

PROFILE

N.STALIN

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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 Technology, 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 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, **Centre 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 PAPER PUBLISHED

INTERNATIONAL JOURNAL PUBLICATIONS

1. Sathish, T., Ağbulut, Ü., Kumar, P. S., Mageswari, S. D. U., **Stalin, N.**, Pandian, R., et al. (2024). Impacts of novel Calotropis gigantea seed biodiesel usage as a fuel substitute along with various metal-oxide nanoparticles on the DIC engine characteristics. *Case Studies in Thermal Engineering*, 63, 105249. <https://doi.org/10.1016/j.csite.2024.105249>.
2. Sathish, T., Kumar, P. S., Mageswari, S. D. U., **Stalin, N.**, Pandian, R., et al. (2024). Carbonization and gasification of cow-dung and Fe₃O₄ nanoparticles at different operating conditions for hydrogen production. *ChemistrySelect*, 9(35), e202402515. <https://doi.org/10.1002/slct.202402515>.
3. Sathish, T., Kathirvel, S., Dwivedi, Y. D., Stalin, N., Giri, J., Saravanan, R., & Makki, E. (2024). Performance enhancement by tungsten trioxide and silicon dioxide mixed nanofluids in solar collector of evacuated tube type. *Case Studies in Thermal Engineering*, 55, 104098. <https://doi.org/10.1016/j.csite.2024.104098>.
4. Muniyandi, S., Narayanasamy, S., & **Stalin, N.** (2024). Experimental analysis on the performance of photovoltaic module with Al₂O₃ deionized water nanofluid. *Thermal Science*, 28(1 Part A), 357-364. <https://doi.org/10.2298/TSCI200312039M>.
5. 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-10982AvailableonlineVolume3, Issue16, May2023.
6. 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 Al 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>
7. Sundeepp.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.
8. MohamadRedaA.Refaai,StalinNarayanasamy,V.ChittaranjanDas,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>
9. 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>
 10. **Stalin, N.**, Shobhanadevi, N. Studies on thermal, structural, and compositional properties of agro-waste 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>.
 11. 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>
 12. 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](https://doi.org/10.1080/15567036.2019.1576076), SCI, Scopus Indexed, IF = 2.902.
 13. 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>
 14. 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**
 15. 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**
 16. 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**
 17. 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**

18. 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 Nano science Vol. 14, 5215-5225, 2017. **SCIE, Scopus Indexed, IF = 1.42.**
19. G. Chitrakala, **N.Stalin** and V. Mohan, 2017, "A Novel Programmed Low Frequency PWM Method for Performance Enhancement of Single-Phase to Single-Phase Cyclo converter" CIIT International Journal Of Digital Image Processing Volume 9, No 2, February 2017pp. 39-46. **IF 0.652.**
20. 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.
21. N. Shobanadevi, V. Krishnamurthy 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.**
22. ShobanadeviNagarajan,KrishnamurthyVenkatachalapathy,**StalinNarayanasamy**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.
23. 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),ISSN0976-3945 vol. 7 no.2 pp.280-284. **Scopus Indexed, IF = 3.43.**
24. N. Shobanadevi, V. Krishnamurthy 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, 2016ISSN 1990-9233. **Scopus indexed, IF=0.36**
25. Saravanan KK, **Stalin N**, Sree Renga Raja T 2016, "Design of Single-Phase Seven Level Grid-Connected Inverter Using SolarSystem ", Asian Journal ofResearch 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.**
26. Saravanan KK,**StalinN**, Sree Renga Raja T2016,"Simulation of NewMulti-Input Three Level DC-DC Converter", Transylvanian Review. (Anna University recommended Journal: Annexure-I, Accepted for publication). **Scopus Indexed, IF = 0.08.**
27. 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.**
28. Gajendran Tand **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.**

