



# SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi  
Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution  
Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairamit.edu.in](http://www.sairamit.edu.in)



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name : N.SHANTHI  
 Designation : Assistant Professor  
 Email : shanthi.eee@sairamit.edu.in  
 Qualification : M.E, M.B.A, (PhD)  
 Specialization : Power Electronics and Drives  
 Research Interest : Power Electronics



Experience in years : Teaching UG  G  Industry

No. of Workshop/Conferences/  
 FDP attended : Workshop  Conferences  FDP

No. of Workshop/Conferences/  
 FDP Organized : Workshop  Conferences  FDP

Professional Membership	<b>ISTE- LM87105 ,IEEE-98075775</b>
Publications	National : -- Conference -1
	International: - 5
	Book : -
Research Funded Projects	Nil
Patents	1
Achievements	<p>1.Received Best Faculty Advisor award from IEI (2021)</p> <p>2.Received AICTE Lilavati Award 2021-2022</p> <p>3.Received Rs. 2,000 Cash Award from Sri Sai Ram Institute of Technology for Producing 100% Result in following subjects.</p> <p>Special Electrical Machines-2010</p> <p>Flexible AC Transmission System -2011,2012</p> <p>Biomedical Instrumentation Systems -2014</p> <p>Power System Transients-2016</p> <p>Linear Integrated Circuits-2016</p> <p>High Voltage Engineering -2016</p>
Any Other Information	<p>1. Attended one month Industry Internship on” Design and Development of dual regulated smart DC power supply” at Anand Techno Creation from 25.01.2021 to 06.02.2021 in online mode</p> <p>2.Attended one month Innovation Ambassador training (Advanced Level) conducted by MoE's Innovation Cell &amp; AICTE during the period from 30th June - 30th July 2021 in online mode.</p> <p>3..Attended six days Industrial Training at “Kasa Analagen India Pvt Ltd ,Thirumudivakkam ,Chennai From 02.03.2022 to 08.03.2022</p>

**List of Publications:-**

### **International:**

- 1.P.Karthika, N.Shanthi, E.Maheswari, "Design of Improved Solar Energy Harvested hybrid Active Filter for Harmonic Reduction ,Power factor correction and current Compensation, "*International Journal Of Science Technology & Engineering (IJSTE)*, Volume 2, Issue 07, January 2016, ISSN (online):2349-784X
2. N. Shanthi, P. Nivethitha, S. Sindhuja, M. Hilasini and K. Divyabharathi, "High Efficient Interleaved Boost Converter for Photovoltaic Applications," *2018 International Conference on Computation of Power, Energy, Information and Communication (ICCPEIC)*, Chennai, India, 2018, pp. 305-309.doi: 10.1109/ICCPEIC.2018.8525145
3. N. Shanthi; R. Deepalaxmi, "Performance analysis of Three Level Interleaved Boost Converter with Coupled Inductor", *Fifth International Conference on Electrical Energy Systems (ICEES)*, 21-22 Feb. 2019, **DOI:** 10.1109/ICEES.2019.8719313
4. Abirami Anandasabesan , Soundarya Mahamani, Haritha Sree Soundararajan , **Shanthi Natarajan**, Maheswari Ellapan, Revanya Devi Myla, "Simulation Modelling of Semi-automation Transport Vehicle" *International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE)*, 08 December 2020, Bangalore. DOI: 10.1109/ICSTCEE49637.2020.9277351
5. Abirami Anandasabesan, Soundarya Mahamani, Haritha Sree Soundararajan, **Shanthi Natarajan**, Sumathi Sokkanarayanan, Mithileysh Sathiyarayanan, Work-in-Progress: Smart Automatic Regeneration of Electricity using Thermoelectric Generator Technology," *Fourth International Conference on Computing and Communications Technologies (ICCCT)*, 2021, pp. 484-488, DOI: 10.1109/ICCCT53315.2021.9711775

### **National:**

1. Razmah M, 2 Shanthi N," Switched Boost Converter for BLDC motor Application", *National Virtual Conference on Institutionalization of Quality Assurance Strategies by IQAC in Higher Education Institutions, 15th-16th February 2022 sponsored by NAAC at Academy of Mari Time Education and Training (AMET) Deemed to be University, ISBN 9789385434426*
2. Shanthi .N, Sasikala.A," Automatic Public Transport Ticketing System", *Ilkogretim Online - Elementary Education Online*, 2020; Vol 19 (Issue 4): pp. 6936-6941, doi: 10.17051/ilkonline.2020.04.765099

### **List of Patent:**

1. Patent No. 202141002310 Titled "Design and Development of High Efficient Luo converter with fuzzy logic controller for DC Micro grid" Published on 05.02.2021

