



SRM Valliammai Engineering College

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

TEL : 044 - 27454784 / 726, FAX : 044 - 27451504

Department of Electronics and Instrumentation Engineering

Personal Details

Name :	V.MANGAIYARKARASI	
Designation :	ASST. PROF(Sr.Gr)	
Educational Qualification :	M.E.,	
Experience:	16 YEARS	
Area of Specialization :	PROCESS CONTROL &INSTRUMENTATION	
Date of Joining :	04/01/2008	
Email ID :	mangai.manikandan@gmail.com	
Contact Numbers :	044- 27454784	

Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	ECE	Oxford Engineering College/ Bharathidhasan University	2003
2	M.E.	PROCESS CONTROL &INSTRUMENTATION	Annamalai University	2005

Professional Society Memberships

1. Indian Society of Technical Education: Life Member
2. International Association of Engineers (IAENG): Life Member
3. ISC

Publication Details

International Conference:

1. Rajalakshmi K, and Mangaiyarkarasi V, “ Design of Internal Model Controller for a Heat Exchanger System” International Conference on Information Communication & Embedded Systems (ICIES 2013) on 21st& 22nd February 2013 in S.A Engineering College, Chennai, 2013
2. Sharmila.M and Mangaiyarkarasi.V, ”Performance Evaluation of PI and IMC Controller for Binary Distillation Column”, International Conference on Innovative Research in Engineering & Technology 2014(ICIRET-2014) on 2nd and 3rd May 2014, E.G.S Pillay Engineering College, Nagapattinam, 2014
3. Divya C.N and Mangaiyarkarasi.V, ”Design and Implementation of Electromagnetic Vibration Energy Harvester”, International Conference on Recent Innovations in Engineering & Technology (ICRIET’15) on 13th& 14th February 2015 , Mahabarathi Engineering College, Villupuram, 2015

National Conference:

1. Mangaiyarkarasi .V “ Design of Temperature Controller for a Heat exchanger system”, National conference on Modelling, Simulation and Optimization on 2nd November 2012 in the Department of Mechanical Engineering, VELS University, Chennai-117, 2012
2. Rajalakshmi .K and Mangaiyarkarasi .V” Controller Design for a Heat Exchanger System”, National Conference on Advances in Electrical Energy Applications(AEEA-2013) in the Department of Electrical & Electronics Engineering, Velammal Institute of Technology, Chennai, 2013
3. Rajalakshmi.K and Mangaiyarkarasi .V, “ Design of Controller for a shell and Tube Heat Exchanger system” National Conference on Intelligent Computing in Instrumentation and Communication(NCICIC-2013) on 25th March 2013 in the Department of Electronics & Instrumentation Engineering, Sri Sairam Engineering College, Chennai, 2013
4. Mangaiyarkarasi .V “Control of Heat Exchanger Using Internal Model Controller”, 2nd National Conference AGNICON 2013 on 26th March 2013, Agni College of Technology, Chennai, 2013
5. Sharmila.M and Mangaiyarkarasi .V”Modelling and Control of Binary Distillation Column”, National Conference on Innovative Techniques in Power Engineering & Drives (ITPED-2014) in the Department of Electrical & Electronics Engineering, Velammal Engineering College, Chennai, 2014
6. Sharmila M and Mangaiyarkarasi V. “Comparitive analysis of PI and IMC Controller for Binary Distillation Column” Proceedings of the National Conference on Social Transformation Through research achievements in Electrical Engineering STRAFE’14 on March 2014 in Sethu Institute of Technology, Virudhunagar, 2014
7. Divya C.N and Mangaiyarkarasi V, “Implementation of Linear Arrangement of Electromagnetic Vibration Energy Harvester ” 2nd National Conference on Emerging Trends in Eletronics, Instrumentation and Control(ETEIC 2015) on 11th April 2015 in the Department of Electronics & Instrumentation Engineering, Valliammai Engineering College, Chennai. 2015
8. Rahul.S and Mangaiyarkarasi .V,”Aquatic Monitoring Techniques (ROBOTIC FISH)”, National Conference on Communication& Computing(NCCC-16) on 9th March 2016 in the Department of Electronics & Communication Engineering, SRM University, Ramapuram Campus, Chennai, 2016

