



SRM Valliammai Engineering College


SRM Nagar, Kattankulathur-603203, Kancheepuram District, Tamil Nadu

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Department of Electrical and Electronics Engineering

Personal Details

Name :	S.Vanila	
Designation :	Assistant Professor (Sel.G)	
Educational Qualification :	M.E Embedded systems	
Experience:	18 years and 5 months	
Area of Specialization :	Embedded systems	
Date of Joining :	03/12/2010	
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	EEE	Manonmanium Sundaranar University, Tirunelveli	2003
2	M.E.	Embedded Systems	Anna University, Chennai	2008
3	Ph.D	VLSI & Signal Processing	Anna University, Chennai	Pursuing

Professional Society Memberships

1. Indian Society of Technical Education: Life Member
2. International Association of Engineers : Life Member
3. Indian Science congress Association: Life Member

Publication Details

Journals:

1. S.Vanila,A.Rathinam,V.Natarajan, ," An FPGA Implementation of Improved AODV Routing Protocol for Route Repair Scheme", ICETET-2008. G.H.Raisoni College of Engineering.Nagpur –July 16-18, 2008.
2. T.Menaka, S.Vanila ,F.Agi Lydia ," Designing of Time and Power Efficient Model for Controlling of Critical Process", International Journal of Engineering Inventions, Volume 2, Issue 11, ,PP:32-37, July 2013.
3. T.Meenakshi and S. Vanila, ZVS Bidirectional LIC Resonator Converter for Charging and Discharging Battery by Fuzy Logic Controller, International Journal of Science And Innovative Engineering & Technology, 978-81-904760-8-9/ Peer/6.009, May- 2016
4. R Pavithra, PS Sangeetha, MS Devi, S Vanila Design and implementation of a rescue system for the safety of women by using Arduino Controller, International Journal OF Advance Research, Idea's & Innovations In Technology,May 2018.
5. Vanila.S, Akash Kumar.H, Balaganesan.M, Megavarshitha.P.V, Menaga.A Pest Imaging using IoT, International Journal of Engineering Science and Computing, March 2019 Volume 9 Issue No.3
6. Vanila.s,Dhivya prabha.V,Maria Lurdu Steffy.R,Monisha.J, Design Of Précised Anesthesia Injector, International journal of advance research and innovative ideas in education, Volume-6 Issue-2, 2020

Conferences:

