




THAMIRABHARANI ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Chathirampudukulam, Chidambaranagar - Vepemkulam Road

Thatchanallur, Tirunelveli 627 358, Tamil Nadu.

FACULTY PROFILE

PERSONAL DETAILS							
Name & Qualification	Dr. S. Murugan & B.E., M.E., Ph.D						
Designation	Professor						
Department	ECE						
Total Teaching Experience	13 Years 2 Months						
Total Research Experience	-						
Total Industry Experience	1 Year						
Area of Specialization	Control & Instrumentation						
Email ID	murugans@tec-edu.in						
							
				EDUCATION DETAILS			
				Degree	Branch/ Specialization	University	Year
				UG	Electronics and Instrumentation Engineering	Manonmaniam Sundaranar University	2002
PG	Control and Instrumentation Engineering	Anna University	2005				
Ph. D	Faculty of Electrical Engineering	Anna University	2018				
RESEARCH / PUBLICATION DETAILS							
Publications in Journal							
1. R. Remya, S. Murugan & K. Parimala Geetha, Brain tumor findings in patient with a novel cascaded function, Springer publications , Signal, Image and Video Processing, 2022, https://doi.org/10.1007/s11760-021-02107-w . (I.F: 2.157)							
2. R. Remya, K. Parimala Geetha & S. Murugan, A series of exponential function, as a novel methodology in detecting brain tumor, Elsevier publications , Biomedical Signal Processing and Control, Vol. 62, 2020, page.102158. (I.F: 3.880)							
3. A. Ashwini & S. Murugan (2020): Automatic Skin Tumour Segmentation Using Prioritized Patch Based Region – A Novel Comparative Technique, Taylor & Francis publications , IETE Journal of Research, DOI:10.1080/03772063.2020.1808091. (I.F: 2.333)							
4. S. Murugan & Dr. SP. Umayal, ‘A Novel Non-linearity Compensation Technique to Improve the Linearity Characteristic of Photoelectric Displacement Sensor based on Extreme Learning Machine Method’, Photonic sensors, Springer publications , Vol. 5 No. 1, 2015, pp.24-31. (I.F: 2.433)							
5. S. Murugan & Dr. SP. Umayal, ‘An Evolutionary Optimized Algorithm Approach to Compensate the Nonlinearity in Linear Variable Displacement Transducer Characteristics’, Journal of Electrical Engineering and Technology , Vol. 9, No. 6, November 2014, pp. 2142-2154. (I.F: 1.069)							

6. S. Murugan & Dr. SP. Umayal, 'A Novel Nonlinearity Compensation Method to Improve the Linearity Characteristics of Constant Temperature Anemometer using Optimized Evolutionary Algorithms', **Research India Publications**, International Journal of Applied Engineering Research, Vol. 9 No. 23, December 2014, pp. 21639-21656. (I.F: 0.628)
7. S. Murugan & Dr. SP. Umayal, 'Nonlinearity Compensation of Linear Variable Displacement Transducer based on Differential Evolution Algorithm', **Australian Journal of Basic and Applied Sciences**, Vol. 8 (16) October 2014, pp.1-10. (I.F: 0.786)
8. M.S.Devi, & S. Murugan, 'An Evolutionary Optimized Nonlinearity Compensation Technique to Improve the Linearity Characteristic of Thermocouple Sensor', **Research India Publications**, International Journal of Applied Engineering Research, Vol. 10 No. 1, 2015, pp. 945-951. (I.F: 0.628)
9. S. Murugan & Dr. SP. Umayal, 'A Case Study on Enhancing the Performance of Linear Variable Differential Transformer by using ANN Based Temperature Compensation Circuits', **European Journal of Scientific Research**, Vol. 96 No 1 February, 2013, pp.7-16. (I.F: 0.713)
10. A. Ravi, S. Murugan, J.Daniel Sathyaraj, R.Aandal, 'A Fuzzy Logic Controlled Solar Power Generation with Integrated Maximum Power Point Tracking using Multi-level inverter', **Research India Publications**, International Journal of Applied Engineering Research, Volume. 14. No. 10, 2019, pp.2315-2326. (I.F: 0.628)
11. S. Murugan & SP. Umayal, 'A Review on Enhancing the Linearity Characteristic of Different Types of Transducers-A Comparative Study', International Journal of Modern Engineering Research (IJMER), Vol.3, Issue.2, March-April. 2013, pp-1186-1191.
12. S. Murugan & SP. Umayal, 'Identification of Nonlinearity in Linear Inductive Transducer', International Journal of Computer Science Engineering (IJASCSE), Vol.2, Theme based Issue.3, November 2013, pp-24-29.
13. S.Murugan, SP.Umayal, K.Srinivasan & M.Aruna, 'Nonlinearity Error Compensation of Venturi Flow Meter using Evolutionary Optimization Algorithms', International Journal for Innovative Research in Science & Technology, Volume 3, Issue 07, 2016, pp-30-39.
14. S.Murugan, B.Rupanraj, K.Saminathan & S.Sivaraman, 'Configuration and Augmentation of Solar Humidifier System', International Journal of Research in Advanced Technology – IJORAT, Volume 3, Issue 3, 2018, pp.1-4.
15. M.Sumathy, S.Murugan & A.Gnanasaravanan, 'WDO based Security Constrained Unit Commitment with Flexible Set for Variable Wind Power' Journal - ICON (Integrated concepts), Volume. 3. Issue. 1, 2018, pp.7-15.
16. S.Murugan, M.Marimuthu, N.R.Shakthy, T.Vekatesh & J.Yogesh Madhavan, 'Generation of Electric Power using Wind Energy through Moving Vehicles' International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Volume. 8. Issue. 11, 2019, pp.2507-2514.

