PROFILE

N.STALIN

No: 2,1st Block, 20th Street,

NIT Quarters.

National Institute of Technology, Trichy.

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EDUCATION

Doctor of Philosophy (Ph.D.) in Department of Chemical Engineering (CEESAT), NIT, Trichy

Thesis Title: 'Studies on Performance Analysis of Self Circulating Biogas Plant'

National Institute of Techniology, Trichy. (Completed on 12th March 2009) Advisor Prof. H.J.Prabhu

Master of Technology (M.Tech.) in Energy Engineering, REC (NIT), Trichy.

(2001-2003). I class with Distinction, 87.3% (8.73 CGPA)

Bachelor of Technology (B.Tech.) in Chemical Engineering, Bharathidasan University, Trichy.

(1995-1999). I class,74.03%

AWARDS AND HONOURS

- Received and Awarded Certificate of Appreciation for producing 100% results in Process Equipment Design I, Design II and NGE, Process Economics, ECM, PUP subjects in the year 2020-2021.
- Received and Awarded Certificate of Appreciation for producing 100% results in CFD & PUP subjects in the year 2018-2019.
- Received FIRST PRIZE IN BEST PRESENTATION AND PARTICIPATION in the AICTE FDP Conducted by PSG College of Technology, Dec 2017, Coimbatore.
- Received BEST PAPER Award in the international conference conducted by Pondicherry Engineering Engineering college (Jan 2007), Pondicherry.
- Received Best Teacher Award 2008.
- Received Two times Cash award Rs.5000 for produced 100% result in the semester exam conducted by the DOTE 2007-2008.

TEACHING EXPERIENCES

As an Assistant Professor in Anna University Tiruchirappalli from 2nd Sep 2009 to Till date
Subjects Teaching for PG: Advanced Heat Transfer, Optimum Utilization of Heat and Power, Power
plant Technology, Nuclear Hydel and other power plants, Renewable Energy System, Cogeneration
and waste heat recovery, Fans Blowers and Compressors, Design of refrigeration systems, for
M.E.(Thermal)/M.Tech (Energy).

Heat Transfer, Fluid Mechanics for B.E (PT) students.

UG: Equipment Design and Drawing II, Design of pressure vessels and piping, Combustion and Furnace Design, Natural Gas Engineering, Petroleum Unit Processes, Process Economics, Energy Conservation and Management

Lab: Energy Audit Equipment Lab, ASPEN & HYSIS, Pro simulation Lab, Petroleum Product Testing, Process Equipment Design and Drawing II

RESEARCH EXPERIENCES



Research Associate, Center for Energy & Environmental Science And Technology (CEESAT), National Institute of Technology, Trichy from Jan 2003 to May 2006.

MEMBERSHIP

- Life member in Indian society for Technical Education from 2016
- Life member in Indian Indian Science Congress from 2008
- Member in society of Petroleum Engineers SPE
- Life member in Institution of Engineers India (IEI) from 2010

PUBLICATIONS

PAPERS PUBLISHED

INTERNATIONAL JOURNAL PUBLICATIONS

- Vivekanadan.R,Dr.Stalin N," Optimization Of Design Parameters In Shell And Tube Heat Exchanger Using Aspen HYSYS" International journal of advanced research in science, communication and technology (IJARSCT),IF = 7.30 , DOI: 10.48175/IJARSCT-10982 Available online Volume 3, Issue 16, May 2023.
- Mingming Zhang, Moslem Paidar, Stalin Narayanasamy, Azlan MohdZain "Impact of multiple FSP passes on structure, mechanical, tribological and corrosion behavior of AAA6061/316 stainless-steel reinforced AI matrix composites" International journal of Surface and Coatings, Elsevier, SCI, IF = 4.865, Available online 18 August 2022, 128801. https://doi.org/10.1016/j.surfcoat.2022.128801
- 3. Sundeep.Siddulaa , **N. Stalin** , C R Mahesha " Triangular and Single Slope Solar Stills: Performance and Yield Studies with Different Water Mass" International journal of Energy Reports,(2022),SCI,IF = 5.13. © 2022 The Authors. Published by Elsevier Ltd.
- Mohamad Reda A. Refaai, Stalin Narayanasamy, V. Chittaranjan Das, D. V. S. S. S. V. Prasad, N. Nalini, Subash Thanappan, "Mechanical Properties of Ramie/Hemp Hybrid Composites Influenced by Stacking Arrangement and NaOH Treatment", *Advances in Polymer Technology*, vol. 2022, Article ID 8737669, 9 pages, 2022. https://doi.org/10.1155/2022/8737669
- Lei Zhang, N. Stalin, Ngo Tran, Sadok Mehrez, "Development of high-efficient double-layer microwave absorbers based on 3D cabbage-like CoFe2O4 and cauliflower-like polypyrrole" International journal of ceramics, Volume 48, Issue 11, 1 June 2022, Pages 16374-16385. SCI, IF = 4.527. https://doi.org/10.1016/j.ceramint.2022.02.188
- 6. **Stalin, N**., Shobhanadevi, N. Studies on thermal, structural, and compositional properties of agrowaste jute fiber composite reinforced with cardanol resin. *Biomass Conv. Bioref.* (2021). https://doi.org/10.1007/s13399-021-01958-0 SCIE, IF = 4.987. https://rdcu.be/cUiRJ.
- Chitrakala, G, Stalin. N & Mohan, V, "Normally Bypassed Cascaded Sources Multilevel Inverter with RGA Optimization for Reduced Output Distortion and Formulaic Passive Filter Design", Journal of Circuits, Systems, and Computers (JCSC), vol. 29, no. 2, 2020. Accepted. IF = 2.333 (SCIE and Scopus Indexed) https://doi.org/10.1142/S021812662050019X
- R. Murali, N. Stalin & P. Ravikumar (2019) Performance studies and emission analysis of azolla and corn husk biogas powered dual fuel mode compression ignition engine, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 41:22, 2808-2820, DOI: 10.1080/15567036.2019.1576076, SCI, Scopus Indexed, IF = 2.902.
- 9. Chitrakala, G, **Stalin, N** & Mohan, V, "A Segmented Ladder Structured Multilevel Inverter for Switch Count Remission and Dual-Mode Savvy", Journal of Circuits, Systems, and Computers (JCSC), vol.

- 27, no. 14, pp. 1850223 (1-14), Dec. 2018. (SCIE and Scopus Indexed), IF = 2.333. https://doi.org/10.1142/S0218126618502237
- P.Sudharson, N.Stalin 2018 "Design And Performance Evaluation Of Shell And Tube Heat Exchanger In Automotive Engine Using O₃ Filter, Journal of Web Engineering, Vol. 17, No.6 (2018) 2568-2578 July 2018 SCIE, Scopus Indexed, IF = 1.59
- 11. S. Jayanthi, N. Stalin, and S. Sutha 2018, "Internet Of Things (IoT) Based Generous Transformational Optimization Algorithm (GTOA) For Hybrid Renewable Energy System Synchronization And Status Monitoring", International Journal of Wireless Personal Communications, https://doi.org/10.1007/s11277-018-5279-3, 13 Feb 2018 SCIE, Scopus Indexed, IF = 1.671
- 12. AL. Mayilvahanan, N. Stalin, and S. Sutha 2017 "Improving Solar Power Generation And Defects Detection Using A Smart IoT System For Sophisticated Distribution Control (SDC) And Independent Component Analysis (ICA) Techniques", International Journal of Wireless Personal Communications J. Comput. Theor. Nanosci. 2017, Vol. 14, No. 11 5215–5225, 2017. doi:10.1166/jctn.2017.6871. SCIE, Scopus Indexed, IF = 1.671
- 13. S. Jayanthi , N. Stalin, and S. Sutha 2017, "Augmented Blossom Fertilization Algorithm Based Optimization for Isolated Power Systems" International Journal of Computational and Theoretical Nanoscience Vol. 14, 5963–5971, 2017. SCIE, Scopus Indexed, IF = 1.42
- 14. AL. Mayilvahanan, N. Stalin, and S. Sutha, 2017, "Performance Enhancement of Photovoltaic Systems Using Dynamic Rule Soft Switching Controller Based Maximum Power Point Tracker" International Journal of Computational and Theoretical Nanoscience Vol. 14, 5215–5225, 2017. SCIE, Scopus Indexed, IF = 1.42.
- 15. G. Chitrakala, N. Stalin and V. Mohan, 2017, "A Novel Programmed Low Frequency PWM Method for Performance Enhancement of Single-Phase to Single-Phase Cycloconverter" CIIT International Journal Of Digital Image Processing Volume 9, No 2, February 2017 pp. 39-46. IF 0.652.
- 16. V. Mohan, G. Chitrakala, N. Stalin, 2017, " A Low Frequency PWM Based Multilevel DC-Link Inverter with Cascaded Sources " International Journal of Asian Journal of Research in Social Sciences and Humanities Vol. 7, No. 1, January 2017, pp. 686-697.
 SJIF= 5.161.
- 17. N. Shobanadevi, V. Krishnamurty and **N. Stalin**, 2016 "Voltage Stress Analysis of cascaded Quasi Impedance Source Network Based DC/DC Converter Using SB Control" I J C T A, 9(25), 2016, pp. 633-646. **Scopus Indexed**, **IF = 8.40**.
- 18. Shobanadevi Nagarajan, Krishnamurty Venkatachalapathy, Stalin Narayanasamy 2016, " A Simple Boost Shoot through Control for Single phase Quasi ZSI DC-DC Converters Based on Voltage Doubler Rectifier" International Journal of Przegląd Elektrotechniczny, ISSN 0033-2097, R. 91 Nr/2015. Scopus Indexed, IF =0.38.
- 19. Saravanan KK, **Stalin N**, Sree Renga Raja T 2016, "Design and Investigation of Grid Connected Current Source Inverter for Photovoltaic System", International Journal of Advanced Engineering Technology (Anna University recommended Journal: Updated List of Journals 2016), ISSN 0976-3945 vol. 7 no.2 pp.280-284. **Scopus Indexed**, **IF = 3.43**.
- 20. N. Shobanadevi, V. Krishnamurty and N. Stalin, 2016 "PISB Control of Single Phase Cascaded Quasi ZSI DC-DC Converter" Middle-East Journal of Scientific Research 24(5): 1700-1707, 2016 ISSN 1990-9233. Scopus indexed, IF=0.36

