

PERSONAL DETAILS AND AFFILIATION		
Name of the Faculty Member	Dr.V.SURESH	
Designation	PROFESSOR	
Department	Electronics and Communication Engineering	
Date of joining the institution	07.08.2003	
Address for Communication	Department of ECE, National Engineering College, K.R.Nagar, Kovilpatti- 628503.	
Email ID	vsece@nec.edu.in	
Web ID	https://vidwan.inflibnet.ac.in//profile/180251	

EDUCATIONAL QUALIFICATION				
DEGREE	BRANCH	INSTITUTION STUDIED	UNIVERSITY	YEAR
B.E.	ECE	A.K.C.E.	M.K. UNIVERSITY	APRIL 2000
M.E.	PCI	ANNAMALAI UNIVERSITY	ANNAMALAI UNIVERSITY	DECEMBER 2002
Ph.D.	ELECTRICAL	ANNA UNIVERSITY	ANNA UNIVERSITY	AUGUST 2018

EXPERIENCE						
S.NO.	NAME OF THE INSTITUTION /ORGANIZATION	POSITIONHELD	FROM	T O	EXPERIENCE	
					Y	M
1	Maharaja Engg. College, Avinasi.	Lecturer	08.01.2003	05.08.2003	0	8
2	National Engg. College, Kovilpatti	Lecturer	07.08.2003	31.05.2008	04	10
3		Asst. Professor (Re designated as AP(SG) on 01.11.2011)	01.06.2008	09.07.2013	05	01
4		Asso. Professor	10.07.2013	27.07.2020	07	00
5		Asso. Professor (ECE)	28.07.2020	30.06.2026	05	11
6.		Professor	01.07.2026	Till date	00	1
As on July 2026					23	07

FUNDED PROJECTS			
S.NO	TITLE OF THE PROJECT & ROLE	AGENCY	DURATION
1	Development of Hall Sensor array based Magnetic Flux Leakage (MFL) system for non-destructive imaging and evaluation of localized defects in ferromagnetic steam generator tubes Amount: Rs. 23,44,750/- (Co-Investigator)	Board of Research in Nuclear Science (BRNS)	2011 – 2014

PH.D SCHOLAR DETAILS					
NAME OF THE RESEARCH SCHOLAR	YEAR & MODE OF RESEARCH	REG. NO.	INSTITUTION	UNIVERSITY	STATUS
Mr. S. Valai Ganesh	JUL 2021 PT	21152897296	Ramco Institute of Technology	Anna University	Completed
Mr. T. Selva Sundar	JUL 2021 PT	21132897294	Ramco Institute of Technology	Anna University	DC-Meet-1 completed
Mrs. Ezhil E Betronila	JUL 2024 PT	24249897261	Loyola Institute of Technology & Science, Nagercoil	Anna University	DC-Meet-2 Confirmation completed
Mrs. Jane Rajathi S	JUL 2024 PT	24249897244	SCAD college of engineering & technology Tirunelveli	Anna University	DC-Meet-1 completed
Akalya Devi G	JAN 2026 PT	26249891214	National Engineering College	Anna University	DC-Meet-1 completed

PATENT PUBLISHED				
S.NO	TITLE OF THE INVENTION	NAME OF INVENTOR	APPLICATION No	PUBLICATION DATE
1	AN APPARATUS FOR THE LOCOMOTION OF VISUALLY IMPAIRED PERSONS	Dr. V. Suresh A. Jefferson John S. Arjune	202041007308	Application Published Date: 28 February 2020 Granted on 27 th May 2024