29. Mohan, V, **Stalin, N** & Jeevananthan,S, „Adouble 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.**
30. 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.**
31. 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.**
32. Saravanan KK, **Stalin N**, Sathiyaraj 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.**
33. 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.**
34. ElankurisiSA, SaravananKK,**StalinN**,MahendraPerumanP2015,”InvestigationonFullBridgeand Coupled Inductor ZVS DC-DC Converter Fed PMDC Motor“, International Journal of Applied EngineeringResearchISSN0973-4562volume10,number9,pp.24407-24422.**ScopusIndexed, IF=0.15.**
35. 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.**
36. V.Mohan,**N.Stalin**,S.Jeevananthan,“ATacticalChaosbasedPWMTechniqueforDistortionRestraint 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**
37. 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.**
38. 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**
39. 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**
40. **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.**

41. **Dr.N.Stalin.** Energy Conservation Opportunities in Paper Plant using Combined Heat and Power for Pharmaceutical Application, International journal Nano bio Pharmaceutical Technology, Elsevier 2014 volume 1, page 61-73. **Elsevier Book chapter.**
42. 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.**
43. 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**
44. Arunkumar, N. LakshmiPraba, **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**
45. 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.
46. 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.
47. S. Anju, N. LakshmiPrabha, **Dr.N.Stalin**,(2013).SmartBuilding Automation through Wireless Sensor Networks Using Zigbee, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 7, July –2013.pp.196-200.
48. **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.
49. **Stalin, N.;** Prabhu. HJ. Effect of Microbial growth on Self circulating biogas plant using carrier materials International ARPJ Journal of Engineering and Applied Sciences, Volume 2, September 2007,pp.8-11. **Scopus Indexed, IF= 0.46.**
50. **Stalin, N.;** Prabhu. HJ. Performance test of IC engine using Karanja bio-diesel blending with diesel, InternationalARPJJournalofEngineeringandAppliedSciences,Volume2,September 2007,pp.32-34. **Scopus Indexed, IF= 0.46.**
51. **Stalin, N.;** Prabhu.H.J. “Performance Evaluation of a Partial Mixing Anaerobic Digester” ARPJ International Journal of Engineering and Applied Sciences Volume 2, June, 2007, pp.1-6. **Scopus Indexed, IF= 0.46.**
52. **Stalin,N.;**Sridevi.P(2007).DesignofanEvaluationModelformid-sizecarsegmentusingaDSS Framework,InternationalJournalofAppliedManagementandTechnology,volume,issue2,May2007, pp.32-

37. IF= 0.16.

53. **Stalin, N.**; Prabhu. H.J. "Performance Evaluations of Self Circulating Biogas Plant, Applied Management and Technology, Volume 5, Issue 1, May 2007, pp.64-75. IF= 0.16.

54. **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:**

55. N. Shobanadevi¹, V. Krishnamurthy 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.**

56. **Stalin, N.** Prabhu. H.J. Design of community bio gas plant for biogas generation Journal of Research & Development, Vol 4, 2006, pp.29 –33.

INTERNATIONAL CONFERENCE

1. 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 IChE 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, Ben coolen, Singapore.
5. Dr. N. Stalin " A Novel Programmed Low frequency PWM Method for Performance Enhancement of Single Phase to Single Phase Cycloconverter" 24/02/2017, TEQIP II sponsored International Conference ICCPEAT 2017 conducted by PEC, Pondicherry.
6. 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.
7. 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.
9. 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 Nano bio 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 andG. 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 HeatAICTE-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.**;Biogasgenerationfromwasteresources”inRajivGandhiRenewableenergyday 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.“StudiesonPerformanceEvaluationofSelfCirculatingBiogasPlant, 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,InternationalconferenceOrganizedbyAIM,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:

1. 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 wastewater", 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. Arunkumar, 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 AS, N. Lakshmi Praba, **Dr. N. Stalin** "Reduced Power Flip Flop Design For Clock Distribution Networks" March 2013.
10. S. Anju, N. Lakshmi Praba, Dr. N. Stalin "Building Lighting Automation Through Wireless Sensor Network using zigbee" Feb 2013.
11. R. Vanaja, N. Lakshmi Praba, Dr. N. Stalin "FPGA Implementation of pipelined 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, MNRES sponsored National Conference, OEC, Trichy. 16-17 July 2010.
16. Muthu Kumar, K.; Stalin, N.; Pv Cell based PWM inverter for Industrial Drives. MNRES sponsored National Conference, OEC, Trichy. 16-17 July 2010.