1. S.Vanila, M.Ramakrishnan “Modified AODV for WSN using Tiny OS” national conference held at St.Joseph’s College of Engg, April 2008.
2. S.Vanila, M.Ramakrishnan “RSSI based Link Quality Estimation for Wireless sensor Networks” national conference held at RajaRajeswari Engineering College, Mar 2008.
3. S.Vanila, M.Ramakrishnan “Adaptive link Quality Estimation for WSN” in the national conference held at Arupadai Veedu Institute of Technology, Jan 2008.
4. S.Vanila, “FPGA Implementation of Secured AODV Routing Protocol for Ad-Hoc Networks” in the national conference held at Kalasalingam University.on 19 th Feb 2009 .
5. T.Menaka, S.Vanila ,F.Agi Lydia,” Designing of Time and Power Efficient Model for Controlling of Critical Parameters of Oil refinery through SIP using Microcontroller”, AEEA -2013, Velammal Institute of Technology, 3rd and 4th January 2013.,
6. P.Divya,S.Vanila,” Modeling and Parametric Design Optimization of Permanent Magnet Machines Using Differential Evolution and Computationally Efficient –FEA”,STRAEE14,Sethu Institute of Technology,21st March 2014.
7. T.Meenakshi and S. Vanila, ZVS Bidirectional LIC Resonator Converter for Charging and Discharging Battery by Fuzy Logic Controller, International Conference on Science and Innovative Engineering at Jawahar Engineering College, 3rd April-2016.
8. P.Gautham and S.Vanila, Speed Control of BLDC Multi-Motor Drive with Active Power Factor Correction, National Conference on Drastic Innovation in Energy Thrive (DIET`16) held at Anna University, Panruti Campus, 24th March 2016.
9. A.Rathinam, V.Padmanaba Sharma and S.Vanila, Fault classification in mixed signal, Circuits using ANN, Joint international conference on ICAIECES16& ICPCIT16, 19th May 2016.
10. S. Vanila, A.Dhanapriya, S.Kadhiravan, M.Mohamed Yusuf, S.Padmanabhan, Prevention of Oxygen Probe Damage in Rotary Hearth Furnace, International Conference on Emerging Trends in Science, Engineering & Technology, Jerusalem College of Engineering[ICETSET], Chennai – 600 1001,7thand 18th March 2017
11. A.Rathinam, A. Anusha, S.Vanila, S-transform based detection of faults in power transmission lines, Proceedings of the 9th national conference on mathematical techniques and their application(NCMTA), 27th and 28th Jan 2017
12. A.Rathinam, Ch. Harika, S.Vanila, Phasor measurement unit based wide area backup protection for transmission lines, Proceedings of the 9th national conference on mathematical techniques and their application(NCMTA), 27 and 28 Jan 2017.
13. R Pavithra, PS Sangeetha, M Shakthi Devi, S Vanila.” Design and Implementation of a Rescue System for the Safety of Women by using Arduino Controller”, International Journal of Advanced Res. Idea’s Innoative. Technology, 4, 329-333, 2018
14. Mrs.S.Vanila, Ms.Diviyapriya V, Ms.Maria Lurd Steffy R, Ms.Monisha J, “Design Of Precised Anesthesia Injector”, Vol-6 Issue-2 2020, IJARIE-ISSN(O)-2395-4396
15. Absara Mary.A, Iniyathan.R, Arul Murugan.T, Balaramakrishnan.B and Ms.S.Vanila, ‘Energy Theft Detection Issues For Advanced Metering Infrastructure using IOT in smart Grid’, International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 3, March 2021.
16. Jeya Seelan.S, Krittika.J, Cerene Eunice Getsiah.C, Arunachalam.B and Ms.S.Vanila, ‘IOT based intelligent helmet for miners’, International Journal of Electrical Engineering and Technology (IJEET) Volume 12, Issue 3, March 2021.

Research and Development Details

Other Particulars

SHORT TERM TRAINING PROGRAMMES /WORKSHOP/FDP/SEMINAR ATTENDED:

- Participated in the short term training program on “**Emerging Trends in Power Electronic Controllers**” held from 23rd to 28th February 2004 at SRM University.

