFERENCE ON ADVANCED SCIENTIFIC INNOVATION IN SCIENCE, ENGINEERING AND TECHNOLOGY (ICASISSET- 2020) held during 15th - 16th May 2020 at Bharath Institute of Higher Education and Research (Deemed to be University), Chennai.
15. N. Ramya Krishnan (PG student/EEE), Dr. R. Ramaprabha, Asso.Prof./EEE and Dr. S. Malathy, “9- Level Multilevel Inverter Using Half Height PWM”, 3<sup>rd</sup> International Conference on Advanced Scientific Innovation in Science, Engineering and Technology (ICASISSET- 2020), May 15-16, 2020 conducted by Bharath Institute of Higher Education and Research, Chennai, India
16. Dr. R. Ramaprabha, Asso.Prof./EEE, T. Tamilselvi, PT-RS/EEE and V. Kowsalya (PG student/EEE), “Implementation of Simple Solar Array Simulator Based on Piecewise Curve

Fitting Algorithm”, 3<sup>rd</sup> International Conference on Advanced Scientific Innovation in Science, Engineering and Technology (ICASISSET- 2020), May 15-16, 2020 conducted by Bharath Institute of Higher Education and Research, Chennai, India presented on 16.05.2020 by R. Ramaprabha and V. Kowsalya through online.

17. Balamurugan B, Ashwin Kumar J, Mohan Prasaad S, Akshay K, Dr. Muthu Selvan N B, “Power Quality Based Performance Analysis of Various Converters for Speed Control of PMDC Motor”, National Conference on Computation Intelligence in Electrical and Electronics Engineering (NCIEEE -2020) organized by Department of EEE, Sathyabama Institute of Science and Technology, May 18 - 19 2020.
18. Dr. V. Thiyagarajan, Associate Professor/EEE, "New Asymmetrical 51-Level Inverter Topology" in the "2nd International Conference on Advances in Applied Engineering and Technology" organized by Syed Ammal Engineering College, Ramanathapuram during 14.5.2020.
19. Dr. V. Thiyagarajan, Associate Professor/EEE, has presented the paper titled "New Symmetric 11-Level Inverter Topology with Switching Pulse Generation Using Logic Gates" in the "2nd International Conference on Advances in Applied Engineering and Technology" organized by Syed Ammal Engineering College, Ramanathapuram during 14.5.2020.
20. Dr.N.B. Muthu Selvan, ASSP/EEE Balamurugan S, Akshay K, Ashwin Kumar J, Mohan Prasad S “Power Quality Based Performance Analysis of Various Converters for Speed Control of PMDC Motor” National Conference on “Computational Intelligence in Electrical and Electronics Engineering” (NCIEEE -2020) organized Sathyabama Institute of Science and Technology, Chennai, during 18<sup>th</sup> to 19<sup>th</sup> May, 2020. Received best paper award for the paper titled.
21. Anbuselvi M, Saravanan P ASSP/EEE and Kiruthiga S, “Design of an area efficient cryto-coding based cellular automata technique”, *National conference on Information and Communication Technologies 2020, conducted by Department of ECE, SSN college of engineering on 12.06.2020.*
22. Dr. V. Thiyagarajan, Associate Professor/EEE, "Switching Pulse Generation Using Digital Logic Circuit for 7-Level Symmetric Inverter" International Conference on “Recent Advances in Mechanical, Civil and Electrical Engineering(ICRAMCE – 2020)" organized by St. Martin’s Engineering College, Secunderabad on 20/06/2020.
23. Dr. R. Ramaprabha, Asso.Prof./EEE, V. Aadhaan, K. Arun and V. Arun (UG students), “Implementation of 15 – level Cascaded H-H-T Multilevel Inverter”, E-Conference on Advancements in Science and Technology - (E-CAST2020), June 22, 2020 conducted by PSNA Engineering College, Dindigul, India presented by UG students through online. Received Best Paper Award.
24. Dr. R. Ramaprabha, Asso. Prof./EEE, R. Akshitha Blessy, R. Lekhashree and P. Meenakshi (UG students), “Design of Converter- Inverter for Hybrid Solar Integrated AC Microgrid System”, E-Conference on Advancements in Science and Technology - (E-CAST2020), June