- 21. Saravanan KK, **Stalin N**, Sree Renga Raja T 2016, "Design of Single-Phase Seven Level Grid-Connected Inverter Using Solar System", Asian Journal of Research in Social Sciences and Humanities.(Anna University recommended Journal: Updated List of Journals 2016, Accepted for publication in November 2016 Issue). **Scopus Indexed**, **IF = 0.676.**
- 22. Saravanan KK, **Stalin N**, Sree Renga Raja T 2016,"Simulation of New Multi-Input Three Level DC-DC Converter", Transylvanian Review. (Anna University recommended Journal: Annexure-I, Accepted for publication). **Scopus Indexed, IF = 0.08.**
- 23. Saravanan KK, **Stalin N**, Sree Renga Raja T 2016," Performance Analysis on Photo Voltaic System Stability for Grid Connected Load", Brazilian Archives of Biology and Technology –BABT.(Anna University recommended Journal: Annexure-I, **Scopus Indexed**, **IF = 0.546**.
- 24. Gajendran T and **Stalin N**, "Purification and flux decline of protein solution using series model through modified cellulose acetate ultra-filtration membrane" Research Journal of Chemistry and Environment, Vol. 19 (6) June (2015) Res. J. Chem. Environ **Scopus Indexed**, **IF = 0.38**.
- 25. Mohan, V, **Stalin, N** & Jeevananthan,S, 'A double random pulse width modulation based on discrete carrier frequencies and random pulse position for induction motor drives', International Journal of Applied Engineering Research, vol. 10, no. 51, pp. 479-484, 2015. **Scopus Indexed, IF=1.8233.**
- 26. V.Mohan, **N.Stalin** and S.Jeevananthan, "A Tactical Chaos based PWM Technique for Distortion Restraint and Power Spectrum Shaping in Induction Motor Drives", Intl. Journal of Power Electronics and Drive System, Vol.5, No.3, pp. 383 392, Feb 2015. **Scopus Indexed**, **IF=1.08**.
- 27. Saravanan KK, Stalin N 2015," Design of three Phase Fifteen level Cascaded Multilevel Inverter using Embedded Controller", International Journal of Applied Engineering Research (Anna University recommended Journal: Annexure-II, Version 2014.2), ISSN 0973-4562 vol.10 no.72 pp.437-443. Scopus Indexed, IF= 0.15.
- 28. Saravanan KK, **Stalin N**, Satthiyaraj S 2015,"Analysis of Fault-Current Limiting Scheme for the Micro grid", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.10 No.72 (2015), pp.269-274. **Scopus Indexed**, **IF= 0.15**.
- 29. Saravanan KK, **Stalin N**, Annandharaj R 2015,"Design and Analysis of Bidirectional Isolated LLC Resonant Converter", International Journal of Applied Engineering Research, ISSN 0973-4562 vol. 10 no.51, pp.330-335. **Scopus Indexed**, **IF= 0.15**.
- 30. Elankurisil SA, Saravanan KK, **Stalin N**, Mahendra Peruman P 2015," Investigation on Full Bridge and Coupled Inductor ZVS DC-DC Converter Fed PMDC Motor", International Journal of Applied Engineering Research ISSN 0973-4562 volume 10, number 9, pp. 24407-24422. **Scopus Indexed**, **IF= 0.15**.
- 31. Saravanan KK, **Stalin N**, Jayasuthahar ST 2013,"Review of Renewable Energy Resources in Clean Green Environment", International Journal of Emerging Trends in Electrical and Electronics (IJETEE) vol. 1, issue. 1, pp.54-58. **Scopus Indexed, IF= 3.84.**
- 32. V.Mohan, **N.Stalin,** S.Jeevananthan, "A Tactical Chaos based PWM Technique for Distortion Restraint and Power Spectrum Shaping in Induction Motor Drives' International Journal of Power Electronics and Drive System (IJPEDS) Vol. 5, No. 3, February 2015, pp. 383~392. **Scopus Indexed, IF= 1.062**
- 33. Gajendran T and **Stalin N** "Performance studies of polyether sulfone ultra filtration membrane for fruit juice concentration and purification" Research Journal of Biotechnology Vol. 9(12) December (2014) Res. J. Biotech, pp 7-13. **Scopus Indexed, IF= 0.29**

- 34. M.Kodeeswararamanathan and **N.Stalin** "Mathematical modeling approach for solutions in power consumption issues of Tamil Nadu" Journal of Chemical and Pharmaceutical Sciences JCHPS Special Issue 4: December 2014, pp44-47. **Scopus Indexed**, **IF=1.421**
- 35. M.Kodeeswararamanathan and **N.Stalin** "To provide suitable technological menu to avert outages of electric power ridden sectors for improving the economic developments of Tamil Nadu" Journal of Chemical and Pharmaceutical Sciences JCHPS Special Issue 4: December 2014 pp62-64. . **Scopus Indexed**, **IF=1.421**
- 36. **Dr.N.Stalin**. Energy Management and Integration of PEM Fuel Cell with UAV for Pharmaceutical Application, International journal Nanobio Pharmaceutical Technology, Elsevier 2014 volume 1, page 52-61. **Scopus Indexed**, **Elsevier Book chapter**.
- 37. **Dr.N.Stalin**. Energy Conservation Opportunities in Paper Plant using Combined Heat and Power for Pharmaceutical Application, International journal Nanobio Pharmaceutical Technology, Elsevier 2014 volume 1, page 61-73. **Elsevier Book chapter**.
- 38. M.Kodeeswararamanathan, **Dr.N.Stalin**. "Grid connected load mismatching situation between power supply and power demand review of the problematic effects and analysis for unique needs in particular reference to Tamilnadu". Applied Mechanics and Materials Vols. 592-594 (2014) pp 2365-2373 © (2014) Trans Tech Publications, Switzerland. **Scopus Indexed**, **IF= 0.26**.
- 39. N.Shobanadevi, Dr.V.Krishnamurthi, **Dr.N. Stalin** "Quasi Impedance Source Single Phase Inverter Based FB DC-DC Converter with Zero Voltage Switching" Australian Journal of Basic and Applied Sciences, June 2013, **Scopus Indexed**, **IF= 0.786**
- 40. Arun kumar, N. Lakshmi Praba, **Dr. N. Stalin** "A Novel Technique to Detect Macular Edema Based on Motion Patterns" International Journal of Advanced Research in Computer Science Engineering and Information Technology Volume-1: Issue-1 Jan 2013, **IF= 0.426**
- 41. Arun Nadh, N. Lakshmi Praba, **Dr. N. Stalin** "Communication system with sensors for monitoring of Induction motors in Domestic and Industrial Environments. International Journal of Advanced Research in Computer Networking, Wireless and Mobile Communications Volume-1: Issue-3 July 2013.pp.1-7.
- 42. R.Vnaja, N.Lakshmi Prabha, **Dr. N. Stalin**,(2013).Efficient Architecture for SPIHT Algorithm in Image Compression, International Journal of Advanced Research in VLSI Volume-1:Issue-1 JAN 2013,pp.1-7.
- 43. S. Anju, N. Lakshmi Prabha, **Dr. N. Stalin**,(2013).Smart Building Automation through Wireless Sensor Networks Using Zigbee, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 7, July 2013.pp.196-200.
- 44. **Dr.N.Stalin**, Saravanan.K. "Review of Renewable Energy Resources in Clean Green Environment" International Journal of Emerging Trends in Electrical and Electronics (IJETEE), Vol. 1, Issue. 1, March-2013.pp.54-58.
- 45. **Stalin, N**.; Prabhu. HJ. Effect of Microbial growth on Self circulating biogas plant using carrier materials International ARPN Journal of Engineering and Applied Sciences, Volume 2, September 2007,pp.8-11. **Scopus Indexed, IF= 0.46.**
- 46. **Stalin, N**.; Prabhu. HJ. Performance test of IC engine using Karanja bio-diesel blending with diesel, International ARPN Journal of Engineering and Applied Sciences, Volume 2, September 2007,pp.32-34. **Scopus Indexed, IF= 0.46.**

