


Name	V.D.NANDHINI			
Designation & Department	ASSISTANT PROFESSOR & BME			
Qualification	M.E.,(Ph.D)			
Area of Specialization	APPLIED ELECTRONICS			
Date of Joining (KSRIET)	15.12.2021			
Experience (as on 30.01.2024)	Teaching: 02	Industry: Nil	Others: Nil	
Number of Papers Published	National Journals :Nil	International Journals :06		
Number of Papers Presented	National Conferences:04		International Conferences: 06	
Books Published	National Publisher :Nil	International Publisher :01		
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Publications (International Journals)

- L Pavithra, M Abdullah, S P Prakash, S Karthick, B Ragavi and V D Nandhini, “Wireless Sensor Network: A Review on Sensor Deployment and Routing Protocols for Different Application Areas”, IOP Conference Series: Materials Science and Engineering, 2021.
- Sandhiyadevi P, Mohanapriya G. K, Ragavi B, Pavithra L, Nandhini V. D and Dhaarani S, “Improved Hierarchical Clustering Method Based On Particle Swarm Intelligence for Improving the Network Lifetime In Underwater Communication Network” IEEE 2021.
- B Ragavi, S Saranya, L Pavithra, G K Mohanapriya, V D Nandhini and S Dhaarani, “Efficient Greedy Transmission of Data Packet by using Trophy(TAD-hoc) Protocol along with Greedy algorithm in VANET” IEEE 2021.
- P. J. Ragu, T. Yamunarani, V. D. Nandhini and B B Sangameswaran, “Self-Operational Adaptive Neural Networks in ECG Classification”, Journal of Emerging Technologies and Innovative Research, 2023, Vol. 10, Issue. 03, pp. 823-827.
- Pavithra L, Ragavi B, Nandhini V D, Saranya N and Sri Abirami S R, “Energy Efficient Dynamic Routing Protocol for wireless sensor network” IEEE 2023.
- Kavin Kumar K, Nandhini V D, Kowsalya M, Ragu P J, Raghapriya N R and Maheswaran S, Designing and validating an MD5 Hash Algorithm using the UVM Verification

Framework and Checkers”, IEEE, 2023.

Publications (National Journals)

Nil

Publications (International Conferences)

- L Pavithra, M Abdullah, S P Prakash, S Karthick, B Ragavi and V D Nandhini, “Wireless Sensor Network: A Review on Sensor Deployment and Routing Protocols for Different Application Areas”, International Conference on Circuits, Signals, Systems and Securities (ICSSSS 2020), 11th & 12th December 2020.
- Sandhiyadevi P, Mohanapriya G. K, Ragavi B, Pavithra L, Nandhini V. D and Dhaarani S, “Improved Hierarchical Clustering Method Based On Particle Swarm Intelligence For Improving the Network Lifetime In Underwater Communication Network”, International Conference on Inventive Computation Technologies (ICICT 2021), 20th to 22nd January 2021 .
- B Ragavi, S Saranya, L Pavithra, G K Mohanapriya, V D Nandhini and S Dhaarani, “Efficient Greedy Transmission of Data Packet by using Trophy(TAD-hoc) Protocol along with Greedy algorithm in VANET”, International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021), 04th to 06th February 2021.
- V. D. Nandhini “Resource Allocation Scheme Based On NOMA in OFDM”, International Conference on Research and Development in Science, Engineering and Technology (ICRDSET 2021), 5th March 2021.
- Pavithra L, Ragavi B, Nandhini V D, Saranya N and Sri AbiramiS R, “Energy Efficient Dynamic Routing Protocol for wireless sensor network”, International Conference on Augmented Intelligence and Sustainable Systems (ICAISS 2023), 23rd to 25th August 2023.
- Kavin Kumar K, Nandhini V D, Kowsalya M, Ragu P J, Raghapriya N R and Maheswaran S, Designing and validating an MD5 Hash Algorithm using the UVM Verification Framework and Checkers”, 14th International Conference on Computing Communication and Networking Technologies (ICCCNT 2023), 6th to 8th July 2023.

Publications (National Conferences)

- V. D. Nandhini, “Arduino Based Vehicle Mounted Overloading Control System For Transportation” National Conference on Innovations in Electrical Power and Energy Systems, 08th March 2019.
- V. D. Nandhini, “Efficient Mobility And Qos Routing Protocols Schemes And Challenges in Wireless Sensor Networks – A Review” Organised by Arya College of Engineering & I.T., Kukas, Jaipur, India.
- V. D. Nandhini, “Providing More Efficiency in Solar Panel Without Any Interruption” Organised by CSI College of Engineering, ketti, India, September 2021.