- 22, 2020 conducted by PSNA Engineering College, Dindigul, India presented by UG students through online.
25. Dr. R. Ramaprabha, Asso.Prof./EEE, M. Aishwarya, N. Divyasri and S. J. Indhra Pooja (UG students), "Solar Powered Compact Dustbin", E-Conference on Advancements in Science and Technology - (E-CAST2020), June 22, 2020 conducted by PSNA Engineering College, Dindigul, India presented by UG students through online.
  26. Dr. R. Ramaprabha, Asso.Prof./EEE, N. Abhishek, R. Aswinkumar and G. Balaji, "Effect of Supercapacitors in Standalone Solar PV System", E-Conference on Advancements in Science and Technology - (E-CAST2020), June 22, 2020 conducted by PSNA Engineering College, Dindigul, India presented by UG students through online. Received Best Paper Award.
  27. Dr.R.Seyezhai, ASSP/EEE , S.Madhumitha, II Year CSE , R.Sudiksha, II Year EEE, Dr.D.Umarani, AP/EEE & Dr.R.Sujatha, ASSP/Mathematics , "Reliability Assessment Of Single-Phase Quasi Z-Source Inverter For Photovoltaic Application",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, ), June 22, 2020.This paper received the BEST PAPER AWARD.
  - 28.
  29. Dr.R.Seyezhai, ASSP/EEE , S.Swetha R.Ramya , S.Shanmughapriya (III year EEE, B), "Single Phase On-Board Charger For Plug-In Electric Vehicles",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.This paper received the BEST PAPER AWARD.
  - 30.
  31. Dr.R.Seyezhai, ASSP/EEE , S.Swetha R.Ramya , S.Shanmughapriya (III year EEE, B), "Single Phase On-Board Charger For Plug-In Electric Vehicles",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.This paper received the BEST PAPER AWARD.
  - 32.
  33. Dr.R.Seyezhai, ASSP/EE & S.Harika , "Implementation Of Switched-Capacitor Quasi Z-Source Dc-Dc Converter For E-Trike",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020. This paper received the BEST PAPER AWARD.
  - 34.
  35. Pavendan K T (P.G.Student) and Balaji.M (Associate Professor/EEE ) presented a paper on "Performance Evaluation of 6/4 Switched Reluctance Motor" in E-conference on Advancements in Science and Technology organised by PSNA college of Engineering and Technology on 22nd June 2020 .
  36. Karthika M (P.G.Student) and Balaji.M (Associate Professor/EEE ), "Modeling and Simulation of Segmented Rotor Switched Reluctance Motor" in E-conference on Advancements in Science and Technology organised by PSNA college of Engineering and Technology on 22nd June 2020 .
  37. VIGNESHWAR.S.T (passed out P.G.Student) and Balaji.M (Associate Professor/EEE), "Performance Investigation On Segmented Rotor Switched Reluctance Motor With Non-

Oriented Electrical Steel" in E-conference on Advancements in Science and Technology organised by PSNA college of Engineering and Technology on 22nd June 2020 .

38. Dr.R.Seyezhai, ASSP/EEE , A. Sowmya N. Ramakrishnan S. Purushothaman(III year EEE, B) presented a paper titled, "Design of DC-DC Converter For Electric Vehicle",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.This paper received the BEST PAPER AWARD.
39. Dr.R.Seyezhai, ASSP/EE & Dr.A.Bharathi Sankar , ASSP/VIT University, Chennai presented a paper titled, "Analysis and Development of SiC MOSFET Boost Converter as Solar PV Pre-regulator",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.
40. Dr.R.Seyezhai, ASSP/EE & Dr.M.Tamilarasi(passed out full-time scholar) presented a paper titled, "Design, Analysis And Implementation Of Four Phase Interleaved Boost Converter For Fuel Cells",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.
41. Dr.R.Seyezhai, ASSP/EEE ,Vishalini Mariswari, Josh Susinth.J (II Year ECE), Divyashree.D., Divya Bharathi.S (II year EEE, B) presented a paper titled, "Investigation of PV Based Dc-Dc Buck Converter for Wireless Sensor Network Nodes ",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020
42. Dr.R.Seyezhai, ASSP/EE K.Soundarya (II year M.E(PED) presented a paper titled, "Implementation of Positive Output Quadratic Boost Converter for Photovoltaic Applications",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.
43. Dr.R.Seyezhai, ASSP/EE K.Indumathi (II year M.E(PED) presented a paper titled, "Implementation and Reliability Analysis of Tri-State Interleaved Boost DC-DC Converter",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.
44. Dr.R.Seyezhai, ASSP/EEE S.Sridhar, Srikirthi (III year EEE, B) presented a paper titled, "Electrolytic capacitor less AC-DC converter",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.
45. Dr.R.Seyezhai, ASSP/EEE Heera N Mathangi Srinivasan, Keerthana P(IV year EEE, A) presented a paper titled, "Design and Implementation of an AC-DC Converter for Off Board Charger of Electric Vehicle",in the E-Conference on Advancements in Science & Technology, organized by PSNA College of Engineering and Technology, Dindigul, June 22, 2020.