- 47. **Stalin, N**.; Prabhu.H.J. "Performance Evaluation of a Partial Mixing Anaerobic Digester" ARPN International Journal of Engineering and Applied Sciences Volume 2, June, 2007, pp.1-6. **Scopus Indexed, IF= 0.46.**
- 48. **Stalin, N**.; Sridevi.P (2007). Design of an Evaluation Model for mid-size car segment using a DSS Framework, International Journal of Applied Management and Technology, volume, issue 2, May 2007, pp.32-37. **IF= 0.16.**
- 49. **Stalin**, N.; Prabhu. HJ. "Performance Evaluations of Self Circulating Biogas Plant, Applied Management and Technology, Volume 5, Issue 1, May 2007, pp.64-75. **IF= 0.16.**
- 50. **Stalin, N**.; Prabhu. H.J. "Performance Evaluations of partial mixing Digester, International journal of energy research, Volume 5, Issue 1, May 2007, pp.64-75. **Scopus Indexed, IF= 2.598.**

(ii) National Journals:

- 51. N. Shobanadevi1, V. Krishnamurty and **N. Stalin, 2016**, "PISB Control of Single Phase Quasi Impedance Source DC-DC Converter" Indian Journal of Science and Technology, Vol 8(13), 55446, July 2015. ISSN (Online): 0974-5645. **Scopus, IF= 0.97**.
- 52. **Stalin, N**. Prabhu. HJ. Design of community bio gas plant for biogas generation Journal of Research & Development, Vol 4, 2006, pp.29 33.

INTERNATIONAL CONFERENCE

- Dr. N. Stalin, March 12-13, 2021G." Design and Performance Evaluation of Shell and Tube Heat Exchanger in Automotive Engine Waste Heat Recovery System" International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment (RTAMGESE-Online), NIT, Trichy. March 12-13, 2021G.
- 2. Ms. Jerlin Deno J S, Dr. N. Stalin, March 12-13, 2021G." Performance evaluation of bio dispersants in crude oil adsorption" International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment (RTAMGESE-Online), NIT, Trichy. March 12-13, 2021G.
- 3. Ms. Jerlin Deno J S, Dr. N. Stalin, CHEMCON 2020 Presented a paper on "Coir pith as Adsorbent" 28/12/2020 the Bhubaneswar Regional Centre of IIChE and CSIR Institute of Minerals and Materials Technology, Bhubaneswar in association with Institute of Chemical Technology.
- 4. Dr. **N. Stalin**, 2019." Design and Performance Evaluation Automotive Engine Attached with CHP System and O₃ Filter in Engine Exhaust" XIII International Conference on Applied Research in Engineering and Management Sciences, 17th August 2019, Bencoolen, Singapore.
- Dr.N.Stalin " A Novel Programmed Low frequency PWM Method for Performance Enhancement of Single Phase to Sigle Phase Cycloconverter" 24/02/2017, TEQIP II sponsored International Conference ICCPEAT 2017 conducted by PEC, Pondicherry.
- KK.Sravanan, DR.N.Stalin. "Modelling and Analysis on Photo Voltaic System Stability for Grid Connected Load". 4th International Conference on Engineering Technology and Science, Namakkal, 2017.
- KK.Sravanan, DR.N.Stalin. "Modelling and Simulation Analysis of Power Cables For Matrix Converter Fed Induction Motor Drive (MCIMD)". Modelling and Simulation Analysis of Power Cables For Matrix Converter Fed Induction Motor Drive (MCIMD), 2016.
- **8.** KK.Sravanan, **DR.N.Stalin**. "Simulation of New Multi-Input Three Level DC-DC Converter". International Conference on Innovative Research in Electrical Sciences Nagapattinam, 2016.

- KK.Sravanan, DR.N.Stalin. "Design & Analysis of Bidirectional isolated LLC resonant Converter".
 International Conference on Innovative Research in Electronics Engineering Sciences 2015
 Nagapattinam, 2015.
- 10. **DR.N.Stalin**. "Energy Conservation Using CHP in Power Systems". International Conference on Green Technology for Environment Pollution Prevention and Control, NIT, Trichy 2014.
- 11. T.Gajendran, **DR.N.Stalin**. "Studies of flux decline for cellulose acetate/Low cyclic dimer poly sulfone polymer ultra filtration membrane using resistance in series model". International Conference on Green Technology for Environment Pollution Prevention and Control, NIT, Trichy 2014.
- 12. **DR.N.Stalin**. "Energy Management and Integration of PEM Fuel Cell with UAV for Pharmaceutical Application". Innovations and future research Dimensions on Nanobio Pharmaceutical Technology 7-8 October 2014, Trichy.
- **13. DR.N.Stalin**. "Energy Conservation Opportunities in Paper Plant using Combined Heat and Power for Pharmaceutical Application". Innovations and future research Dimensions on Nano bio Pharmaceutical Technology 7-8 October 2014.
- **14.** M.Kodeeswararamanathan, **N.stalin**. "Grid connected load mismatching situation between power supply and power demand review of the problematic effects and analysis for unique needs in particular reference to Tamilnadu". International Conferences NIT Trichy ICGTEPC 2014 volume 1 page 312.
- 15. **N.Stalin.** "Performance evaluations of thermal power generation". International Conferences NIT Trichy ICGTEPC 2014 volume 1 page 313.
- **16.** Reshma Mohan, N. Lakshmi Praba, **Dr. N. Stalin** "Reduced Power Flip Flop Design For Clock Distribution Networks" March 2013.
- **17.** Sudha, N. Lakshmi Praba, **Dr. N. Stalin** "A Build-In-Self-Test Approach for Error Detection And Data Recovery Architecture In H.264/AVC" April 2013.
- **18.** S.Anju, N. Lakshmi Praba, **Dr. N. Stalin** "Building Lighting Automation Trough Wireless Sensor Network using zigbee" April 2013.
- **19.** Arun Nadh, N. Lakshmi Praba, **Dr. N. Stalin** "Zigbee based wireless sensor Network for the monitoring of Induction Motor Parameters" Feb 2013.
- **20.** Reshma Mohan A S, N. Lakshmi Praba, **Dr. N. Stalin** "Reduced Power Flip Flop Design For Clock Distribution Networks" March 2013.
- **21.** Reshma Mohan A S, N. Lakshmi Praba, **Dr. N. Stalin** "Reduced Power Flip Flop Design For LC Resonant Clock Distribution Networks" Feb 2013.
- **22.** S. Arun kumar, N. Lakshmi Praba, **Dr. N. Stalin** "Automatic System for Macular Edema Detection" Feb 2013.
- **23.** Arun Nadh, N. Lakshmi Praba, **Dr. N. Stalin** "Zigbee based wireless sensor Network for the monitoring of Induction Motor Parameters" Feb 2013.
- **24.** S.Anju, N. Lakshmi Praba, **Dr. N. Stalin** "Building Lighting Automation Trough Wireless Sensor Network using zigbee" March 2013.
- **25.** R.Vanaja, N. Lakshmi Praba, **Dr. N. Stalin** "FPGA Implementation of pipe lined Architecture for SPIHT Algorithm" March 2013.
- 26. K.K.Saravanan, Ms.S.Rajalakshmi, Dr. N.Stalin, Dr.S.Titus, "NEW ZERO CURRENT TRANSITION PWM DC/DC CONVERTER WITHOUT CURRENT STRESS", IEEE -