PUBLICATIONS

INTERNATIONAL / NATIONAL JOURNALS

1.	Valai Ganesh. S , Suresh. V, Godwin Barnabas. S, 2025, 'Predictive Analysis and Data-Driven Approaches for Developing Sustainable Municipal Solid Waste Management Strategies in Smart Cities: A Case Study of Madurai', Iranian Journal of Chemistry and Chemical Engineering, Vol. 44, Issue 7, Page No.1976-1993 (Impact Factor : 1.9), https://doi.org/10.30492/ijcce.2025.2047839.6920 ,
2.	S. Valai Ganesh, V. Suresh, S. Rajakarunakaran and V. Suryakumar 2025, 'Sustainable electronic waste management framework for academic institutions in India', Scientific Reports (2025) 15:40550. , https://doi.org/10.1038/s41598-025-24278-z , IF:3.9
3.	S. Valai Ganesh, V. Suresh, S. Godwin Barnabas, S. Rajakarunakaran, 2025, 'Exploring Sustainable Futures: Strategic Transitions in India's Urban Waste Scenario- A Comprehensive Review', Environmental Engineering and Management Journal (Impact Factor : 0.9, DOI: 10.30638/eemj.2025.162 , http://www.eemj.icpm.tuiasi.ro/ -
4.	S. Valai Ganesh, V. Suresh, S. Godwin Barnabas, S. Rajakarunakaran 2024, 'Innovative solid waste management strategies for smart cities in Tamil Nadu: challenges, technological solutions, and sustainable prospects', Discover Applied Science, vol. 6, 660. https://doi.org/10.1007/s42452-024-06404-0 (2023 Impact Factor: 2.8) (Scopus, ESCI Indexed), https://link.springer.com/journal/42452 .
5.	V. Suresh, A. Abudhahir, and Jackson Daniel, "Characterization of Defects on Ferromagnetic Tubes Using Magnetic Flux Leakage", IEEE TRANSACTIONS ON MAGNETICS, VOL. 55, NO. 5, MAY 2019. (Impact Factor: 1.651)
6.	J. Sam Alaric, V. Suresh, A. Abudhahir, M. Carmel Sobia and M. Baarkavi, "Theoretical Analysis of the Rectangular Defect Orientation using Magnetic Flux Leakage", DE GRUYTERS published Measurement Science Review, Vol. 18(2018), No. 1, 28-34. (Impact Factor: 1.122)
7.	V Suresh, A Abudhahir and Jackson Daniel, "Development of magnetic flux leakage measuring system for detection of defect in small diameter steam generator tube", Elsevier published Measurement Vol. 95 (2017) 273–279 (Impact Factor: 1.825)
8.	V. Suresh and A. Abudhair, "Dipole Model to Predict the Rectangular Defect on Ferromagnetic Pipe", The Korean Magnetics Society published Journal of Magnetics Vol. 21 (2016), No.3, 437-441. (Impact Factor: 0.548)
9.	V. Suresh and A. Abudhahir, "An Analytical Model for Prediction of Magnetic Flux Leakage from Surface Defects in Ferromagnetic Tubes", De Gruyters published Measurement Science Review, Vol. 16(2016), No. 1, 8-13. (Impact Factor: 0.965)
10.	V. Suresh, A. Hathimary, Dr. A. Abudhahir and N. Chermakani, "Theoretical Analysis of Magnetic Flux Leakage Signal from Arbitrary Oriented Rectangular Defect in Ferromagnetic Pipe", International Journal of Applied Engineering Research, Vol. 10, 2015 pp 14957-14962.
11.	V. Suresh, M. Vivekanandan, Dr. A. Abudhahir and N. Chermakani, "Development of Imaging System for Defect Detection on Steam Generator Tubes", International Journal of Applied Engineering Research, Vol. 10, 2015 pp 15031-15035.

12.	V.Suresh, V.K.Gopperundevi, Dr.A.Abudhahir, R.Antonysamy and K.Muthukkutti, "Simple Algorithm for the Magnetic Field Computation in Bobbin Coil Arrangement ", International Journal of Innovative Research in Computer and Communication Engineering, Vol.02, 2014
13.	V. Suresh, A.N.AbdulHaq and A. Abudhahir, "Simulation Study of Different Magnetizers for MFL Testing in Steel Tubes", Journal of Emerging Technologies – Electrical Engineering, Special Issue – ICBDM 2013, Vol.01 No.01