46. EEE/INCP/1 :Dr.R.Seyezhai,ASSP and S.Devi( Full-time research scholar) presented a paper titled, "Investigation of Single - Phase T- type inverter for reduction of Total Harmonic Distortion in the Output Voltage Virtual International Conference on "AI and ML Applications in Smart Buildings" (AMSB2020) held on July 23rd to July 24th 2020 at VIT Chennai, India".
47. EEE/INCP/2 Dr. R. Ramaprabha, ASSP/EEE and G. Ramya, "Global MPP Tracking for Partial shaded PV System using Fractional Order Extreme Seeking controller", Virtual Conference on Recent Trends on Renewable Energy, Smart Grid and Electric Vehicle Technologies (RESGEVT20), July 09, 2020 conducted by VIT, Vellore, India presented by Dr. R. Ramaprabha through online.
48. EEE/INCP/3 E.Oliviya Joselin Komagal, PG Student/EEE and Dr. R. Ramaprabha, ASSP/EEE, "Simulation and Analysis of An Extended Boost Topology of Z-Source Inverter suitable for PV", Virtual Conference on Recent Trends on Renewable Energy, Smart Grid and Electric Vehicle Technologies (RESGEVT20), July 09, 2020 conducted by Vellore Institute of technology (VIT), Vellore, India presented by E. Oliviya Joselin Komagal through online.
49. EEE/INCP/4 M.Augustein (Part time,Research Scholar), M.Karthika (PG Student), M.Balaji(ASSP/EEE) and V.Kamaraj( Prof & Head,EEE) presented a paper "Nonlinear Modeling and Performance Analysis of Segmented Rotor Switched Reluctance Motor" at the International Virtual Conference on Recent trends on Renewable Energy, Smart Grid, and Electric Vehicle Charging, organised by VIT VELLORE on 09.07.2020.
50. EEE/INCP/5 M.Augustein (Part time,Research Scholar), M.Karthika (PG Student), M.Balaji(ASSP/EEE) presented a paper " Performance analysis of 6/5 segmented rotor switched reluctance motor" in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020 and received best paper award.
51. EEE/INCP/6 Pradheep.S , Ramyabharathi.T , Suruthi.S (Third year UG students) , M. Balaji (ASSP/EEE) presented a paper ," DESIGN AND DEVELOPMENT OF SMART IRRIGATION SYSTEM USING IOT "in 6th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020.
52. EEE/INCP/7 Preeti naidu kodidala, Surekha B,Vishnu priya SS,Gayathri N (Final year UG students), M. Balaji (ASSP/EEE) presented a paper ," DESIGN AND DEVELOPMENT OF SMART IRRIGATION SYSTEM USING IOT "in 6 th International Conference on Science, Technology, Engineering and Management [ICONSTEM - 2020] organized by Jeppiaar Engineering College on 15.7.2020.