- International Conference On Advances In Engineering, Science And Management (ICAESM -2012) March 30-31, 2012Pp.566-570.
- 27. K.K. Saravanan, Dr.N.Stalin, Ms.S.Rajalakshmi and G. Giftson Samuel," Recent trends in renewable energy resources-HYDROGEN FUEL CELL,"IEEE International Conference On Advances In Engineering, Science And Management (ICAESM -2012) March 30- 31, 2012, pp.586-589.
- 28. K.K.Saravanan, Dr.N.Stalin, S.Rajalakshmi, G.Giftson Samuel, POWER ELECTRONICS GENESIS, TRENDS AND IMPROVEMENT,"IEEE International Conference On Advances In Engineering, Science And Management (ICAESM -2012) March 30, 31, 2012, pp.595-599.
- 29. Saravanan, K.K; **Stalin.N, Sreerengaraja.T**,; Power Quality and EMC in smart Grid" IEEE international conference on Advances in Engineering and Technology(ICAET 2011), May 27-28, 2011.
- 30. Saravanan, K.K; **Stalin.N**, Sreerengaraja.T,; Moon a future Renewable Energy Sources" IEEE international conference on Advances in Engineering and Technology(ICAET 2011), May 27-28, 2011.
- 31. K.K. Saravanan, Dr.T.SreeRanga Raja, Dr.N. Stalin and R. Anandaraj , "Moon A Future Renewable Energy Source", ISBN 978-1-4507-6433-9 © 2011 Published by the Coimbatore Institute of Information Technology, May 27-28, 2011
- 32. K.K. Saravanan, Dr.N. Stalin, Dr.T.Sree Ranga Raja and G. Giftson Samuel," Power Quality and EMC in Smart Grid", ISBN 978-1-4507-6433-9 © 2011 Published by the Coimbatore Institute of Information Technology, May 27-28, 2011
- 33. **Stalin, N**.; Prabhu. HJ. Emission and Economics of Biogas, International conference organized by Kongu Engineering College, Perundurai, Erode.
- 34. **Stalin, N.**; Subramanian .P. Combined light and Heat AICTE-ISTE sponsored short- term training programme on "Emerging Energy Technologies" conducted by CEESAT, NIT, and Trichy
- 35. **Stalin,N.**; Combined Heat and Power in NITT hostel" in AICTE- ISTE sponsored short term training Programme on "Emerging trends in Energy Management and Non Conventional Energy" conducted by CEESAT, NIT, and Trichy.
- 36. **Stalin, N.**; Biogas generation from waste resources" in Rajiv Gandhi Renewable energy day celebration conducted by DRDA, Thanjavur.
- 37. **Stalin, N**.; "Co- Generation & Energy management in industry" in AICTE-ISTE sponsored Induction training Programme on "Hybrid Energy Systems" conducted at PMCTW, Vallam, Thanjavur.
- 38. **Stalin, N**.; Prabhu. HJ. "Studies on Performance Evaluation of Self Circulating Biogas Plant, International conference conducted by Pondicherry Engineering College, 2007.
- 39. **Stalin, N**.; Prabhu. HJ. Energy conservation and management", International conference Organized by AIM, Thanjavur.2007
- 40. Stalin, N.; Prabhu. HJ. COPYRIGHTS, International conference Organized by AIM, Thanjavur.2007
- 41. **Stalin, N**.; Prabhu. HJ. Bio-gas yield Analysis on Solid Wastes from Potato Processing by Anaerobic Treatment, International Conference organized by SIT, Madurai.

NATIONAL CONFERENCE:

 Stalin, N.; Prabhu. HJ. "Sugarcane Leaf – Bagasse Gassifiers for Industrial heating Applications", National Conference conducted by PCET, Coimbatore.

- 2. Stalin, N.; Prabhu. HJ. Energy conservation using combined Heat and Power a CHP potential in Indian Industries", National Conference organized by SREC, Coimbatore.
- 3. Stalin, N.; Prabhu. HJ. Operating Parameters on Biogas production from dairy farm waste water", National Conference Conducted by SRM University, Chennai.
- 4. Stalin, N.; Prabhu. HJ. "A system approach to biogas Technology", National conference Conducted by SIT, Madurai.
- 5. Stalin, N.; Prabhu. HJ. "Production of L-Asparaginase from corn flour MTCC 1752 Statistical analysis of parameter", National Conference Conducted by KEC, Perundurai.
- 6. Arun Nadh, N. Lakshmi Praba, Dr. N. Stalin "Embedded System with Wireless Sensor Network for the speed and torque Monitoring in Induction Motor" March 2013.
- 7. Arun kumar, N. Lakshmi Praba, Dr. N. Stalin "Motion Pattern Based Detection of Diabetic Macular Edema" March 2013.
- 8. Arun kumar, N. Lakshmi Praba, Dr. N. Stalin "A Novel Technique to Detect Macular Edema Based on Motion Patterns" March 2013.
- 9. Reshma Mohan A S, N. Lakshmi Praba, **Dr. N. Stalin** "Reduced Power Flip Flop Design For Clock Distribution Networks" March 2013.
- S.Anju, N. Lakshmi Praba, Dr. N. Stalin "Building Lighting Automation Trough Wireless Sensor Network using zigbee" Feb 2013.
- 11. R.Vanaja, N. Lakshmi Praba, Dr. N. Stalin "FPGA Implementation of pipe lined Architecture for SPIHT Algorithm" Feb 2013.
- 12. Sudha, N. Lakshmi Praba, Dr. N. Stalin "A Build-In-Self-Test Approach for Error Detection And Data Recovery Architecture In H.264/AVC" March 2013.
- 13. Sudha, N. Lakshmi Praba, Dr. N. Stalin "A Build-In-Self-Test Approach for Error Detection And Data Recovery Architecture In H.264/AVC" April 2013.
- 14. Arun Nadh, N. Lakshmi Praba, Dr. N. Stalin "Automatic speed and torque monitoring in Induction motors Using ZigBee and SMS" March 2013.
- 15. Muthu Kumar, K.; Stalin, N.; Pv Cell based Parallel Connected Diode-Clamped Multi-Level Spwm inverter for industrial Load, MNRE Sponsored National Conference, OEC, Trichy. 16-17 July 2010.
- 16. Muthu Kumar, K.; Stalin, N.; Pv Cell based PWM inverter for Industrial Drives.MNRE Sponsored National Conference, OEC, Trichy.16-17 July 2010.

PROJECTS;

SI.No	TOPIC	PROJECT ID	SPONSORED	AMOUNT
			AUTHORITY	
1	Integrated capture and	IDEATN007638	MSME	15 lakhs
	Conversion of CO ₂ to		Govt. of India	
	Methane			

SI.No	Topic	Project ID	Sponsoring	Amount and year
			Authority	
1	Reclamation of used engine oil	CHE – 197	TNSCST	7500 & SPS 2022
	by Lab Scale Method			
2	Pilot model study for combined	EME-1054	TNSCST	7500 & SPS 2022

heat and power application in		
sugar plant		

PATENT DETAILS: Total Numbers: 3

1. Australian Patent – Granted

Invention Title	Inventive optimization tactics to diminish harmonic distortion in component count waned normally bypassed cascaded sources multilevel inverter
Patent Application type	Innovation
Patent Number	2021101990
Application Filing Date	2021-04-16
Inventors & Applicants	
G.Chitrakala	Professor, Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu-611002, India.
V.Mohan	Professor, Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu-611002, India.
N.Stalin	Assistant Professor, Department of Petrochemical Technology, UCE-BIT Campus, Anna University, Tiruchirappalli, Tamilnadu-620024, India.
S.Jeevananthan	Professor, Department of Electrical and Electronics Engineering, Pondicherry Engineering College, Puducherry, India.