PROJECTS;

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

2	POWER GENERATION BY USING HIGHWAY WIND MILL AND SOLAR PANEL	NMNT 761	GOVT OF TN	1.1 LAKHS
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Sl.No	Topic	ProjectID	Sponsoring Authority	Amount and year
1	Reclamation of used engine oil By Lab Scale Method	CHE– 197	TNSCST	7500&SPS 2022
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 tactic 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	AssociateProfessor,DepartmentofElectricalandElectronicsEngineering, E.G.S.PillayEngineeringCollege,Nagapattinam,Tamilnadu-611002,India
V.Mohan	Professor, Department of Electrical and Electronis 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.

3. Australianpatent-Granded

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

PhD Completed Under My Guidance:

Sl.No	Name of the Scholar	Registration Number	Topics	Year of Completion
1	G.Chitrakala	16243597182	Distortion reduction, components count waning and conduction path curbing Options in multilevel inversion.	Dec2020
2	R.Murali	1214279744	Preparation of Bio composite from cashew nut shell and operational emission characteristics of Azolla-Corn Husk biogas powered diesel engine.	Oct2020
3	N.Lakshmiprabha	20113012007	Investigations and performance enhancement of transformer less photo-Voltaic inverter	May2019
4	S.Jayanthi	2010S3012003	Novel optimization techniques and design of high performance isolated power systems for smart grid applications.	Dec2018
5	A.L.Mayilvahanan	2010S3012004	Development of novel maximum power point tracking techniques for solar Power applications	Sep 2018
6	K.K.Saravanan	20113012003	Design and Investigation of grid connected converter for solar photovoltaic power generation.	Feb 2018
7	N.Sobanadevi	20093062006	Cascaded quasi impedance source network based DC-DC converter and Voltage stress analysis using SB control	Feb 2018
8	M.Kodeeswara Ramanathan	20096032003	Contingency planning to continuous supply in constrained power resources In particular reference to Tamilnadu.	Dec2015
9	T.Gajendran	2010S6012003	Performance Studies of polymer Membrane materials using modifiers for Fruit juice concentration and protein purification.	Nov2015
10	V.Mohan	20093012012	Perform Enhancement of AC-DC-AC Converter systems.	Oct2015

PHDSCHOLARS DOING UNDER MY GUIDANCE:

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

Details of past Experience

Name and address of the Institution/ Organization	Post held	Period of service	
		From	To
ANNAUNIVERSITY-BIT,TIRUCHIRAPPALLI	ASSISTANT PROFESSOR	02-09-2009	Till Date
SONACOLLEGE 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 POLYTECHNIC, CHENNAI	LECTURER	01-06-1999	21-06-2001

BOOK AUTHORED

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

Book Chapters Authored: 2 Nos

Sl.No	Book Title	Paper Title	Authors of the Chapter	Book Chapter Authored	Publishers	Month and year of Publications
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1	NANOBIO PHARMACEUTICAL TECHNOLOGY	Energy Conservation Opportunities in Paper Plant using Combined Heat and Power for Pharmaceutical Application	Dr .N. Stalin	Dr.P. Selvamani	ELSEVIER	July2014
2	NANOBIO PHARMACEUTICAL TECHNOLOGY	Energy Management and Integration of PEM Fuel Cell with UAVPA	Dr.N. Stalin	Dr.P. Selvamani	ELSEVIER	July2014