- V. D. Nandhini, “Speech Emotion Recognition using Deep Learning”, National Conference on Data Engineering and Communication Technology (NCDECT 2023), 24th & 25th February 2023.

Patents published

S.No	Patent ID	Title of the Patent	Patent Level / National	Publication Date
1.	202321019566 A	Understanding the Effect of Singing Bowl Meditation on Cardiovascular Activity: A Heart Rate Variability (HRV) Approach	National	07 th April 2023
2.	202341059400 A	Artificial Intelligence and machine learning based brain controlled car for disabled person and old age person	National	06 th October 2023

Books / Instruction materials / monograms published

S.No	Title of the Book	Author(s)	Name & Address of the Publisher	Year of Publishing
1.	Implementing AI Solution in Hospital and Healthcare Institutions	Mr.S.Parameswaran, Mrs.P.Arulmozhi, Mr.P.J.Ragu, Ms.V.D.Nandhini	Cosmas Scientific Publications	2023

Awards Won

S.No	Name of the Award	Academic Year
	Nil	

Funded Research Projects

S.No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role
	Nil			

Funded Programmers Organized (Seminar/Conference/Workshop/FDP/STTP/Other)

S.No.	Sponsored by	Name of the Event	Topic / Title	Date of the Event
1.	-	Value Added Course	Utilization of Measuring Instruments	10.08.2022 to 14.08.2022
2.	-	Value Added Course	Critical Care Equipments	07.08.2023 to 12.08.2023
3.	-	Value Added Course	Operational Theatre Equipments	14.08.2023 to 19.08.2023
4.	-	Seminar	Medical Image Processing	23.09.2023

List of Programmers Attended (Seminar/Conference/Workshop/FDP/STTP/Other)

S.No.	Sponsored by	Name of the Organizer	Topic / Title	Date of the Event
1.	-	Thiagarajar College of Engineering	Workshop on Medical Signal Processing with Artificial Intelligence	17.12.22 to 18.12.22
2.	-	Universiti Tun Hussein, Malaysia	Seminar on Insight into Research Publications	18.04.2023
3.	-	Hindusthan College of Engineering and Technology	FDP on Radiological Equipments	08.05.2023 to 12.05.2023
4.	IETE	Amrita Vishwa Vidyapeetham, Coimbatore	Workshop on Artificial Intelligence for Biomedical Signal and Image Processing	10.07.2023 to 12.07.2023
5.	-	Sree Sakthi Engineering College	FDP on Current trends in Engineering, Science and Technology	03.07.2023 to 08.07.2023
6.	-	SRM Institute of Science and Technology	Workshop on Advanced Research Methodology	03.07.2023 to 18.07.2023
7.	-	Sarala Birla University, Ranchi	STTP on Scientific Writing and Research	31.07.2023 to 04.08.2023
8.	-	Alpha College of Engineering	FDP on BM3301- Sensors and Measurements	03.08.2023 to 05.08.2023
9.	-	SRM Institute of Science and Technology	FDP on Future Direction in Image Processing	30.10.2023 to 04.11.2023

10.	-	SRM Institute of Science and Technology	FDP on Modern Medical Instrumentation	04.12.2023 to 08.12.2023
11.	-	SRM Madurai College for Engineering and Technology	FDP on Quality Concepts and Research Issues in Engineering Applications	11.12.2023 to 16.12.2023
12.	-	Sri Krishna College of Engineering and Technology	FDP on Modern Research Convergence in Next Generation Computing	18.12.2023 to 22.12.2023
13.	-	Sathyabama Institute of Science and Technology	FDP on Emerging Paradigms in Biomedical Healthcare Applications	18.12.2023 to 22.12.2023
14.	NEURA AI Solutions Private Limited	K S R Institute for Engineering and Technology	Artificial Intelligence and Machine Learning	08.01.2024 to 12.01.2024
15.	--	Rajalakshmi Engineering College	Exploring the nexus of industry 4.0 and healthcare- context, applications, advantages and challenges	18.01.2024 to 24.01.2024

Online Certification

S.No	Course	Conducted by	Date	Grade
1.	Accreditation and Outcome Based Learning	NPTEL & SWAYAM	August - October 2022	Successfully Completed

Consultancy Activities (Industry)

S.No	Title of the Project	Name of the Company
1.	Nil	

Training Offered

- Industrial Training on Full Stack Web Development.

Membership in Professional Bodies

- International Association of Engineers - (Member No: 358982)
- The Institute of Green Engineers (IGEN) – (Member ID : 10769)