2. Indian Patent - Published

Invention Title	Design of component count reduced dual-mode segmented ladder-structured multilevel inverter
Publication Number	42/2020
Publication Date	16/10/2020
Publication Type	INA
Patent Number	202041043814
Application Filing Date	08/10/2020
Inventors & Applicants	
G.Chitrakala	Associate Professor, Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu-611002, India
V.Mohan	Professor, Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College, Nagapattinam, Tamilnadu-611002, India.
N.Stalin	Assistant Professor, Department of Petrochemical Technology, UCE-BIT

3. Australian patent - Granded

SL.NO	PATENT TYPE &	Title of Invention	Name of patentees	Year of published
	Patent number			
3	Australian Patent	A Bat source string succored	Chitrakala.G	28/07/ 2021
	&	Serrated H - Bridge Symmetrical	Mohan.V	
	2021104665	MLI for solar PV Grid Integration	Stalin.N	
			Jeevanantham.S	

PhD Completed Under My Guidance:

Sl.No	Name of the Scholar	Registration	Topics	Year of
		Number		Completion
1	G.Chitrakala	16243597182	Distortion reduction, components count	Dec 2020
			waning and conduction path curbing	
			options in multilevel inversion.	
2	R.Murali	1214279744	Preparation of Bio composite from	Oct 2020
			cashew nut shell and operational	
			emission characteristics of Azolla-Corn	
			husk biogas powered diesel engine.	
3	N. Lakshmiprabha	20113012007	Investigations and performance	May 2019
			enhancement of transformer less photo-	
			voltaic inverter	
4	S.Jayanthi	2010S3012003	Novel optimization techniques and	Dec 2018
			design of high performance isolated	
			power systems for smart grid	
			applications.	
5	A.L.Mayilvahanan	2010S3012004	Development of novel maximum power	Sep 2018
			point tracking techniques for solar	
			power applications	
6	K.K. Saravanan	20113012003	Design and Investigation of grid	Feb 2018
			connected converter for solar	
			photovoltaic power generation.	
7	N.Sobanadevi	20093062006	Cascaded quasi impedance source	Feb 2018
			network based DC-DC converter and	
			voltage stress analysis using SB control	
8	M.Kodeeswara	20096032003	Contingency planning to continuous	
	Ramanathan		supply in constrained power resources	Dec 2015
			in particular reference to Tamilnadu.	
9	T.Gajendran	2010S6012003	Performance Studies of polymer	Nov 2015
			membrane materials using modifiers for	

			fruit juice concentration and protein purification.	
10	V.Mohan	20093012012	Perform Enhancement of AC-DC-AC	Oct 2015
			converter systems.	

PHD SCHOLARS DOING UNDER MY GUIDANCE:

SI.No	Name of the Scholar	Registration Number	Guide/Co guide
1	Mrs.R.Srilasri	18232591333	Guide
2	Mr.R.Vivekanandan	21145597141	Guide

Details of past Experience

Name and address of the Institution /		Period of service	
Organization	Post held	From	То
ANNA UNIVERSITY- BIT,TIRUCHIRAPPALLI	ASSISTANT PROFESSOR	02-09-2009	Till Date
SONA COLLEGE OF TECHNOLOGY,SALEM	ASSISTANT PROFESSOR	21-03-2009	31-08-2009
KONGU ENGINEERING COLLEGE,ERODE	LECTURER	27-06-2007	20-03-2009
PERIYAR MANIAMMAI COLLEGE OF TECHNOLOGY FOR WOMEN	SENIOR LECTURER	01-06-2006	26-06-2007
NIT ,TRICHY	RESEARCH ASSOCIATE	02-01-2003	31-05-2006
PSB POLY TECHNIC,CHENNAI	LECTURER	01-06-1999	21-06-2001

BOOK AUTHORED

SI.No	Title of the Book	Authors	Publishers	Year and Month of
				Publications
1	ASPEN HYSIS STEADY STATE	Dr N Stalin & Dr M	Petrochemical	July 2016
	TRAINING MANUAL	Rengasamy	Technology	
2	Energy and Environmental	Dr N Stalin	Petrochemical	ISBN:9788192112862
	Engineering	Dr.M.Arulmozhi,	Technology	Nov 2014
		Dr.M Rengasamy,		
3	Energy and Environmental	Dr.P.Subramanian	REC Trichy	Jan 2006
	Engineering Text Book	Mr.N.Stalin	CEESAT	

Book Chapters Authored: 2 Nos

SI.No	Book Title	Paper Title	Authors	Book	Publishers	Month and
			of the	Chapter		year of
			Chapter	Authored		Publications
1	NANOBIO	Energy Conservation	Dr .N.	Dr. P.	ELSEVIER	July 2014
	PHARMACEUTICA	Opportunities in Paper	Stalin	Selvamani		
	L TECHNOLOGY	Plant using Combined				
		Heat and Power for				
		Pharmaceutical				
		Application				
2	NANOBIO	Energy Management	Dr. N.	Dr. P.	ELSEVIER	July 2014
	PHARMACEUTICA	and Integration of PEM	Stalin	Selvamani		
	L TECHNOLOGY	Fuel Cell with UAV PA				

M.Tech PROJECTS GUIDED

S.NO	REGISTER NO.	NAME	NAME OF PROJECT TITLE	YEAR	
01	01109548006	GOVINDARAJ B	ENERGY MANAGEMENT AND INTEGRATION OF PEM FUEL CELL WITH UAV	Apr-11	
02	01109548002	ANN RUFUS A	ENERGY AUDIT OF ELECTRICAL UTILITIES IN INDIA CEMENTS LTD	Apr-11	
03	01110548020	THANGAPANDIAN M	STUDY AND PERFORMANCE ANALYSIS OF FANS AND BLOWERS	Oct-11	
04	01110548011	RAJKUMAR G	ENERGY SUBSTITUTION USING RENEWABLE ENERGY SOURCES	Oct-11	
05	01110548012	RAMARAJIV R	STUDY AND PERFORMANCE ANALYSIS OF WATER HEAT RECOVERY SYSTEM USING RECUPERATOR AND REGENERATOR	Oct-11	
06	01110548010	RAJIV V	STUDY OF EMERGING ENERGY TECHNOLOGY	Oct-11	
07	01110548010	RAJIV V	ENERGY AUDITING NATIONAL COOPERATIVE SUGAR MILLS LIMITED	Jul-12	
08	01110548011	RAJKUMAR G	ENERGY AUDITIMG IN PERFORMANCE CHEMICALS AND LUBRICANT PLANT	Jul-12	
09	01110548012	RAMARAJIV R	PERFORMANCE ANALYSIS OF THERMAL UTILITIES IN NCTPS	Jul-12	
10	810011527002	ANANTHAKUMAR S	EFFECT OF FEED HEATING SYSTEM ON POWER PLANT EFFICIENCY	Dec-12	
				12	

11	810011527010	GOWTHAM D	STUDY AND DESIGN OF IKW SOLAR POWER PLANT	Dec-12
12	810011527 017	VIJAYABHASKAR J	STUDY AND DESIGN OF 2KW SOLAR AND WIND HYBRID POWER SYSTEM	Dec-12
13	810011527015	PAVENTHAN M	STUDY ON REDUCTION IN AUXILLARY POWER CONSUMPTION BY USING VARIABLE FREQUENCY DRIVES (VFD)	Dec-12
14	810011527010	GOWTHAM D	ELECTRICAL ENERGY AUDIT IN ADIPARASAKTHI ALLOY STEELS (P) LTD	Jul-13
15	810011527 017	VIJAYABHASKAR J	ELECTRICAL AND THERMAL AUDIT IN DOSHIBA JSW TURBINE AND GERATOR (P) LTD	Jul-13
16	810011527015	PAVENTHAN M	UTILISATION OF RENEWABLE ENERGY BY USING SOLAR PUMBING SYSTEM IN TPS-I EXPANSION	Jul-13
17	810011527002	ANANTHAKUMAR S	ENERGY EXERGY ANALYSIS OF 210 MW BOILER IN THOODUKUDI POWER STATION	Jul-13

CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM REFRESHER COURSE ATTENDED

S.NO	NAME OF THE PROGRAMME	TYPE OF	DATE	VENUE
		PROGRAMME		
1.	Two Weeks Professional Training On	Industrial Training,	03/07/2023 to	Institute Of
	Chemical Process Engineering – ASPEN	Coimbatore	17/07/2023	ChemE Design
	HYSYS at Institute Of ChemE Design And			And
	Development, Coimbatore.			Development,
				Coimbatore.
2.	4-Week Faculty Induction/Orientation	PMMMNMTT	23/04/2023 to	Online
	Programme For "Faculty In		22/05/2023	
	University/College/Institute Of Higher			
	Education" at Teaching Learning Centre,			
	Ramanujan College, University of Delhi.			
3.	1-Week Faculty Development Programme	PMMMNMTT	27/03/2023 to	Online
	on " ACADEMIC RESEARCH WRITING"		02/04/2023	
	at Teaching Learning Centre, Ramanujan			
	College, University of Delhi.			
4.	2-Weeks Refresher Course On "Managing	PMMMNMTT	11/03/2023 to	Online
	Online Classes And Cocreating MOOCS		25/03/2023	
	24.0" at Teaching Learning Centre,			
	Ramanujan College, University of Delhi.			
5.	Curriculum Development Processes	NITTTR,	25/04/2022 to	Online
	Conducted by Curriculum Development	Chandigarh	29/04/2022	