CONFERENCES

1.	Vaikundam Suresh., Palavesam P.D., Murugan K., Sivanesakumar B., 2023, Design and development of health monitoring system using sensor, Aip Conference Proceedings 2831(1), https://doi.org/10.1063/5.0164395
2.	Suresh V., Ulaganathan M.S., Muniraj R., Raja S.E., Jarin T., 2024, Realization of PIC-Controlled hardware and Simulink model of frequency regulation using HHO algorithm, Aip Conference Proceedings 3037(1), https://doi.org/10.1063/5.0196354
3.	HariniAkshaya.T.J., Suresh.V., Carmel Sobia.M, "An Extensive Study on the Optimization Techniques and its Impact on Non-linear Quadruple Tank Process", International Conference on Information Management & Machine Intelligence (ICIMMI-2019), Poornima Institute of Engineering & Technology, Jaipur 14-15 December 2019.
4.	KalyaniSundaram, Suresh V and Jackson Daniel, "Modeling and Analysis of PID controller Performance in QIP" 2nd International Conference on Recent Advances in Engineering and Technology, Sri Krishna college of engineering and technology, Coimbatore, Tamilnadu, 8th & 9th Feb.2019. ISBN No. 978-93-87862-50-0, pp no. 871-875.
5.	K.Marimuthu ,S.Chokkalingam ,P.Selva and V.Suresh, " GSM Based Smart Energy Meter", International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR -2018)19th- 20th April, 2018 Thoothukudi, Tamilnadu.
6.	M.Baarkavi, V.Suresh and M.CarmelSobia, "Analytica Model to Detect the Orientation of the Rectangular Defect Using Magnetic Flux Leakage Technique" International Conference on Emerging Trends in Engineering & Technology (ICETET 2K16), Arunachala College of Engineering for women, Kanyakumari, Tamilnadu,09th& 10th December 2016.
7.	S N. Poornima, V. Suresh and J. BabithaThangamalar, "Imaging of Steam Generator Tube using Magnetic Flux Leakage Technique", Third International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS'16), Karpagam College of Engineering, Coimabtoe, Tamilnadu,17-18th March 2016.
8.	K.Gopinath, V.Suresh and Dr. A. Abudhahir, "3D Modeling of MFL Inspection System to Detect the Defects on the outer surface of Small bore Tube", International Conference on Innovations in Information Embedded and Communication Systems- (ICIIECS'14) , Karpagam college of Engineering, Coimbatore, 13th & 14th March 014.
9.	N.Chermakani, V Suresh, A Abudhahir and PritheeMadan, "Frequency Response Based PID controller Design With Setpoint Filter", IJCA Proceedings on International Conference on Innovations In Intelligent Instrumentation, Optimization and Electrical Sciences, 2013, Vol. 01, PP. 25-28.

10.	Manjanajothi, A Abudhahir and V Suresh, "Impact of Sensor NonLinearity on the Performance of a Closed Loop Process Control System", International conference on innovations in Intelligent Instrumentation, Optimization and Signal Processing (ICIIOS 13), Karunya University, Coimbatore, March 2013.
11.	A.N.AbdulHaq, V.Suresh, A.Abudhahir and Jackson Daniel, "Numerical analysis of Magnetic flux leakage Inspection of Outer Side defect on Steel Tube Using Inner Coil Arrangement", National conference on "Recent Trends in Instrumentation Application "(RETINA'15), National Engineering College, Kovilpatti,Tamilnadu, 26th & 27th February 2015
12.	V. Suresh, A. Hathimary, Dr. A. Abudhahir and N. Chermakani, "Numerical analysis of Magnetic flux leakage Inspection of Outer Side defect on Steel Tube Using Inner Coil Arrangement", Recent Trends in Instrumentation Applications – RETINA'15, National Engineering College, Kovilpatti, 26th & 27th February 2015.
13.	V. Suresh, V.Rajinikanth and Sri Madav Raj, "Process Monitoring and Control using Virtual Instrumentation", National conference on Recent Trends in Instrumentation Applications – RETINA'04, National Engineering College, Kovilpatti, December 23rd & 24th 2004.

LIST OF BOOK CHAPTERS

1.	Suresh V., Harini Akshaya T.J., Carmel Sobia M., 2020, Transforming biomedical applications through smart sensing and artificial intelligence, Deep Neural Networks for Multimodal Imaging and Biomedical Applications, DOI: 10.4018/978-1-7998-3591-2.ch012
2.	Building smart bot designs for library assistance Ganesh, S.V., Suresh, V., Barnabas, S.G., Rajakarunakaran, S. Robotics and Automation in Healthcare Advanced Applications, 2024, pp. 21-44
3.	Advancements in mechatronic systems for manufacturing, robotics, and automation Yaskawa Motoman GP12 robot applications Valai Ganesh, S., Suresh, V., Godwin Barnabas, S., Rajakarunakaran, S Mechatronics Concepts Tools Applications and New Trends, 2025, pp. 116-140
4.	Adaptive Learning Technologies: Navigating the Road from Hype to Reality Ganesh, S.V., Nayagam, M.G., Suresh, V., Rajakarunakaran, S., Bensujin, B. Multimodal Generative AI, 2025, pp. 79-113