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	ANNRUFUS A	ENERGY AUDIT OF ELECTRICAL UTILITIES IN INDIACEMENTS 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 AUDITING 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
11	810011527010	GOWTHAM D	STUDY AND DESIGN OF IKW SOLAR POWER PLANT	Dec-12
12	810011527017	VIJAYABHASKAR J	STUDY AND DESIGN OF 2 KW SOLAR AND WIND HYBRID POWER SYSTEM	Dec-12

13	810011527015	PAVENTHAN M	STUDY ON REDUCTION IN AUXILIARY 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	810011527017	VIJAYABHASKAR J	ELECTRICAL AND THERMAL AUDIT IN DOSHIBAJSW TURBINE AND GENERATOR (P) LTD	Jul-13
16	810011527015	PAVENTHAN M	UTILISATION OF RENEWABLE ENERGY BY USING SOLAR PUMPING SYSTEM IN TPS-I EXPANSION	Jul-13
17	810011527002	ANANTHAKUMARS	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 PROGRAMME	DATE	VENUE
1.	Two Weeks Professional Training On Chemical Process Engineering-ASPEN HYSYS at Institute Of ChemE Design And Development, Coimbatore.	Industrial Training, Coimbatore	03/07/2023 to 17/07/2023	Institute Of ChemE Design And Development, Coimbatore.
2.	4-Week Faculty Induction/Orientation Programme For "Faculty In University/College/Institute Of Higher Education" at Teaching Learning Centre, Ramanujan College, University of Delhi.	PMMMNM TT	23/04/2023 to 22/05/2023	Online
3.	1-Week Faculty Development Programme on "ACADEMIC RESEARCH WRITING" At Teaching Learning Centre, Ramanujan College, University of Delhi.	PMMMNM TT	27/03/2023 to 02/04/2023	Online
4.	2-Weeks Refresher Course On "Managing Online Classes And Co-creating MOOCs 24.0" at Teaching Learning Centre, Ramanujan College, University of Delhi.	PMMMNM TT	11/03/2023 to 25/03/2023	Online
5.	Curriculum Development Processes Conducted by Curriculum Development	NITTTR, Chandigarh	25/04/2022 to 29/04/2022	Online

	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)	NITTTR 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-Apr 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, Nagapattinam
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-6502HeatandMassTransfer	CFR Chennai sponsored	18–24June 2018	UCE Villupuram
20	IC-6501-ControlSystems	CFR Chennai sponsored	15–21May 2018	UCE – BIT campus, Trichy
21	Potential and challenges for integrating renewable energy for smart city implementation	AICTE Sponsored FDP	3-16Dec 2017	PSG College of Technology, Coimbatore
22	Implications of Chemical and Biological Sciences in Biotechnology(ICBSB-16)	TEQIPII Sponsored FDP	22 nd Juneto5 th July2016	BIT, Trichy
23	Advanced technologies for societal applications(ATSA'16)	TEQIPII Sponsored FDP	6 th to19 th June 2016	BIT, Trichy
24	Process Instrumentation Dynamics and Control	FDP	14 th to20 th Dec 2015	Anna University, Chennai
25	Thermal Engineering Applications for Sustainable Improvement	FDP	15 th to 28 th June 2015	BIT, Trichy
26	Nanotechnology Applications in Engineering and Technology	TEQIPII Sponsored FDP	6 th to19 th May 2015	BIT, Trichy
27	Comprehensive Approach of Biotechnological Application	TEQIPII Sponsored FDP	16 th to2 ^{9th} April 2015	BIT, Trichy
28	Quality Initiatives in Technical and Higher Educational Institution	National Workshop	22 nd to 24 th Oct 2013	Engineering Staff College of India, Hydrabad
29	Numerical Method and Optimization Techniques in Mechanical Engineering	TEQIPII Sponsored FDP	19 th to26 th Aug 2013	BIT, Trichy
30	ME2251-HeatandMassTransfer	FDP	17 th to24 th Dec 2012	BIT, Trichy
31	Energy Conservation and Management	TEQIP Sponsored Orientation Programme	4 th to 17 th June 2012	NIT, Trichy
32	ISTE FDP on Heat Transfer	ISTE Sponsored FDP	29 th Novto10 th Dec2011	IIT, Mumbai
33	National Seminar on Swarm Intelligence	AICTE Sponsored National Seminar	19 th to20 th Dec 2007	Kongu Engineering College,
34	Energy Conservation Measures for Measuring and Processing Industries	Short Term Course	10 th to14 th Dec 2007	NIT, Trichy
35	Multiphase Flow and Process Industries	Workshop	24 th March2007	NIT, Trichy
36	Recent Advancement in Logistics and Supply Chain Management	Short Term Course	12 th to 16 th March2007	NIT, Trichy
37	Fuzzy Systems	Workshop	24 th to25 th Feb	NIT, Trichy