T		Г		
	Centre Department from 25/04/2022 to 29/04/2022 (One Week) at NITTTR, Chandigarh			
6.	Participated in the Online Training Programme on "Heating, Ventilation and Air Conditioning" Conducted by this Institute from 21.03.2022 to 25.03.2022 (One Week)	NITTR Chennai	21.03.2022 to 25.03.2022	Online
7.	Five day online FDP AICTE FDP on " Inculcating Universal Human Values in Technical Education"	AICTE sponsored	3/01/2022 to 07/01/2022	AICTE online
8.	Two Weeks - Industrial Training Programme on plastics processing and Testing	CIPET Madurai sponsored	10-22 June 2021	CIPET Madurai Online Mode
9.	AICTE Training And Learning (ATAL) Academy Online FDP on "Green Technology & Sustainability Engineering	AICTE	15/03/2021 to 19/03/2021	School of Energy & Environmental Management.
10	AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Storage"	AICTE	22/02/2021 to 26/02/2021	Malaviya National Institute of Technology Jaipur.
11.	AICTE Training And Learning (ATAL) Academy Online FDP on "Alternate Fuels	AICTE	08/12/2020 to 12/12/2020	University College of Engineering, Anna University.
12	Three Weeks Industrial Training on Mechanical Engineering Applications in Telecom Industry	BSNL Trichy sponsored	08/06/2020 to 26/06/2020	BSNL, Trichy
13	12 weeks equal to 2 weeks NPTEL online course on Non Conventional Energy Resources	IIT Madras	Jan-Api 2020	IIT Madras
14	14 days Faculty Development Program on Innovations & Entrepreneurship	EDII Ahmadabad, DST, NSTEDB, GOI	25/11/2019 to 07/12/2019	EGS Pillay Engg College,Nagapatti nam
15	Industrial Visit The Travancore Cochin- chemicals Ltd, Kerala	Industrial Visit	15/09/2019 to 17/09/2019	The Travancore Cochin-chemicals Ltd, Kerala
16	Waste to Energy Conversion	IIT Roorkee,	Feb-April 2019	Nptel online
17	Two weeks faculty development programme on " Application of Nano Technology in Solar Systems"	MHRD	26/11/2018 to 08/12/2018	NIT, Trichy
18	AICTE Sponsored FDP for students	AICTE	27/08/2018 to	PEC, Chennai

Induction Programme		29/08/2018	
19 ME- 6502 Heat and Mass Transfer	CFR Chennai	18 – 24 June	UCE Villupuram
	sponsored	2018	
20 IC – 6501 – Control Systems	CFR Chennai	15 – 21 May	UCE – BIT
	sponsored	2018	campus,Trichy
21 Potential and challenges for integrating	AICTE Sponsored	3-16 Dec 2017	PSG College of
renewable energy for smart city	FDP		Technology,
implementation			Coimbatore
22 Implications of Chemical and Biological	TEQIP II Sponsored	22 nd June to 5 th	BIT, Trichy
Sciences in Biotechnology (ICBSB-16)	FDP	July 2016	
23 Advanced technologies for societal	TEQIP II Sponsored	6 th to 19 th June	BIT, Trichy
applications (ATSA'16)	FDP	2016	
24 Process Instrumentation Dynamics and	FDP	14 th to 20 th Dec	Anna University,
Control		2015	Chennai
25 Thermal Engineering Applications for	FDP	15 th to 28 th	BIT, Trichy
Sustainable Improvement		June 2015	
26 Nanotechnology Applications in	TEQIP II Sponsored	6 th to 19 th May	BIT, Trichy
Engineering and Technology	FDP	2015	
27 Comprehensive Approach of	TEQIP II Sponsored	16 th to 2 ^{9th} April	BIT, Trichy
Biotechnological Application	FDP	2015	
28 Quality Initiatives in Technical and Higher	National Workshop	22 nd to 24 th Oct	Engineering Staff
Educational Institution		2013	College of India,
			Hydrabad
29 Numerical Method and Optimization	TEQIP II Sponsored	19 th to 26 th Aug	BIT, Trichy
Techniques in Mechanical Engineering	FDP	2013	
30 ME 2251-Heat and Mass Transfer	FDP	17 th to 24 th Dec	BIT, Trichy
		2012	
31 Energy Conservation and Management	TEQIP Sponsored	4 th to 17 th	NIT, Trichy
	Orientation	June 2012	
	Programme		
32 ISTE FDP on Heat Transfer	ISTE Sponsored	29 th Nov to 10 th	IIT, Mumbai
	FDP	Dec 2011	
33 National Seminar on Swarm Intelligence	AICTE Sponsored	19 th to 20 th Dec	Kongu
	National Seminar	2007	Engineering
			College,
34 Energy Conservation Measures for	Short Term Course	10 th to 14 th Dec	NIT, Trichy
Measuring and Processing Industries		2007	
35 Multiphase Flow and Process Industries	Workshop	24 th March 2007	NIT, Trichy
36 Recent Advancement in Logistics and	Short Term Course	12 th to 16 th	NIT, Trichy
Supply Chain Management		March 2007	
37 Fuzzy Systems	Workshop	24 th to 25 th Feb	NIT, Trichy

			2007	
38	Recent Advancements in Environmental Engineering	Short Term Course	19 th to 23 rd Feb 2007	NIT, Trichy
39	Recent Advances in Environment Safety and Energy Management	Training Programme	5 th to 9 th Feb 2007	NIT, Trichy
40	What Every Engineer should know about Telecommunication and Networking	Workshop	3 rd Feb 2007	NIT, Trichy
41.	Finite Element Method for Engineers	Workshop	1 st and 2 nd Feb 2007	NIT, Trichy
42	Laser Materials Processing	Workshop	9 th and 10 th Jan 2007	NIT, Trichy
43	94 th Indian Science Congress	Training Programme	3 rd to 7 th 2007	Indian Science Congress Kolkata
44	Recent Advances and Challenges of Biotechnology Processes	Workshop	15 th and 16 th Dec 2006	NIT, Trichy
45	Instrumental Methods of Thermal Analysis and Data Interpretation	Training Programme	25 th Nov 2006	NIT Trichy
46	Global Business and Policy Modeling	International Conference	21 st and 22 nd Sep 2006	AMIM, Thanjore
47	Safety Hazard and Risk Assessment in Process Industries	Workshop	15 th July 2006	NIT, Trichy
48	Molecules of Living Things	AICTE Sponsored Staff Development Programme	19 th June to 3 rd July 2006	PMCTW, Thanjavur
49	Hybrid Energy Systems	AICTE Sponsored Induction Training Programme	29 th May to 11 th June 2006	PMCTW, Thanjavur
50	Renewable Energy-Energy of the Future	Workshop	20 th Aug 2005	NIT, Trichy
51.	Small Hydro Power Projects	Workshop	22 nd and 23 rd April 2005	NIT, Trichy
52	Environment Awareness and Pollution Impact	AICTE National Conference	27 th Nov 2004	NIT, Trichy
53	Emerging Energy Technologies	Training Programme	17 th to 28 th May 2004	NIT, Trichy
54.	National Seminar on Copy Rights	National Seminar	23 rd April 2004	Annamalai University.

15. CONFERENCES/WORKSHOPS/SEMINAR ORGANISED

 Conducted 2 weeks INDUCTION PROGRAMME – SCHEDULE FOR I YEAR UG (FROM 08.11.2021 TO 20.11.2021), UCE-BIT Campus, Trichy.