WORKSHOPS/ SEMINARS/ CONFERENCES/TRAINING PROGRAMMES / EVENTS ORGANIZED

S.NO.	NAME OF THE PROGRAMME & VENUE	FUNDING AGENCY	NO. OF PARTICIPANTS	RESPONSIBILITY
1.	Recent Trends in Instrumentation Application RETINA'09 - NEC	TNSCST CHENNAI	45	Co- coordinator
2.	Research Issues on Non-Destructive Evaluation RNDE'13 - NEC	BRNS, Mumbai	40	Co- coordinator
3.	Recent Trends in Instrumentation Application RETINA'15 - NEC	National Engg. College	48	Co- coordinator
4.	Industrial Automation using	Self- Support	52	Coordinator &

	programmable logic controller (PLC)-02nd April 2016 - NEC			Technical content delivery
5.	Industrial Automation 16th September 2017 - NEC	ISTE	55	Coordinator & Technical content delivery
6.	Introduction Programmable Logic Controller (PLC)-09th September 2017	ISOI	60	Coordinator & Technical content delivery
7.	Industrial Automation using programmable logic controller (PLC)-22nd & 23rd February 2018 - NEC	Self- Support	40	Coordinator & Technical content delivery
8.	Capacity Building for Industrial Needs – 21 st to 26 th March 2022	TNSCST, CHENNAI	300	Convener & Technical content delivery
9.	Internal Smart India Hackathon 2023 –College SPOC	National Engg. College	60 team	Coordinator
10	Internal Smart India Hackathon 2025 –College SPOC	National Engg. College	115 team	Coordinator

Outreach / Expert

S.NO.	NAME OF THE PROGRAMME & VENUE	INSTITUTION	NO. OF PARTICIPANTS	RESPONSIBILITY
1.	Industrial Automation 14th feb.2019 - VOC college of Engineering	Anna University	42	Expert Person
2.	Hands on Training Program on PLC and SCADA 16th March 2019 - VOC college of Engineering	Anna University	45	Expert Person
3.	National Innovation and Start-up policy on 20.01.2020 - VOC college	VOC College	50	Expert Person
4.	Internal Institute Hackathon-2022" on 15.03.2022	PSR Engg. College	65 team	Expert Person
5.	Student Induction Programme on 02 nd August 2022	St. Mary's College	93	Expert Person
6.	Young scientist competition on 15/10/2022 @ Holy Cross Anglo Indian Higher Secondary School, Tuticorin	Holy Cross	48	Expert Person
7.	Special Lecture on Career Orientation on 03.04.2023 - VOC college	VOC College	93	Expert Person
8.	Act as Judge for state level competition on 14 and 15 July 2023 @ Holy Cross Anglo Indian Higher Secondary School, Tuticorin	Holy Cross	75	Expert Person
9.	Student Induction Program on 26.06.2023	St. Mary's College	102	Expert Person
10.	Motivational talk on Career Settlement on 24 th January 2024 @ Kamaraj College	Kamaraj College	120	Expert Person
11.	DC Member for Dr.M.Carmel Sobia, scholar	PSR Engg.		DC Member

	from 01.02.2025 onwards	College		
12.	State level Young Scientist Competition organized by the Holy Cross Anglo Indian Higher Secondary School, Tuticorin on 26th July 2025.	Holy Cross	75	Expert Person

JOURNALREVIEWER	
1.	De Gruyters published Measurement Science Review Journal
2.	Elsevier published Measurement
3.	IEEE Published Magnetics

INDUSTRYTRAININGPROGRAMMESATTENDED			
S.NO.	NAME OF THE PROGRAMME	NAME OF THE INDUSTRY	DURATION
1	Industrial Training Programme	Seshasayee paper and boards limited (spb)), Tirunelveli-627601, Tamilnadu.	21.04.2018 to 25.04.2018
2	Industrial Training Programme	Southern Petrochemical Industries Corporation (SPIC) Limited, Tuticorin-628005, Tamilnadu.	31.10.2016 to 11.11.2016

CONSULTANCY DETAILS	
1.	Validate the Instruments functionality and calibration - Sherwin Industries April 2022 - Completed - Rs. 55,600/-
2.	Fundamental Programming for - Industry 4.0-VOC College Sep. 2022 Completed - Rs. 56,000/-
3.	Fundamental Programming for - Industry 4.0- VOC College August 2022 Completed - Rs. 48,000/-

MEMBERSHIP DETAILS	
1.	ISTE-Life member Membership Number: LM41828
2.	IEEE-Member-94733535
3.	IE (I) Fellow - F-1291625
4.	http://orcid.org/0000-0002-4795-2776
5.	https://scholar.google.co.in/citations?user=z9l8K1QAAAAJ&hl=en
6.	https://www.researchgate.net/profile/Suresh_v