			2007	
38	Recent Advancements in Environmental Engineering	Short Term Course	19 th to23 rd Feb 2007	NIT, Trichy
39	Recent Advances in Environment Safety And Energy Management	Training Programme	5 th to9 th Feb 2007	NIT, Trichy
40	What Every Engineer should know about Telecommunication and Networking	Workshop	3 rd Feb2007	NIT, Trichy
41	Finite Element Method for Engineers	Workshop	1 st and2 nd Feb 2007	NIT, Trichy
42	Laser Materials Processing	Workshop	9 th and10 th Jan 2007	NIT, Trichy
43	94 th IndianScienceCongress	Training Programme	3 rd to7 th 2007	Indian Science Congress Kolkata
44	Recent Advances and Challenges of Biotechnology Processes	Workshop	15 th and 16 th Dec2006	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 and22 nd Sep2006	AMIM, Thanjore
47	Safety Hazard and Risk Assessment in Process Industries	Workshop	15 th July2006	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 Mayto11 th June 2006	PMCTW, Thanjavur
50	Renewable Energy-Energy of the Future	Workshop	20 th Aug2005	NIT, Trichy
51	Small Hydro Power Projects	Workshop	22 nd and23 rd April2005	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 to28 th May 2004	NIT, Trichy
54	National Seminar on Copy Rights	National Seminar	23 rd April 2004	Annamalai University.

15. CONFERENCES/WORKSHOPS/SEMINAR ORGANISED

1. Conducted 2 weeks INDUCTION PROGRAMME – SCHEDULE FOR 1ST 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 & 15th September 2021 at 11.00AM 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 Equipments in Oil and Gas Industries” on 10/07/2020 at 3.00PM to 4.00 PM.
5. organized a national level symposium titled “PECONOVA2018” on 15th October 2018 by the Association of Petrochemical Technologists and IChE students” chapter.
6. Conducted 2 weeks induction Training programme for first year from 3/09/2018 to 09/09/2018. 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.
11. Organized TEQIP II Sponsored workshop on PECONOVA2014, 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.
13. 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. 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 Charcoal 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. Groundnut Roaster-50% off 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-200kW thermal was developed.
 - b. Rice husk-150kW thermal
 - c. Char Coal, Poultry, -200kW 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.

EXPERIENCE 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(500LPD)	-	2 Nos.
3.	Solar water heating system(1000 LPD)	-	2 Nos.
4.	Solar water pumping system(900W)	-	3 Nos.
5.	Solar Streetlights	-	4Nos.
6.	Solar lanterns(12W)	-	50Nos.
7.	Solar-still	-	1 No.
8.	Improved Chullahs	-	2 Nos.
9.	A 20kW Thermal Gasifier(cooking)	-	1 No.