### **Papers presented:**

1. Presented a paper titled "A bidirectional DC-DC converter for Hybrid Electric Vehicle" in the National conference-CIPC-08 organized by SRM Engineering College on April 7&8, 2008

### **Workshop / Conferences / FDP Attended:-**

1. Attended one day workshop on "High Voltage Engineering "at Panimalar Engineering College on 15/12/2006

2. Attended two days Short Term program on “Modeling of FACTS devices and its applications” at SRM Engineering College from 27/07/2007 to 28/07/2007
3. Attended seven days FDP on “Electro Magnetic Theory” at Anna University from 07/06/2010 to 13/06/2010
4. Attended one day workshop on “Embedded control of special Electrical Machines” at Easwari Engineering College on 07/02/2012
5. Attended a National Conference on “Communication and Nano electronics Technology” at Sri Sairam Institute of Technology from 12/10/2012 to 14/10/2012
6. Attended one day FDP on “Application of FACTS in power electronics and power system” in Sri Sairam Engineering College on 27/02/2013
7. Attended 2 days FDP on “TI Analog System Design by ASLK PRO” in Anand Institute of Higher Technology from 20/05/2015 to 21/05/2015
8. Attended 7 days FDP on “Power Electronics” in Sri Sairam Engineering College from 1/06/2015 to 8/06/2015
9. Attended the Three days FDP on “Electromagnetic Theory and Control Systems” from 19.06.17 to 21.06.17 in Sree Sastha Institute of Engineering and Technology
10. Attended one day workshop on “Research Challenges and Innovation on Solar Energy Systems” held on 04th August, 2017 in SSN College of engineering
11. Attended on Three days FDP “Power Electronics for Renewable Energy Systems” held at Tagore Engineering College from 18.01.18 to 20.01.18
12. Attended five days FDP on “Engineering Teaching Pedagogy and Teaching Learning Process” at Sai Ram institute of Management Studies from 03/12/2018 to 07/12/2018
13. Attended five days FDP on ”Role of Automation Technique in Electrical Engineering” organized by St Josephs college of Engineering From 15.06.2020 to 19.06.2020
14. Attended five days FDP on” Hardware in the loop simulation: Learning and teaching tool from Typhoon HIL” organized by VIT, Chennai from 31.08.2020 to 04.09.2020
15. Attended five days AICTE Training and Learning (ATAL) Academy Online FDP on "Sensors Technology" from 2020-8-17 to 2020-8-21 at St.Joseph's Institute of Technology
16. Attended five days AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-9-7 to 2020-9-11 at Sri Sairam Institute of Technology
17. Attended one Week AICTE Sponsored STTP on” Recent Trends in Electric Vehicles”at Pragati Engineering College from 30.11.2020 to 05.12.2020
18. Attended five days AICTE Training and Learning (ATAL) Academy Online FDP on "Smart Cities" from 2021-2-1 to 2021-2-5 at Vellore Institute of Technology
19. Attended five days AICTE Training and Learning (ATAL) Academy Online FDP on "Energy Storage" from 2021-2-22 to 2021-2-26 at KPR Institute of Engineering and Technology
20. Attended Two Weeks AICTE Sponsored online FDP on” Machine learning technique for Imaging and healthcare with python” at Sri Sai Ram engineering college from 18.03.2021 to 31.03.2021

**NPTEL Courses Completed:**

1. Basic Electrical Circuits-8 Weeks-Jul-Sep-2017
2. Design of Photovoltaic Systems-12 weeks-Jul-Oct-2018-1 1/2 Week FDP
3. Electronic Waste Management-Issues and Challenges-Jan-Feb-2019- 1/2 Week FDP
4. Recent Advances in Transmission insulators – Jan - Feb 2021- 4 Week Course

**Organized Events:**

1. Organized the national level technical symposium WARROS'2011 at Sri Sairam Institute of Technology
2. Guest lecture organized on “Design of Substation and Insulation Coordination” on 31/08/2016
3. One Day National Seminar organized on IEI Sponsored “Integration and Challenges on Renewable Energy System” on 16/02/2018
4. One Day Technical Lecture organized on IEI Sponsored “Energy Conservation” on 12/02/2019
5. Organized Three days workshop on” Proteus and Arduino” from 17/02/2020 to 19/02/2020
6. Organized webinar on “Student’s innovation and Entrepreneurship Development” on 26/ 7/2020
7. Organized webinar on “Atmanirbhar bharath – vocal for local, make in India for the world” on 18/12/2020
8. Organized workshop on “Real time applications of Arduino” on 12/10/2021
9. Organized webinar on “Energy Conservation and Energy Efficiency” on 14/12/2021
10. Organized webinar on” Entrepreneurship Awareness for students” on 23/02/2022