Conference Proceedings

1. S. Murugan & Dr. SP. Umayal, 'A Review on Enhancing the Linearity Characteristic of different types of Transducers- A Comparative Study', International Conference on Instrumentation, Communication, Control and Automation- ICICCA 2013, 4th and 5th January 2013, Kalasalingam University, Krishnankovil, Tamil Nadu, India
2. S. Murugan & Sudhakar Gummadi, Sensor Fusion in Time Triggered Network, National Conference on Recent Advances in Industrial Automation and Networking- RAIN 2005, Department of Electronics and Instrumentation Engineering, Noorul Islam College of Engineering, Thackalay.

Books / Chapters Published				
NIL				
Fund Received				
Sl. No.	Sponsored Agency	Title of the Project	Period	Amount
1	AICTE- Short Term Training Programme (STTP) under AQIS	Short Term Training Programme on 'Research perspectives & Sustainable applications of artificial intelligence in Electrical Engineering'	2018-19	Rs. 2,55,666
Patent Applied / Published / Granted				
1. Dr.G.Rajakumar, Dr.N.Muthukumaran, Dr.T.Samraj Lawrence, Dr.S.Chidambaranath, Dr.S.R.Boselin Prabhu, Dr. R. Kabilan, Mr. T. Vinoth kumar and Dr. S. Murugan, A METHOD AND DEVICE: REAL TIME MONITORING OF PATIENTS, Application No.201941044451A, The Patent Office Journal No. 46/2019 Dated 15/11/2019, Page: 53991. http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_4809_1/Part-1.pdf				
CITATIONS		14		
H-INDEX		2		
RESEARCH GUIDANCE DETAILS				
Sl. No.	University	Supervisor ID / Reference		
1	Anna University	3430008		
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS				
Sl. No.	Professional Society Name	Member ID		
1	International Association of Engineers (IAENG)	186896		
2	International Society for Research and Development (ISRD)	M4150904679		
3	International Association of Academic Plus Corporate (IAAC)	FRTJQC-CE004169		

FACULTY DEVELOPMENT PROGRAMME(FDP) ATTENDED / ORGANIZED			
Sl. No.	Name of the FDP	Name and address of the venue	Year
1	IPR awareness/training program	National Intellectual Property Awareness Mission (NIPAM) at Thamirabharani Engineering College.	2023
2	IoT based automatic Real time applications using Arduino Controller	Department of EEE-Francis Xavier Engineering College, Tirunelveli	2017
3	Electrical CAD	Department of EEE-Francis Xavier Engineering College, Tirunelveli	2017
4	Introduction to Robotics -eYantra	Anna University, Chennai	2017
5	Research perspectives and challenges in instrumentation aspects of IoT	National Engineering college, Kovilpatti	2017
6	IoT based Raspberry Pi Design	Department of EEE-Francis Xavier Engineering College, Tirunelveli	2017
7	Contemporary Research avenues and challenges in intelligent control systems using LabVIEW.	Department of EEE-Francis Xavier Engineering College, Tirunelveli in association with National Instruments, Bangalore.	2016
8	Organized Anna University sponsored seven days faculty development & training programme on solid state drives.	Department of EEE-Francis Xavier Engineering College, Tirunelveli in association with Anna University, Chennai.	2016
9	Modern Trends in Power Electronics	Department of EEE-Francis Xavier Engineering College, Tirunelveli in association with METLAB Equipments, Chennai	2008
10	Advancements in Medical Engineering towards Research	Department of EIE-National Engineering College, Kovilpatti in association with Indian Council of Medical Research(ICMR)-Govt of India, New Delhi	2008
11	Recent Trends in High Voltage Engineering & Technology-REHIVE'2008	Department of EEE-National Engineering College, Kovilpatti	2008
12	Industrial Automation using Embedded System	Department of EEE-Francis Xavier Engineering College, Tirunelveli in association with GAARK Micro Electronic Devices-Coimbatore	2007
ADDITIONAL RESPONSIBILITIES			
Sl. No.	Responsibilities	Description	Year
1	Research Coordinator	To coordinate research activities such as paper publication in journals, patent filing, funded projects, research guidance etc.,	2023 onwards
2	R&D Cell Coordinator	To establish and maintain Research Laboratory (Renewable Energy data analysis & Signal Processing Laboratory)	2023 onwards

3	NPTEL SPOC	Displays brochures on notice boards provided by NPTEL. Publicize the courses amongst the students and faculties and inform them about the courses being offered currently. Along with the team encourage students and faculties to enroll in the courses before the last enrolment date.	2023 onwards
AWARDS / ACHIEVEMENTS			
Sl. No.	Awards/ Achievements	Description	Year
1	Active SPOC award by NPTEL	Based on performance & Participation of candidates for the July-Dec 2019, NPTEL appreciated as an active SPOC at Francis Xavier Engineering College, Tirunelveli.	2019
2	Reviewer in Global Research and Development Journals	Recognized reviewer in the peer process for GRD journals in the paper publication	2019 onwards