Journal Publications:

1. Mangaiyarkarasi V. and Sharmil M., “ Modeling and Control of Binary Distillation Column”, International Journal of Advanced research in Electrical, Electronics and Instrumentation Engineering, Vol.3, pp105-111,2014
2. Mangaiyarkarasi V. and Rahul S.,“ Design Modeling and Characterization of Robotic Fish for Aquatic Monitoring”, International Journal of Advanced Research in Electronics and Communication Engineering(IJARECE), Vol .5,No.2,pp 444-447,2016(Impact Factor: 4025)
3. Mangaiyarkarasi V. and Rajalakshmi M., “Control of Heat Exchanger Using Internal Model Controller”, International Organization of Scientific Research, Vol. 3, No. 7, pp 10-15, 2013
4. Mangaiyarkarasi V. and Divya C.N., “Electromagnetic Vibration Energy Harvester Using Labview”, International Journal of Electronics Communication & Instrumentation Engineering research and Development(IJECIERD), Vol. 5, No. 3, pp 51-60,2015
5. Mangaiyarkarasi V.,Aravindh B., Mohamed Famin and Akilandeswari .B, “Automated Medical Waste Segregation Machine Using Arduino Controller”, International Journal of Advanced research trends in Engineering and technology (IJARTET), Vol. 5, pp 30-36,2018
6. Mangaiyarkarasi V. et al., “Measurement of GHT(Glucose, Heart Rate, Temperature) Using Non- Invasive Method”, International Journal of Trend in Scientific Research and Development(IJTSRD), Vol. 3, No. 3, pp 135-137,2019
7. Dr.J.Manikandan ,V. Mangaiyarkarasi A.P (Sr.G.) and P. Subramanian published a paper titled ‘Performance Examination of OFDM Modulation Techniques in LTE 4G’, in the International Journal of Engineering and Advanced Technology (IJEAT) ,Volume 9, Issue2, Page No. 3401-3404,ISSN: 2249-8958,December-2019.
8. Ms.V.Mangaiyarkarasi.et al., “Advanced Driver Assistance System”,in International Journal of Advance Research and Innovative Ideas in Education,Volume: 06, Issue: 02,Feb 2020.
9. Ms.M.RamjanBegum&Ms.V.Mangaiyarkarasi,“Control of Single phase transformer-less Rectifier”, A Journal of Composition Theory,Volume XIV,Issue III, March 2021.
10. Ms.V.Mangaiyarkarasi.et al., “Virtual Fog Removal for Roadway Vehicles” in A Journal of Composition Theory(JCT) Volume XIV, Issue IV, APRIL 2021 ISSN : 0731-6755
11. Ms.V.Mangaiyarkarasi.et al., “A Smart Vehicle System For Accident Prevention Using Machine Learning” in A Journal of Composition Theory(JCT) Volume XIV, Issue III, MARCH 2021
ISSN : 0731-6755

Other Particulars

Resource Persons for FDP/STTP/ Value Added Course:

1. Acted as a resource person for the Value added Course on Virtual Instrumentation Using Labview conducted from 5th February to 23rd February 2016 at Valliammai Engineering College.
2. Acted as a resource person for the Value added course on Challenges and opportunities in Embedded control based Instrumentation conducted from 2nd February 2018 to 6th March 2018 at Valliammai Engineering College
3. Acted as a resource person for the Faculty Development Programme on VLSI Design on 2nd& 3rd June 2016 organised by the Department of Electronics& Instrumentation Engineering, Valliammai Engineering College, Chennai.
4. Acted as a resource person for the Faculty Development Programme on Control Of Process and the Concepts of Electrical Machines from 12th November to 17th November 2018organised by the Department of Electronics & Instrumentation Engineering, Valliammai Engineering College, Chennai.
5. Acted as a resource person for AICTE sponsored STTP on Modern Optimization Tools in Engineering Field-Iv (Season-4) from 16.11.2020 to 21.11.2020 organized by SRM valliammai Engineering College,Chennai
6. Acted as a resource person for AICTE sponsored STTP on on Applications of AI towards Industry 4.0 from 18.01.2021 to 23.01.2021 (Slot-3)) organized by Sri Sairam Engineering College.