53. EEE/INCP/8 Dr. V. Thiyagarajan, ASSP/EEE, presented the paper titled "Switching Pulse Generation for Multilevel Inverters Using Flip-Flops" in the International Conference "Future Innovations and Research Challenges in Renewable Energy Systems 2020" organized by Bharath Institute of Higher Education and Research, Chennai on 10/07/2020.
54. EEE/INCP/9 Dr. V. Thiyagarajan, ASSP/EEE, presented the paper titled "Analysis of New Cascaded Multilevel Inverter Topology with Reduced Switch Count" in the International Virtual Conference on "AI And MI Applications in Smart Buildings (AMSB2020)" organized by School of Electrical Engineering, VIT University, Chennai on 23/07/2020.
55. EEE/INCP/10 Dr.V.S.Nagarajan, ASSP/EEE, Dr.M.Balaji, ASSP/ EEE and Dr.V.Kamaraj, Professor and Head, EEE along with Sarvesh Krishna K,Shruthi Kamakshi R,S.Shrimathy,V.Shreemathy (3rd year students), presented a paper titled "Electromagnetic Analysis of Synchronous Reluctance Motor with various Cold Rolled Non – Oriented Silicon Steel Grades", at the International E-Conference On Challenges And Opportunities In Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2020), organized by EEE Department, SRM Easwari Engineering College, Chennai.
56. EEE/INCP/11 Dr.M.Balaji, ASS/ EEE and Dr.V.S.Nagarajan, ASSP/EEE, along with Shivani K, Suryanarayana P S, Senthil V, Sai Santhosh G V (3rd year students), presented a paper titled "Design and Analysis of Fuzzy Logic Based Speed Controller for DC Motor", at the International E-Conference On Challenges And Opportunities In Renewable Energy, Smart Systems And E-Mobility (ICCORSE- 2020), organized by EEE Department, SRM Easwari Engineering College, Chennai.
57. 1 EEE/INCP/12 Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Switching Pulse Generation Using Logic Gates for Asymmetric 11-Level Inverter" in the 2nd International Conference on Applied Science, Engineering, Pharmacy & Management ICAEPM-2020 organized by IIRM-SDT, Andhra Pradesh on 09/08/2020. This paper received the BEST PAPER PRESENTATION AWARD.
58. 2. EEE/INCP/13 Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled " Small Signal Stability Analysis of Multimachine System With DFIG Based Wind Turbine" in the First Virtual International Conference on Renewable Energy Systems (ICRES2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 26/08/2020-28/08/2020.
59. 3. EEE/INCP/14 Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "A New Reduced Switch Count Asymmetric 75-Level Inverter Topology" in the First Virtual International Conference on Renewable Energy Systems (ICRES2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 26/08/2020-28/08/2020.
60. 4. EEE/INCP/15 Dr. R. Ramaprabha, ASSP/EEE and G. Ramya, "Implementation of Fractional Order Extreme Seeking controller MPPT for Partial shaded PV System" TEQIP III sponsored international conference on Advances in modeling, control and optimization of electrical systems (ICAES 2020) on August 12 & 13, 2020 conducted by department of EEE, Pondicherry Engineering College, Department of Electrical and Electronics Engineering,

Pondicherry Engineering College, Puducherry. Presented by Dr. R. Ramaprabha through online mode on 13/08/2020.

61. 5. EEE/INCP/16 M.Karthika (PG Student), M.Augustein (Part time,Research Scholar), M.Balaji(ASSP/EEE) presented a paper titled "Neural Network Based Modeling of Segmented Rotor Switched Reluctance Motor" in International Conference on Advances in modeling, control and optimization of Electrical Systems (ICAES 2020) organised by Pondicherry Engineering College Puducherry on August 12,2020.
62. 6. EEE/INCP/17 Dr.R.Seyezhai, ASSP/EEE and R.Indumathy ( II Year M.E.(PED) presented a paper titled, "Simulation and Analysis of High Step up Two- phase Interleaved Boost Converter for Auxiliary Power Unit in the Virtual International Conference on Advances in modeling, control and optimization of Electrical Systems(ICAES 2020) organized by Department of EEE, Pondicherry Engineering College, Puducherry 12.8.2020.
63. 7. EEE/INCP/18 Dr.R. Seyezhai,ASSP/EEE and M.Tamilarasi (Full-time research scholar) presented a paper titled, "Design ,Analysis and Implementation of Four-Phase Interleaved Boost Converter for Fuel Cells " in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.
64. 8.EEE/INCP/19 Dr.R. Seyezhai,ASSP/EEE and J.Anto Sheeba (Part-time research scholar) presented a paper titled, "Examination and Analysis of Supply Current Control Strategies for Boost Flyback PFC Converter" in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.
65. 9. EEE/INCP/20 Dr.R. Seyezhai,ASSP/EEE, Dr.D.Umarani,ASSP/EEE, Dr.R.Sujatha,ASSP/Mathematics and S.Madhumitha (III Year CSE ), R.Sudiksha (III Year EEE, B) presented a paper titled, "Reliability Examination of Single-phase Quasi Z-source Inverter for PV Applications" in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 26.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.
66. 10.EEE/INCP/21 Dr.R. Seyezhai,ASSP/EEE, S.Sridhar (IV Year EEE B), S.Srikirthi (IV Year EEE, B) S.Swetha (IV Year EEE,B) and M.Sridhar ( Full-time research scholar) presented a paper titled, "Investigation on Single-stage Electrolytic capacitor less AC-DC LED Driver" in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 27.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.
67. 11. EEE/INCP/22 Dr.R. Seyezhai,ASSP/EEE, S.Purushothanam (IV Year EEE B ), A.Sowmya (IV Year EEE, B) N.Ramakrishnan (IV Year EEE,B) and S.Harika ( Full-time research scholar) presented a paper titled, "Design and Implementation of Boost-Buck DC-DC Converter for Battery Charging Applications" in the First Virtual International Conference on Renewable Energy Systems ICRES2020 on 28.8.2020 organized by Department of EEE,SSN College of Engineering, Kalavakkam.
68. Mrunal Deshpande, Manish Kumar J, Leela Charumathi M, Nitesh Krishna V K , Dhilip Vignesh M S (IV Yr EEE) presented a paper, "Energy Generation Using Pv Panel For Home