- Participated in the workshop on “**Research Methodology and Skills** “in National Conference on Computational Intelligence in Power Apparatus and Systems by Prof.S.KARMALKAR, Department of Electrical Engineering, Indian Institute of Technology, on 17th Feb 2006. held at SRM UNIVERSITY.
- Participated in the “**UGC course on DSP, Embedded Systems**” held from 21 days in June 2006 at SRM University
- Participated in National Level Workshop on **Embedded Systems** on 19th august 2006 at St.Joseph’s College of Engineering, Chennai-119.
- Participated in one day workshop on” **Real Time Embedded Systems**” on 7th April 2007.
- Participated in the short term training program on “**Embedded Systems Applications to Electrical Engineering**” held from 15th to 17th MARCH 2007 at SRM University.
- Participated in the Short term course on “**Embedded System Design and Analysis of Wireless Embedded Technology**” held during 17th to 21st December 2007 at TIFAC-CORE, Velammal Engineering College, and Chennai-66.
- Participated in the short term course on “**Effective Class Room Management For Engineering College Teachers**” held from 15th to 17th MARCH 2007 at SRM University
- Participated in the short term course on “**RTOS for Real Time Embedded Systems**” held from 1st and 2nd February 2007 at College Of Engineering, Guindy, Anna University, Chennai-25.
- Participated in the short term course on “**Design of Engineering Apparatus**” held from 10th to 15thDecember 2007 at IIT, Madras
- Participated in the short term course on “**Arm Processor Based Embedded System Design**” held from 13th to 14th of August 2008 at National Engineering College, KovilPatti.
- Participated in the National Seminar on “**Research Challenges in Wireless sensor Networks**”” held on 3rd March 2010 at MIT, Annauniversity, Chennai.
- Participated in the National Workshop on “**Induction Heating**”” held on 12th July 2010 at Jerusalem College of Engineering, Chennai.
- Participated in the Faculty Development Program on “**EDA Tools for VLSI Design and signal processing**” held during 15th and 18th November 2010 at SSN College of Engineering
- Participated in the National Level Workshop on “**Wireless Protocol design using NS2**”” held on 14th & 15th February 2013 at Easwari Engineering College, Chennai.
- Participated in the National Level Workshop on “**High Performance & Reconfigurable Computing**”” held on 1st March 2013 at VIT, Chennai.
- Participated in the Faculty Development Program on “**Applied soft computing / intelligent control**”” held during 11th and 18th June 2013 at SSN College of Engineering.
- Participated in the Faculty Development Program on “**EE2351-Power System Analysis**” held during 9th and 16th December 2013 at Valliammai Engineering College.
- Participated in “**The Third International Workshop on Teaching and Learning in the twenty first century**” held on 17th December 2013 at B.S.Abdur Rahman University.
- Participated in the Faculty Development Program on “**EE6401-Electrical Machines-I**” held during 14th and 15th November 2016 at Valliammai Engineering College.
- Participated in the Faculty Development Program on “**VLSI Design**” held during 2nd and 3rd June 2016 at Valliammai Engineering College.
- Participated in the Faculty Development Program on “**Insights into Research**” held from 29th June 2017 at SRM University
- Participated in the Faculty Development Program on “**EE6503-Power Electronics**” held during 1st and 2nd June 2017 at Valliammai Engineering College.
- Participated in the National Level Workshop on “**Digital Control of Power Electronic Systems using dsPACE**” held from 21st to 22nd September 2017 at SRM University
- Completed the course on”**Embedded Wireless Networking Protocols**” from 15th to 20th June 2017, at Vee Eee Technologies Solution Private Ltd, Chennai.
- Attended national level workshop on “**Drafting and Patent Filing**” on 8th march 2018.
- Attended national level workshop on “**Current trends in VLSI testing and design**” on 8th march 2018.

- Attended national level workshop on “**Intellectual Property Rights**” by SRM-Ramapuram& Trichy on 22.04.20
- Attended national level webinar on “**How to get published in scientific journal :from research to publication**” by Sri sairam institute of technology on 27.04.20
- Attended Faculty Development Program on “**GLOBAL WARMING & IMPACTS OF POWER ELECTRONICS TOWARDS GREEN TECHNOLOGY**” by AICTE Training And Learning (ATAL) Academy during 24/5/2021 to 28/5/2020.
- Attended national level webinar on “**India First Leadership Talk webinar**” by MHRD’s Innovation Cell on 09.05.2020
- participated Faculty Development Program on “**Analog Electronics**” by SRM Valliammai engineering college during 11/05/2020 to 16/05/2020
- participated Faculty Development Program on “**Renewable energy system**” by SRM Valliammai engineering college during 11/05/2020 to 16/05/2020
- participated Faculty Development Program on “**Microprocessor & Microcontroller**” by SRM Valliammai engineering college during 11/05/2020 to 16/05/2020
- Attended Faculty Development Program on “**MATLAB Programming**” by NITTTR, Chandigarh during 11.05.20 to 15.05.20
- Attended national level webinar on “**Wind Energy Conversion System Challenges-A Global Perspective**” by SRM institute of technology on 19.05.20
- Attended Faculty Development Program on “**8051 and its applications**” by NITTTR, Chandigarh during 18.05.20 to 22.05.20
- Attended national level webinar on “**Computing Paradigms**” by Don Bosco College,Yellagiri hills on during 21.05.20 to 22.05.20
- Attended national level webinar on “**DC-DC converters on PV Systems**” by SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY on 23.05.2020
- Attended Faculty Development Program on “**Recent Trend VLSI Design**” by NITTTR, Chandigarh during 25.05.20 to 29.05.20
- Attended national level technical series on “**Technical Webinar Series**” by SRM Institute of Technology during 26.06.20 to 27.06.20
- Attended national level workshop on “**Simulation Driven Innovation for e-Mobility**” by Altair Engineering on 26.05.20
- Attended national level summit on “**Industry Institution summit3.0**” by IET,Chennai on 30.05.20
- Attended national level quiz on “**Digital Electronics**” by Mother Teresa Institute of Science and Technology on 07.06.20
- Attended national level quiz on “**Basics of EEE**” by Murugappa Polytechnic College on 07.06.20
- Attended Faculty Development Program on “**Waste Management**” by NITTTR, Chandigarh during 08.06.20 to 12.06.20
- Attended Faculty Development Program on “**Industrial Power System Protection and Control**” by SSN college of Engineering during 15.06.20 to 16.06.20
- Attended Faculty Development Program on “**Programme Real Time Hardware in the Loop(HIL) Simulation for Power Electronics & Power Systems**” by Rajkiya Engineering college, Mainpuri during 22.06.20 to 26.06.20
- Attended national level webinar on “**Virtual Conduct of Electrical Machines Laboratory**” by SRMIST, KATTANKULATHUR during 26.06.20 to 27.06.20
- Attended national level webinar on “**FPGA DESIGN**” by Sathyabama Institute of Science and Technology on 08.07.2020
- Attended national level webinar on “**Software Development Engineer in test**” by Loyola Institute of Technology on 09.07.2020
- Attended national level webinar on “**Prospects of Artificial Intelligence in Telecom networks**” by Francis Xavier Engineering College on 10.07.2020
- Attended national level webinar on “**Funded Research Projects: Success Practices and Opportunities**” by IET, Chennai on 18.07.2020