Workshop/FDP/Webinar Attended:

1. Participated in the Workshop on Next Generation Wireless networks on 19th January 2015 at Valliammai Engineering College, Katankulathur
2. Attended one day workshop on Applied Cryptography organized by the Department of Computer applications and Indian Society for technical Education (ISTE) at PeriyarManiammai College of Technology for Women, Thanjavur on 25th March 2006
3. Attended one day workshop on Recent Trends in Sensor Technology organized by the Department of Electronics and Instrumentation Engineering, Vellammal Engineering College, Chennai on 31st July 2009.
4. Participated in the one day Seminar on Understanding Digital and Cellular Standards and their measurements conducted by the Department of Electronics Engineering, MIT Campus, Anna University and Agilent Technolgies on 30th April 2010.
5. Participated in Two days faculty Development Programme on Teaching and Learning Enhancement through Outcome Based Education Conducted at Valliammai Engineering College, Chennai on 7th and 8th December 2017

- 6.** Participated in Faculty Development Programme on EI6801 – Computer Control of Process Conducted at Valliammai Engineering College, Chennai on 21st and 22nd November 2017
- 7.** Participated in Faculty Development Programme on EE 2351 – Power System Analysis Conducted at Valliammai Engineering College, Chennai from 9th to 16th December 2013(ANNA UNIVERSITY)
- 8.** Participated in Faculty Development Programme on EE 6403 – Discrete Time Systems and Signal Processing Conducted at Valliammai Engineering College, Chennai on 7th& 8th March 2016
- 9.** Attended the Faculty Development Programme on Embedded Systems on 12th& 13th January 2016, organized by the Department of Electronics& Instrumentation Engineering, Valliammai Engineering College, Chennai.
- 10.** Attended Faculty Development Programme on Advanced Process Control & VLSI Design on 3rd April 2008 organized by the Department of Electronics & Instrumentation Engineering, Valliammai Engineering College, Chennai
- 11.** Participated in the Faculty Development Programme on EI6301 Electrical Measurements organized by the department of Electronics and Instrumentation Engineering, Valliammai Engineering College, Chennai on 29th& 30th May 2017
- 12.** Participated in the Faculty Development Programme on Control Of Process and the Concepts of Electricl Machines organized by the Department of Electronics & Instrumenation Engineering, Valliammmmai Engineering College, Chennai from 12th November to 17th November 2018
- 13.** Participated in the Faculty Development Program for the Subject EE6303 Linear Integrated Circuits and Applications organized by the Department of Elecctronics&Instrumenatation Engineering, valliammai Engineering College,Chennai, on 27th& 28th June 2016.
- 14.** Participated in the Faculty Orientation Programme on 30th& 31st December 2013 at Valliammai Engineering College, Chennai.
- 15.** Participated in the Faculty Development Programme for ‘Electronic Instruments and Control Systems’ from 18-11-2019 to 22-11-2019, organized by the Department of Elecctronics& Instrumenatation Engineering, SRM valliammai Engineering College,Chennai.
- 16.** Participated in the Faculty Development Programme for ‘EE8591-Digital Signal Processing’ from 10-6-2019 to 15-6-2019, organized by the Department of Elecctronics&Instrumenatation Engineering, SRMvalliammai Engineering College,Chennai. (ANNA UNIVERSITY)
- 17.** Participated in the Faculty Development Programme for ‘Image and Embedded Processing ‘from 27.04.2020 to 01.05.2020, organized by NITTTR, Chandigarh.
- 18.** Participated in the Faculty Development Programme for ‘Data Science Using R’ from 11.05.2020 to 15.05.2020, organized by NITTTR, Chandigarh .