Appliances”, Virtual National Conference on Recent Trends in Power and Energy Engineering Sept 17 and 18, 2020

69. R.Ramaporselvi, Dr.G.Geetha Mohan, Dr.Mrunal Deshpande presented a paper, “Reducing Congestion Cost In The Multi Area Interconnected Deregulated Power System By Price Area Congestion Management”, Virtual National Conference on Recent Trends in Power and Energy Engineering Sept 17 and 18, 2020
70. Dinesh Ram Kumar Murugan (Student), Nishanth T (Student), Chandru B(Student), Abinaya V(Student), Dr. R. Rengaraj(ASSP/EEE), Dr. G. R. Venkatakrishnan (ASSP/EEE) presented a paper "Implementation of Modified Differential Evolution Algorithm for Hybrid Renewable Energy System" at the Virtual National Conference on Recent trends in Power and Energy Engineering, organised by Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam on 17.09.2020
71. Dr.R.Seyezhai, ASSP/EEE, Dr.D.Umarani, ASSP/EEE, D.Meenapriya, S.Pavitra & Nandhini Priya ( Passed out UG Batch) “Implementation of Solar Docking Station for Smart Phones”, in the Virtual National Conference on Recent Trends in Power and Energy Engineering (RTPEE - 2020) organized by the Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai on 17.9.2020.
72. Dr. R. Ramaprabha, ASSP/EEE, S. J. Indhra Pooja, M. Aishwarya and N. Divyasri, UG students/EEE, “Design and Implementation of Solar Powered Compact Dustbin”, Proceedings of the Virtual National Conference on “Recent Trends in Power and Energy Engineering - 2020”, page no. 19, .September 17-18, 2020, Sri Sivasubramaniya Nadar College of Engineering, Chennai presented by S. J. Indhra Pooja UG student through online
73. Tiwari Rahul (PG student/EEE), Nagarajan V S(ASSP/EEE) and V.Kamaraj( Prof &Head,EEE) presented a paper "Sensitivity Analysis and Design Methodology using Geometrical Parameters of a Ferrite Assisted Synchronous Reluctance Motor" at Virtual National Conference on Recent Trends in Power and Energy Engineering - 2020 (RTPEE - 2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17-18 September, 2020.
74. Nagarajan V S(ASSP/EEE),V.Kamaraj( Prof &Head,EEE), Sreemugi R (UG student, EEE), Rahul S Iyer(UG student, EEE), Rishi S P(UG student, EEE) and Srivatsan G (UG student, EEE) presented a paper " Electric Vehicle Technology - A Review on Motors, Power Converters and Batteries" at Virtual National Conference on Recent Trends in Power and Energy Engineering - 2020 (RTPEE - 2020) organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17-18 September, 2020.
75. Dr. V. Thiyagarajan, ASSP/EEE, R. Mirdula, (II Year/EEE), V. K. Praveena, (II Year/EEE), M. Sanjana, (II Year/EEE) and V. Vaishnavi (II Year/EEE) presented the paper titled "A K-

Type 13-Level Inverter Topology With Minimum Switch Count" in the Virtual National Conference on "Recent Trends in Power and Energy Engineering - 2020" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17/09/2020-18/09/2020.