- 2. Organized Two day National level webinar entitled on "Dynamic Simulation Applications in Chemical Processing Industries" on 14 & 15 th September 2021 at 11.00 AM to 12.00 PM.
- 3. Conducted 2 weeks induction Training programme for first year from 11/11/2020 to 22/11/2020.UCE-BIT Campus, Trichy.
- 4. Organized one day National level webinar entitled on "Overview of Pressure Equipements in Oil and Gas Industries" on 10/07/2020 at 3.00PM to 4.00 PM.
- 5. organized a national level symposium titled "PECONOVA 2018" on 15th October 2018 by the Association of Petrochemical Technologists and IIChE students' chapter.
- 6. Conducted 2 weeks induction Training programme for first year from 3/09/2018 to 09/09/20018.UCE-BIT Campus, Trichy.
- 7. Organised TEQIP II Sponsored Equipment Design Software Training for Engineers (EDSTE 2017) at Department of Petrochemical Technology, Anna University, Trichy from 25/07/2017 to 31/07/2017.
- 8. Organised TEQIP II Sponsored International Conference on Trends and Innovations in Chemical & Pharmaceutical Technologies at Anna University -BIT Campus, Trichy from 02-02-2017 to 04-02-2017.
- 9. Organised TEQIP II Sponsored Equipment Design Software Training for Engineers (EDSTE 2016) at Department of Petrochemical Technology, Anna University, Trichy from 22/02/2016 to 29/02/2016.
- 10. Organised TEQIP II Sponsored International Conference Energy and Environmental Engineering, Department of Petrochemical Technology, Anna University -BIT Campus, Trichy from 06/11/2014 to 07/11/2014.
- Organized TEQIP II Sponsored workshop on PECONOVA 2014, Department of Petrochemical Technology, Anna University -BIT Campus, Trichy on 21/03/2014.
- 12. Organized TEQIP II Sponsored Recent Trends in Renewable and Non Renewable Energy Sources (RANRES-2013), Department of Petrochemical Technology, Anna University -BIT Campus, Trichy from 26/08/2014 to 01/09/2013.
- Organised MNRE, CSIR SPONSORED National Conference on Recent Trends in Renewable Energy Sources for Sustainable Development, Department of Petrochemical Technology, Anna University -BIT Campus, Trichy from 22/02/2011 to 23/02/2011.
- 14. Organised workshop on Role of Renewable Energy in Energy Conservation (REEC-2010), Development, Department of Petrochemical Technology, Anna University -BIT Campus, Trichy from 14/12/2010 to 15/12/2010.
- 15. Participated and organized one day National conference on "Environment Awareness and Pollution Impacts" conducted by CEESAT, NIT, Trichy.
- 16. Participated one day workshop on "Instrumentation for Thermal Analysis" conducted at CEESAT, NIT, and Trichy.
- 17. Organized one day exhibition on "**Solar home appliances**" for the ladies Clubs of Trichy conducted at CEESAT, NIT, and Trichy.
- 18. Organized one day Workshop on "Renewable Energy Gadgets "in the Rajiv Gandhi Renewable Energy Day on 20-08-2006 Conducted at Periyar Maniammai College of Technology for Women, Vallam, Thanjavur.

19. Organized the two weeks AICTE-ISTE sponsored short term training Programme on "Emerging Energy Technologies" conducted by CEESAT, NIT, Trichy.

PROJECT ASSOCIATED TO M.Tech Students

- Development of 200kw Wooden log Thermal mode Gasifier
- Development of 500kw Rice husk Fluidized bed Gasifier.
- Development of 300kw Char coal Gasifier and their performance evaluation.
- Studies and performance evaluation of Thermal equipments.
- Steam injection in all combustion reaction.
- Development of Solar Water Heater.
- Development of Solar air Dryer and Solar Chimney, Solar still, their performance
- Performance evaluation of PV panels and solar concentrating collectors
- Design and construction of solar passive architecture.
- Solar Electric power generation, Solar Cooker, Solar Funnel,
- Smokeless Rocket Stove.

EXPERIENCE IN PRODUCT DEVELOPMENT:

Developed products

- 1. Ground nut Roaster- 50% of fuel saving was achieved
- 2. Boiler Insulation 10% of efficiency was improved.
- 3. Steam injection 10% of efficiency was improved.
- 4. Gasifier
 - a. Wooden Log 200 kW thermal was developed.
 - b. Rice husk 150 kW thermal
 - c. Char Coal, Poultry,- 200 kw thermal
- 5. Solar and Wind related projects- solar dryer, Solar Cookers, Solar collectors, solar ovens, solar chimneys.
- 6. Extraction of energy from pongam oil.
- 7. Bio energy projects Design and development of self circulating bio gas plant.

EXPERIENCED IN MAINTENANCE ACTIVITIES

Maintenance Work for all the Gadgets are given below is taken responsibility for PRETI

1.	Wind energy actuated pumps (300W)	-	4 Nos.
2.	Solar water heating system (500 LPD)	-	2 Nos.
3.	Solar water heating system (1000 LPD)	-	2 Nos.
4.	Solar water pumping system (900W)	-	3 Nos.
5.	Solar Street lights	-	4 Nos.
6.	Solar lanterns (12W)	-	50 Nos.
7.	Solar-still	-	1 No.
8.	Improved Chullahs	-	2 Nos.
9.	A 20 kW Thermal Gasifier (cooking)	-	1 No.
10.	A 100 kW Electric Gasifier	-	1 No.

11.	Briquetting Machine	-	350 - 550 kg/hour
12.	Solar Air-Heating	-	50 M ²
13.	Solar Power Plant	-	4.05 kV
14.	Solar Powered TV with VCR	-	1 No.
15.	Solar Powered Refrigerator (Under installation)		
16.	Wood Sizing Equipment for Gasifier	-	1 No.
17.	Biomass Gasifier 100 kW	-	1 No
18.	Biomass Gasifier 200 kW	-	1 No
19.	Biogas Plant 25 m ³ Cow Dung based	-	1 No
20.	Biogas Plant 25 m ³ Night Soil based	-	1 No
21.	Biogas Plant 15 m ³ Cow Dung based	-	1 No
22.	Biogas Plant 2 m ³ Canteen Waste	-	1 No

INTERACTION WITH OUTSIDE WORLD /Chief Guest Addressed & Guest Lecture Given:

- Chief guest addressed in AICTE Sponsored Two Days National Conference on 'ELECTRIC VEHICLES CHARGING INFRASTRUCTURE'. Chaitanya Bharathi Institute of Technology (CBIT), Proddatur. Andrapredesh, 09 & 10 May 2022.
- 2. Presented a topic "Energy Efficient Biomass Conversion Technology for Power Generation" in the AICTE FDP on 20/12/2021 Monday 9.30am to 11.00 am at Department of Electrical and Electronics Engineering, Anna University, UCE-BIT Trichy.
- Presented a topic on Effective solid waste conversion and disposal method using energy efficient Reactors on 20/12/2021 from 2.00 pm to 4.00 pm conducted by Kongunadu College of Engineering, Thottiam, Namakkal.
- 4. Presented a topic on "7 points of successive People" in the Induction Programme conducted by Mahindra Engineering College Namakkal on15/12/2021 10 am to 11.am through online.
- 5. Presented a topic on "Energy Conservation: Opportunities & Challenges in Oil and Gas Industries", 11.3.2021, IEI Technical Webinar by Tiruchirappalli Local Centre, under CHDB.
- 6. Presented a topic on "Research Methodology" in the AICTE ATAL FDP through online Saithanya Bharathi Institute of Technology Andhra Pradesh on 30/12/2020 10 am to 12 noon.
- Presented a topic on "Energy Conservation Opportunities in Industries and Home Appliances", 27/12/2020, IEI Technical Webinar by Thanjavur Local Centre, on celebration of Energy Conservation day.
- 8. Presented a topic on "Research Methodology" in the AICTE ATAL FDP through online Saithanya Bharathi Institute of Technology Andhra Pradesh on 16/12/2020 10 am to 12 noon.
- 9. Presented a topic on "Research Methodology" in the AICTE ATAL FDP through online Saithanya Bharathi Institute of Technology Andhra Pradesh on 02/12/2020 10 am to 12 noon.
- 10. Presented a paper in the AICTE FDP "Efficient Conversion Of Organic Waste System Approach To Bio Gas Generation From Waste Resources" 14/10/2020 Wednesday 9.30am to 11.00 am at Department of Petrochemical Technology, UCE-BIT Trichy.
- 11. Chief guest Addressed and Presented a lecturer on "Energy Conservation and their Importance in life" Rararajan CBSE school, Karaikudi on 10/10/2020.