- 19.** Participated in MHRD sponsored Refresher Course on Recent trends in Innovation, Computing, Communication and teaching Methodology Competency from 04.05.2020 to 17.05.2020 organized by Sri Sairam Engineering College.
- 20.** Participated in MHRD sponsored Refresher Course on Recent trends in Electrical, Electronics, Instrumentation, Automation and Teaching Pedagogy from 18.05.2020 to 30.05.2020 organized by Sri Sairam Engineering College.
- 21.** Participated in FDP on Data Science Using R and Python from 20.04.2020 to 30.05.2020 organized by Spoken Tutorial Project, IIT Bombay
- 22.** Participated in FDP on Artificial Intelligence from 07.12.2020 to 11.12.2020 organized by AICTE Training and Learning Academy(ATAL)
- 23.** Participated in FDP on Internet of Things(IoT) from 21.12.2020 to 25.12.2020 organized by AICTE Training and Learning Academy(ATAL)
- 24.** Participated in AICTE sponsored STTP on Modern Optimization Tools in Engineering Field-I (Season-1) from 05.10.2020 to 10.10.2020 organized by SRM valliammai Engineering College,Chennai
- 25.** Participated in AICTE sponsored STTP on Modern Optimization Tools in Engineering Field-II (Season-2) from 19.10.2020 to 24.10.2020 organized by SRM valliammai Engineering College,Chennai
- 26.** Participated in AICTE sponsored STTP on Modern Optimization Tools in Engineering Field-III (Season-3) from 02.11.2020 to 07.11.2020 organized by SRM valliammai Engineering College,Chennai
- 27.** Participated in AICTE sponsored STTP on Modern Optimization Tools in Engineering Field-V (Season-5) from 07.12.2020 to 12.12.2020 organized by SRM valliammai Engineering College,Chennai
- 28.** Participated in AICTE sponsored STTP on Applications of AI towards Industry 4.0 from 16.11.2020 to 21.11.2020 (Slot-1) organized by Sri Sairam Engineering College.
- 29.** Participated in AICTE sponsored STTP on Applications of AI towards Industry 4.0 from 14.12.2020 to 19.12.2020 (Slot-2) organized by Sri Sairam Engineering College.
- 30.** Participated in AICTE sponsored STTP on Applications of AI towards Industry 4.0 from 18.01.2021 to 23.01.2021 (Slot-3)) organized by Sri Sairam Engineering College.
- 31.** Participated in Webiner on STRESS MANGEMENT on 23.06.2020 organized by Avinashilingam Institute for Home Science and Higher Education for Women
- 32.** Participated in WEBINER on Emerging Trends in VLSI on 24.06.2020 organized by Sri Venkatesara College of Engineering &Technology
- 33.** Participated in FDP On Electron devices, Microprocessors and Image Processing from 11.05.2020 to 15.05.2020 organized by SRM valliammai Engineering College,Chennai

- 34.** Participated in Webiner on Applied Artificial Intelligence on 22.06.2020 organized by FRANCIS XAVIER Engineering College.
- 35.** Participated in FDP on Get Ready for AI ITH matlab and Simulink from 18.06.2020 to 20.06.2020 organized by Sri Sairam Engineering College.
- 36.** Participated in Webinar on Need of Industrial Automation for Modern Electrical Engineer on 23.05.2020 organized by Mohammed SathaK Engineering College
- 37.** Participated in Webinar on Robotics & its future on 29.06.2020 organized by SRM Valliammai Engineering College.
- 38.** Participated in FDP on Emerging Technologies in Electronics and Communication Engineering and Computing from 04.06.2020 to 06.06.2020 organized by VelTech HighTech Dr.Rangarajan Dr.Sakunthala Engineering College
- 39.** Participated in Webinar on Automation for Process Industries in 11.05.2020 organized by Karpagam College of Engineering
- 40.** Participated in Webinar on Artificial Intelligence in 06.05.2020 organized by Mahindra Institute of Technology.
- 41.** Participated in Course on Artificial Intelligence and Drug Discovery in 20.04.2020 organized by Shri Vithal Education and Research Institute's College of Pharmacy.
- 42.** Participated in Webinar Series on Future is Here Now from 27.04.2020 to 01.05.2020 organized by ICT Academy.
- 43.** Participated in Workshop on Intellectual Property Rights on 22.04.2020 organized by SRM Group of Institutions, Ramapuram and Trichy Campus.
- 44.** Participated in Webinar Series on Future of Education, Employment and Entrepreneurship from 04.05.2020 to 08.05.2020 organized by ICT Academy.
- 45.** Participated in Webinar on How to get published in Scientific Journal: from research to Publication on 27.04.2020 organized by Sri Sairam Institute of technology .
- 46.** Participated in Webinar on Web development and App development using Angular on 25.04.2020 organized by Karpaga Vinayaga College of Engineering and Technology
- 47.** Participated in Workshop on How to Write an Effective Research paper for Peer Reviewed Journals on 24.04.2020 organized by SRM Group of Institutions, Ramapuram and Trichy Campus.
- 48.** Participated in Webinar on Overview on VLSI on 04.06.2020 organized by Geetanjali Institute of Science and technology.
- 49.** Participated in Webinar on Basics of Machine Learning on 05.05.2020 organized by St.Peters College of Engineering and technology.
- 50.** Participated in Webinar on Industrial Automation and SCADA on 18.06.2020 organized by New Horizon College of Engineering.
- 51.** Participated in Webinar on How to write a funding proposal on 20.06.2020 organized by Sri Venkatesara College of Engineering &Technology.