- Attended national level webinar on “**Learning Management System e-Learning Tools**” by SRMIST,RAMAPURAM on 20.07.2020
- Attended national level webinar on “**Technology Design and Management in future Urban Management**” by IET,Chennai on 01.08.2020
- Attended national level webinar on “**connected vehicles : vehicles to talk to each other**” by IET,Chennai on 01.08.2020
- Attended national level webinar on “**BENEFITS AND LEARNINGS FROM CORONO(TAMIL)**” by SRM Valliammai Engineering College on 7.08.2020
- Attended international level webinar on “**ABSTRACTING &INDEXING-how to get indexed and how to increase reserch impact**” by SPRINGER NATURE IN COLLABRATION WITH DELCONon 9.09.2020
- Attended national level short term course on “**Recent advancements in High Voltage Engineering (RHVE 2K20)**” by SRM valliammai engineering college during 02.11.20 to 07.11.20
- Attended Faculty Development Program on “**Wearable Devices**” by AICTE Training And Learning (ATAL) Academy during 30/11/2021 to 4/12/2020.
- Attended Faculty Development Program on “**Capacity Building of Women in Higher Education**” by AICTE Training And Learning (ATAL) Academy during 25/1/2021 to 29/1/2020.
- Attended Faculty Development Program on “**Linux for Engineering Applications**” by Computer Science and Engineering Department NITTTR, Chandigarh during 3.05.21 to 07.05.2021
- Attended national level short term course on “**Recent advancements in High Voltage Engineering (RHVE 2K21)**” by SRM valliammai engineering college during 03.02.21 to 09.2.2021.
- Attended national level short term course on “**Recent advancements in High Voltage Engineering (RHVE 2K21)**” by SRM valliammai engineering college during 03.03.21 to 09.3.2021.
- Attended Faculty Development Program on “**Recent Advancement in Machine Learning and Artificial Intelligence**” by Rajasthan Technical University, Kota,Poornima College of Engineering, Jaipur during 16/3/2021 to 20/3/2021.
- participated guest lecture on “**Recent Advancements in Biosensors**”by SRM Valliammai engineering college during 01.04.2021.
- participated Faculty Development Program on “**EE8702-Power System Operation and Control**” by SRM Valliammai engineering college during 17/05/2021 to 22/05/2021
- participated Faculty Development Program on “**1905503-Power Electronics**” by SRM Valliammai engineering college during 17/05/2021 to 22/05/2021
- participated Faculty Development Program on “**1905305-Circuit Theory**” by SRM Valliammai engineering college during 17/05/2021 to 22/05/2021
- Participated two weeks refresher course on “**teaching, Learning and Research Pedagogy for excellence in education**” by Sri Sairam Engineering college, Chandigarh during 31/05/2021 to 14/06/2021
- Attended Faculty Development Program on “**ECE Virtual Lab Practices using Free Online Simulations**” by NITTTR, Chandigarh during 14/06/2021 to 18/06/2021
- Attended workshop on “**Electrical Panel Drafting using AutoCAD**”by SRM Valliammai engineering college during 02.09.2021.
- Attended workshop on “**Grid Connected Solar PV Systems**” by SRM Valliammai engineering college during 29.9.2021
- Attended Faculty Development Program on “**Inculcating Universal Human Values in Technical Education**” by All India Council for Technical Education (AICTE) during 27.09.2021
- 01.10.2021
- participated international guest lecture on “**Artificial Intelligence in Electrical Engineering**” by SRM Valliammai engineering college during 11.10.2021.
- Attended workshop on “**Power System Stability Issues in Indian Grid**” by SRM Valliammai engineering college during 20.10.2021