- 12. presented an invite lecturer on "Energy Efficient Biomass Energy Conversion Technology in AICTE Sponsored Short Term training Program on Prospectus and Challenges in Biofuels and Bio Energy (STTP-PCBB 2019) presented on 15.11.2019.
- 13. Presented a lecturer on " Energy Conservation Opportunities in Industries and House Hold Application" The Institution of Engineers (India), thanjavur on 25/06/2019.
- 14. Cheif guest Addressed and Acted as Panel Expert in the national Conference on Emerging Trends in Engineering and Technology on 30/08/2018 conducted by Parisutham Institute of Technology and Science, Thanjavur.
- 15. Chief Guest Addressed and presented a topic on Energy Conservation Opportunities in Industries and Household in The Institution of Engineers (India), BHEL, Trichy on Tuesday 23rd May 2017.
- 16. Guest Speaker and presented a talk on Renewable Energy Resources for sustainable Environment in the TEQIP II sponsored Workshop on Future Perspectives on Clean Energy and Clean Water conducted by Department of Chemical Engineering, NIT, Trichy, 2017.
- 17. Guest Lecturer in Chemical Engineering, Energy Conservation and Energy Optimization, AAMEC Koyilvenni, Thanjavur 2017.
- 18. Presented a lecturer on " Energy Conservation Oppertunities in Industries and House Hold Application" The Institution of Engineers (India) ,Tiruchirappalli on 25/06/2019.
- 19. Guest Speaker and presented a talk on Solar Panel efficiency improvement and evaluations 21/04/2017 at EGS Pillay Engg College IEI sponsored Workshope on Challenges and oppertunities in Power Electronics Research.
- 20. Guest Speaker and presented a talk on Energy Conservation using CHP TEQIP II Sponsored FDP COMSES 2016 in Anna University-BIT, EEE, Trichy in 2016.
- 21. Chaired the Technical Session, TEQIP II National Conference NCGET 2016, Department of Petrochemical Technology, Anna University-BIT, Trichy.
- 22. Guest Speaker and presented a talk on Energy Conservation Using Renewable Energy Sources, FDP on RENEWABLE ENERGY for SUSTAINABLE FUTURE, AVC College of Engineering, Mayiladudurai in 2015.
- 23. Guest Speaker and presented a talk Energy Optimization in Materials Manufacturing TEQIP II Sponsored Two Weeks FDP on ARMETA 2015, Department of Physics, BIT, Trichy.
- 24. Guest Speaker and presented a talk on Importance of RES in MNRE Sponsored One Day Seminar on Renewable Energy Sources, OEC, Trichy 2011.
- 25. Resource Person for Ministry of Environment and Forest Sponsored Two Day Workshop on Climate change, Disaster Management and Awareness on Water Pollution, OEC, Trichy.
- 26. Presented a paper on "Combined light and Heat" in AICTE-ISTE sponsored short- term training programme on "Emerging Energy Technologies" conducted by CEESAT, NIT, and Trichy.
- 27. Presented a paper on "Combined Heat and Power in NITT hostel" in AICTE- ISTE sponsored short term training programme on "Emerging trends in Energy Management and Non Conventional Energy" conducted by CEESAT, NIT, and Trichy.
- 28. Presented a paper on "Biogas **generation from waste resources**" in Rajiv Gandhi Renewable energy day celebration conducted by DRDA, Thanjavur.

29. Presented a paper on "Co- Generation & Energy management in industry" in AICTE-ISTE sponsored Induction training Programme on "Hybrid Energy Systems" conducted at PMCTW, Vallam, Thanjavur.

B.Tech Project under the guidance of Dr.N.Stalin, Assistant Professor, Department of Petrochemical Technology, Anna University - BIT Campus, Tiruchirappalli – 620024.

Academic Year: 2016-2017

	Academic Tear	12010 2017		
S. NO.	Register No.	Name of the Student	Title of the Project	Company Name
1	810013239016	JEEVITHA MEEGA SELVI M	Manufacture of caustic soda by membrane cell process	DCW limited, Chennai
2	810013239018	KAMATCHI RAJA K	Coprocessing of Non-edible oil (Jatropha oil) with high speed diesel to increase cetane number	Chennai Petroleum corporation limited
3	810013239038	SANGEETHKUMAR R	Manufacture of ethyl acetate by by Esterification process	In-House Project
4	810013239043	SYED SHAHID THILAVAR A	Production of cumene	Hindustan Organic Chemicals Limited, Kerala
5	810013239304	KIRUBAKARAN S	Recovery of propylene from propylene mixture	Hindustan Organic Chemicals Limited, Kerala
6	810013239306	PRAKASH V	Production of Acetone from cumene	Hindustan Organic Chemicals Limited, Kerala

Academic Year: 2015-2016

S. NO.	Register No.	Name of the Student	Title of the Project	Company Name
1	810012239007	ELAMURUGAN D	Recovery of valuable products from reduced crude oil	Chennai Petroleum corporation limited
2	810012239016	MAHESWARI K	A study on manufacture of hydrocinnamaldehyde	In-House Project
3	810012239025	MURALIDHARAN A	A study of Terephthalic acid	In-House Project
4	810012239034	SABESAN S	Production of Acetone from Cumene	Hindustan Organic Chemicals Limited, Kerala
5	810012239043	SRIDHAR G	Manufactue of Hydrochloric Acid by Membrane cell Process	The Travencore Cochin chemicals Ltd., Kerala

6	810012239052	VINOTHKUMAR S	Manufacture of Teritiary amyl methyl ether	In-House Project
7	810012239308	TAMILMOZHY U	A study of Manufacure of ethyl acetate by eserification and design of distillation column and condenser	In-House Project

Academic Year: 2014-2015

S.No	Register No.	Name of the Student	Title of the Project	Company Name
1	810011239007	Deenadayalan .S	Desulphurization of Naphtha	Mangalore Refinery and Petrochemicals Limited
2	810011239015	Gokul.S	A study on manufacture of Ethanolamines	In-House Project
3	810011239023	kishore kumar A	Manufacture of Liquid chlorine by liquefaction process	The Travencore -Cochin Chemicals Ltd.,
4	810011239031	Nithinraja R	Manufacture of Crude terephthalic acid by modified amoco process	In-House Project
5	810011239039	Sakthi.C	Manufacture of ammonia synthesis gas from LNG	The Fertilizers and Chemicals Travancore limited
6	810011239047	Subramani.R	A study on manufacture of hydrocinnamaldehyde	Cetex Petrochemicals Ltd.,
7	810011239055	Vilvijayan.A	A study on manufacture of ethyl ether from ethyl alcohol by dehydrogenation	In-House Project

Academic Year: 2013-2014

S.No	Register No.	Name of the Student	Title of the Project	Company Name
1	01110153015	Jayaseeli S	A Study on Recovery of LPG from VDU	Chennai Petroleum
1			Gas	Corporation Ltd

Academic Year: 2012-2013

S.No	Register No.	Name of the Student	Title of the Project	Company Name
1	01109153006	Arun Kumar G	Manufacture of Ammonia from Steam	Madras Fertilizers Ltd
			Reforming of Naphtha	
2	01109153021	Gugan P	Recovery of Ammonium Sulphate by Purge Incineration	The Fertilizers and
				Chemicals Travancore
				Ltd

Academic Year: 2011-2012

S.No	Register No.	Name of the Student	Title of the Project	Company Name
1	01108153035	Sakthi Maneeshaa R	A Study on Petroleum Refinery Sour Water	Chennai Petroleum
			Stripping	Corporation Ltd

Academic Year: 2010-2011

S.No	Register No.	Name of the Student	Title of the Project	Company Name
1	01107153003	Abdul Sathar M	Manufacture of Caustic Soda By Membrane Process	DCW Ltd.
2	01107153027	Karthikraja A	Study on Manufacture of Ethyl Benzene	In-House Project
3	01107153019	Hareesh N	Manufacture of Isopropyl Alcohol By Direct Hydration	In-House Project
4	01107153504	Kamalakannan P	Study on Manufacture of Nylon 6,6	In-House Project
5	01107153053	Suriyakala M	Manufacture of Acetone by Catalytic Dehydrogenation of Isopropanol	In-House Project
			A Study of Hydrogenation Section of	The Fertilizers and
6	01107153011	Balaji R	Anone Plant in FACT- Petrochemical	Chemicals Travancore
			Division	Ltd

Extracurricular Activities

- ➤ Coordinator MSME, Coordinator Cooperative Society, Coordinator SPE, Association of Petrochemical Technology.
- ➤ Event Coordinator Silver Tongue and Tamil Speech FIESTA 2009-2020.
- ➤ Exam cell Co-coordinator 2013, TANCET Exam coordinator (2010 2014)
- ➤ Worked as a Deputy Director Library Development Anna University, Trichy.
- ➤ Coordinator M.Tech Energy Engineering 2010 to 2013 Anna University Trichy.
- ➤ TEQIP Department Coordinator, Cultural coordinator, Sports coordinator AUT.
- Worked as Warden Men's hostel,
- Manam Club (service to the poor students) coordinator.
- External Examiner for CECRI, NITT, IIT Hyderabad, NIT Calicut (Mechanical Engg).