52. Participated in FDP on Essentials of Outcome Based Education from 15-03-21 to 19 -03 21 organized by Dr.MGR Educational and Research Institute.

53. Participated in ISTE Sponsored FDP on Bio-Inspired Learning from 20-12-21 to 24-12-21 organized by Sri Sairam Engineering College.

NITTTR modules :

→ Completed the 8 weeks course on Module 1 : Orientation Towards Technical Education and Curriculum Aspects in March 2021

NPTEL online Courses:

→ Completed the 4 weeks course on Gender Justice and Workplace security with Elite category in Sep2018

→ Completed the 4 weeks course on Outcome Based Pedagogic Principles for Effective teaching with Elite category in Aug 2017

→ Completed the 4 weeks course on Introduction to research in March 2016

→ Completed the 12 weeks Course on Discrete Time Signal Processing in March2017

→ Completed 4 Weeks Course on Stress Management in Sep2018.

→ Completed 4 weeks course on Body Language in sep2019

OTHER CERTIFICATE COURSES:

→ Completed Online Course on NoSQL and DBaaS101 in 03.05.2020 organized by Future Skills Nasscom

→ Completed Online Course on Moving Data into Hadoop in 21.04.2020 organized by Future Skills Nasscom

→ Completed Online Course on Course on Hadoop 101 in 20.04.2020 organized by Future Skills Nasscom

→ Completed Online Course on Introduction to Artificial Intelligence in 11.04.2020 organized by Simplilearn

→ Completed Online Course on Cyber Security in 12.04.2020 organized by Simplilearn

→ Completed Online Course on Artificial Intelligence for Beginners: Neural Networks in 20.04.2020 organized by Udemy.

Professional Affiliation:

Name of the Professional Body	Year of Member
Indian Society of Technical Education	Since 2015
International Association of Engineers	Since 2014
Indian Science Congress Association	Since 2012

Producing 100%Result:

- EI8691-Computer Control of Processes :Awarded for producing 100% result during the academic year 2019-2020
- 1913212- Industrial Data Networks :Awarded for producing 100% result during the academic year 2019-2020
- EI6601 – Modern Electronic Instrumentation: Awarded for producing 100% result during the academic year 2016-2017
- CL7103 – System Theory: Awarded for producing 100% result during the academic year 2014-2015
- CL 7201 – Process Dynamic & Control: Awarded for producing 100% result during the academic year 2014-2015
- CL 7201 – Process Dynamics and Control: Awarded for producing 100% result during the academic year 2013-2014
- CL9321 – Computer aided design of Instrumentation: Awarded for producing 100% result during the academic year 2012-2013
- CL7103 – System Theory: Awarded for producing 100% result during the academic year 2013-2014
- Professional Ethics in Engineering: Awarded for producing 100% result during the academic year 2013-2014