76. Dr. V. Thiagarajan, ASSP/EEE, Roshan Darran R, (II Year/EEE), Vallabagurunath M, (II Year/EEE) and Rufus Derrick R (II Year/MECH) presented the paper titled "Smart Street Light Automation" in the Virtual National Conference on "Recent Trends in Power and Energy Engineering - 2020" organized by Sri Sivasubramaniya Nadar College of Engineering, Chennai during 17/09/2020-18/09/2020.
77. Suruthi.S, Surya.A, Vivitha.S.U(UG Students), and Krishnaveni.S (ASSP/EEE) presented a paper, "Analysis of A Modified Two Switch Buck Boost Converter", at the Virtual National Conference on Recent Trends in Power and Energy Engineering – 2020, organized by Sri Sivasubramaniya Nadar College Of Engineering, Chennai on 17.9.2020.
78. V. Ramya, Dr. R. Ramaprabha, ASSP/EEE and Dr. M. Balaji, ASSP/EEE "Optimization of Specific Energy of Flywheel Using Differential Evolution and ANSYS Magnetic Software for Composite Material", 1<sup>st</sup> Virtual International Conference on Renewable Energy Systems (ICRES-2020) during Aug 26-28, 2020, Department of EEE, SSN College of Engineering. – Presented by Dr. R. Ramaprabha & Dr. M. Balaji on Aug 27, 2020
79. Dr. V. Thiagarajan, ASSP/EEE, presented the paper titled "Digital Logic Circuit Technique based Switching Pulse Generation for Symmetrical 13-Level Inverter" in the Virtual International Conference on Frontiers in Smart Computing System Technologies (ICFSCST - 2020) organized by Scientific Society Group, Chennai during 03/09/2020-05/09/2020.
80. Venkatakrisnan G R (ASSP/EEE), Rengaraj R(ASSP/EEE), Adithya Pillai R (Student), Abinandhan R (Student), Dev Ganesh S (Student), Aravind K (Student) presented a paper titled "Identification of Underground Faults using Internet of Things (IoT)" at the second International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO) - 2020, organised by Consilio Intelligence Research Lab in collaboration with Jaypee University of Engineering & Technology, Guna, MP & Student branch of JUET, Computer Society of India, held at Panjim, Goa, India on October 24-25, 2020
81. Dr. V. Thiagarajan, ASSP/EEE, has presented the paper titled " Comparative Analysis of Recently Developed 9-level Symmetrical Inverter" in the "Virtual International Technical Conference on Control in Electric Vehicles and Smart Grid with Renewable Energy Synergies (VIT-CES-RES)" organized by VIT University, Chennai during 29/10/2020 - 30/10/2020.
82. Dr.V.Rajini, Saiprasanna, shridhana, rathish kumar, Vishnu Menon,published a paper titled," A Solid-State Transformer Based Hybrid Wind Energy Flywheel Wind Energy System" at international conference ICARSES 2020 at SRMIST on dec 3-5, 2020

83. Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Switching Pulse Generation Using Logic Gates for Symmetric 9-Level Inverter" in the International Conference on "Advances in Science and Technology for Betterment of Health, Environment and Energy" organized by GITAM University, Bangalore on 03/12/2020.
84. Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Comparative Analysis of Recently Proposed Extendable Type Inverter Topologies" in the International Conference on "Advances in Science and Technology for Betterment of Health, Environment and Energy" organized by GITAM University, Bangalore on 03/12/2020.
85. Roshan Darran R (II year/EEE), Vallabagurunath M (II year/EEE), Rufus Derrick R (II year/Mech), Dr. V. Thiyagarajan, ASSP/EEE, has presented the paper titled "Automatic Smart Streetlight System Using Arduino " in the International Conference on "Advances in Science and Technology for Betterment of Health, Environment and Energy" organized by GITAM University, Bangalore on 03/12/2020.