10.	A100kWElectric Gasifier	-	1 No.
11.	Briquetting Machine	-	350-550 kg/hour
12.	Solar Air-Heating	-	50M ²
13.	Solar Power Plant	-	4.05kV
14.	Solar Powered TV with VCR	-	1 No.
15.	Solar Powered Refrigerator(Under installation)		
16.	Wood Sizing Equipment for Gasifier	-	1 No.
17.	BiomassGasifier100kW	-	1 No
18.	BiomassGasifier200kW	-	1 No
19.	Biogas Plant25m ³ CowDungbased	-	1 No
20.	BiogasPlant25m ³ NightSoilbased	-	1 No
21.	Biogas Plant15m ³ CowDungbased	-	1 No
22.	BiogasPlant2m ³ CanteenWaste	-	1 No

INTERACTIONWITHOUTSIDEWORLD/ChiefGuestAddressed&GuestLectureGiven:

1. 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.
3. 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 on 15/12/2021 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.
7. 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 Bio fuels 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 Industriesand 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 21/04/2017atEGSPillayEnggCollegeIEIsponsored Workshop on Challenges and opportunities 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 onARMETA2015, 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

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	KAMATCHIRAJAK	Coprocessing of Non-edible oil (Jatropha oil) with high speed diesel to increase Cetane number	Chennai Petroleum corporation limited
3	810013239038	SANGEETHKUMARR	Manufacture of ethyl acetate by Esterification process	In-House Project
4	810013239043	SYED SHAHID THILAVARA	Production of cumene	Hindustan Organic Chemicals Limited, Kerala
5	810013239304	KIRUBAKARANS	Recovery of propylene from propylene mixture	Hindustan Organic Chemical 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	ELAMURUGAND	Recovery of valuable products from Reduced crude oil	Chennai Petroleum Corporation limited
2	810012239016	MAHESWARIK	A study on manufacture of hydrocinnamaldehyde	In-House Project
3	810012239025	MURALIDHARANA	A study of Terephthalic acid	In-House Project
4	810012239034	SABESANS	Production of Acetone from Cumene	Hindustan Organic Chemicals Limited, Kerala
5	810012239043	SRIDHAR G	Manufacture of Hydrochloric Acid by Membrane cell Process	The Traven core Cochin Chemicals Ltd., Kerala

6	810012239052	VINOTHKUMARS	Manufacture of Tertiary amyl methyl ether	In-House Project
7	810012239308	TAMILMOZHUYU	A study of Manufacture of ethyl acetate by Esterification and design of distillation column and condenser	In-House Project

AcademicYear: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	kishorekumarA	Manufacture of Liquid chlorine by Liquefaction process	The Travencore-Cochin Chemicals Ltd.,
4	810011239031	NithinrajaR	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

AcademicYear: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 Gas	Chennai Petroleum Corporation Ltd

AcademicYear: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 Reforming of Naphtha	Madras Fertilizers Ltd
2	01109153021	Gugan P	Recovery of Ammonium Sulphate by Purge Incineration	The Fertilizer sand Chemicals Travancore Ltd

AcademicYear: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 Stripping	Chennai Petroleum Corporation Ltd

AcademicYear: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	Kamalakaran P	StudyonManufactureofNylon6,6	In-House Project
5	01107153053	Suriyakala M	Manufacture of Acetone by Catalytic Dehydrogenation of Isopropanol	In-House Project
6	01107153011	Balaji R	A Study of Hydrogenation Section of Anone Plant in FACT-Petrochemical Division	The Fertilizers and Chemicals Travancore Ltd

Extracurricular Activities

- Coordinator MSME, Coordinator Cooperative Society, Coordinator SPE, Association of Petrochemical Technology.
- Event Coordinator Silver Tongue andTamilSpeechFIESTA2009-2020.
- Exam cell Co-coordinator2013,TANCETExamcoordinator(2010–2014)
- Worked as a Deputy Director Library Development–Anna University, Trichy.
- Coordinator M.Tech EnergyEngineering2010 to2013-AnnaUniversity 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).