SHORT TERM TRAINING PROGRAMMES /WORKSHOP/FDP/SEMINAR ORGANISED:

- Organized guest lecture in “**Embedded control systems**” on 23.07.2015

- Organized value added course in “**Foundation Course In Programming On Microcontrollers & Arm Processor**” on 16.02.2015 to 27.02.2015
- Organized value added course in programming on “**Microcontrollers, ARM Processor & RTOS**” on 20.07.2015 to 6.08.2015
- Organized workshop in “**Programming on Microcontrollers**” on 31.01.2015 at Karpaga Vinayaka Institute of Technology.
- Delivered Lecture in the Faculty Development Program on “**Embedded Systems**” held during 12th&13th January 2016 at Valliammai Engineering College.
- Delivered Lecture in the Faculty Development Program on “**VLSI Design**” held during 2nd and 3rd June 2016 at Valliammai Engineering College.
- Delivered Lecture in the Faculty Development Program on “**EE6303-Linear Integrated Circuits and Applications**” held during 27th June 2016 at Valliammai Engineering College.
- Organized Faculty Development Program in “**Electrical Measurements**” on 29th and 30th May 2017 at Valliammai Engineering College.
- Organized value-added course in “**Challenges and opportunities in embedded control and Instrumentation**” On 02.02.2018 to 6.03.2018.
- Organized and Delivered lecture on Faculty Development Program “**CS6303-Computer Architecture**” during 14th May 2018 to 15th May 2018.
- Delivered lecture on Faculty Development Program “**Electron devices and VLSI**” during 6th May 2019 to 10th May 2019.
- Organized international guest lecture on Faculty Development Program “**Cyber Security- an overview**” during 3rd October 2020
- Organized guest lecture on Faculty Development Program “**Micro and nano technology-An introduction and MEMS& commercial Micro sensors in novel applications**” during 18th Feb 2021
- Organized Online ATAL Faculty Development Program on “**Global Warming & Impacts of Power Electronics Towards Green Technology**” during 24.05.2021 to 28.05.2021
- Organized guest lecture on Faculty Development Program “**Embedded Based Applications in Electrical Engineering**” during 18th August 2021.

ONLINE COURSES COMPLETED:

- Completed NPTEL online courses on Digital circuits and systems during JAN-MARCH 2016.
- Completed NPTEL online courses on Wireless Ad Hoc and Sensor Networks during JAN-MARCH 2017.
- Completed NPTEL online courses on Computer Architecture during JUL-OCT 2018.
- Completed NPTEL online courses on Electronic Waste Management-Issues And Challenges during JUL-OCT 2018.
- Completed NPTEL online courses on Body Language: Key to Professional Success during JUL-OCT 2019.
- Completed Swayam online courses on orientation towards technical education and curriculum aspects on 27.02.2021
- Completed NITTTR module 5 online courses on Module 1_ orientation towards technical education and curriculum aspects during APR-MAY 2020.
- Completed NITTTR module 5 online courses on Module 5_ Technology Enabled Learning & Lifelong Self Learning during MAR-APR 2021.