


PERSONAL DETAILS AND AFFILIATION

Name of the Faculty Member	Dr.S.Subaselvi	
Designation	Assistant Professor	
Department	Electronics and Communication Engineering	
Date of joining the institution	18-06-2024	
Date of Birth	22-04-1994	
Address for Communication	Department of Electronics and Communication Engineering, National Engineering College, K.R. Nagar, Kovilpatti, Thoothukudi - 628503	
Email ID	subaselviece@nec.edu.in	

EDUCATIONAL QUALIFICATION

S.NO.	QUALIFICATION	INSTITUTION STUDIED	UNIVERSITY / BOARD	YEAR OF PASSING
1	Ph.D.	CEG, Anna University, Chennai	Anna University	2022
2	M.E.	Coimbatore Institute of Technology, Coimbatore	Anna University	2017
3	B.E.	Kumaraguru College of Technology, Coimbatore	Anna University	2015
4	XII	Ponnu Matriculation Higher Secondary School, Dharapuram	State board	2011
5	X	Ponnu Matriculation Higher Secondary School, Dharapuram	Matriculation	2009

EXPERIENCE

S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
					Y	M
1	M.Kumarasamy College of Engineering, Karur	Assistant Professor	11-07-2022	31-05-2024	1	10

2	National Engineering College, Kovilpatti	Assistant Professor	18-06-2024	Till date	1	1
TOTAL EXPERIENCE					2	11

LIST OF INTERNATIONAL JOURNAL PUBLICATIONS

1	IS Akila, Subaselvi S, “Energy Efficient Recursive Clustering Approach for Wireless Sensor Networks”, International Journal of Electronics, Electrical and Computational System , vol. 6, No. 5, pp. 121-130, 2017.
2	Subaselvi S, Manimekalai T, Gunaseelan K, “Energy Efficient Recursive Clustering and Gathering for Big Data in wireless Sensor Networks”, Sensor Letters , vol. 17, No. 9, pp. 680-687, 2019.
3	Subaselvi S, Gunaseelan K, “Energy Efficient Mobile Harvesting Scheme for Clustered SDWSN with Beamforming Technique”, Intelligent Automation and Soft Computing , vol. 34, No. 2, pp. 1197-1213, 2022, IF : 1.647.
4	Subaselvi S, Gunaseelan K, “A novel Energy Efficient Harvesting technique for SDWSN using RF transmitters with MISO Beamforming”, International Arab Journal of Information Technology , vol. 20, No. 1, pp. 125-133, 2023, IF : 1.2.
5	Subaselvi S, Gunaseelan K, “Energy Efficient UAV Enabled Harvesting with Beamforming for Clustered SDWSN”, Computing, Springer , vol. 104, No. 9, pp. 2077 - 2100, 2022, IF : 3.7.
6	Subaselvi S, “Monitoring of Environmental Parameters using Various Sensors in Agriculture”, Grenze International Journal of Engineering and Technology , vol. 9, No. 2, pp. 17 - 22, 2023.
7	Subaselvi S, R. Vijaya Kumar Reddy, B. Mahesh Babu, Gururaj Harinahalli Lokesh, Francesco Flammini, Rajesh Natarajan, “Route planning for an autonomous Robotic Vehicle employing a weight controlled particle swarm optimized Dijistra’s Algorithm”, IEEE ACCESS , vol. 11, pp. 92433-92442, 2023, IF:3.9
8	R.Rajesh Kanna, N.Lenin, L.Guru Prasad, N.Sudha, S.Subaselvi, S.Vimalnath, “Cu-Mn-Gdnano ferrites-graphene oxide nanocomposite meta absorbers for broadband frequency regime: Structural, Optical, Magnetodielectric, and Reflection Loss Evaluations”, Ceramics International, Springer , pp. 1-13, 2025, IF : 5.6.

LIST OF INTERNATIONAL CONFERENCE PUBLICATIONS

1	Presented a paper titled “ Event Driven Recursive Clustering Algorithm for wireless Sensor Networks ”in IEEE sponsored 4 th International Conference on Innovations in Information, Embedded and Communication Systems, Karpagam College of Engineering,Coimbatore on 18 th March, 2017.
2	Presented a paper titled “ Energy Efficient Recursive Clustering Approach for Wireless Sensor Network ” in “5 th International Conference on Engineering Technology, Science and Management Innovation, Institution of Electronics and Telecommunication Engineers (IETE), Delhi on 30 th April, 2017.

3	Presented a Paper titled ' A Novel harvesting and Data Collection Using UAV with Beamforming for Heterogenous Clustered Wireless Sensor Networks ' in International Conference in Robotics, Control, Automation and Artificial Intelligence (RCAAI), Karnataka on 24-26 November, 2022.
4	Presented a Paper titled ' VLSI Implementation of Triple DES Block Cipher ' in 7th International Conference on Computing Methodologies and Communication (ICCMC 2023), Erode on 23-25 February, 2023.
5	Presented a Paper titled ' RFID based Automatic Car Parking System using IoT ' in 9 th International Conference on Electrical Energy Systems, Chennai on 23-25 March, 2023.
6	Presented a Paper titled ' Monitoring of Environmental Parameters Using Various Sensors in Agriculture ', in Twelfth International Conference on Advances in Electrical Measurements and Instrumentation Engineering, EMIE 2023 organized by ACEECom, Kochi on 28-29 April, 2023.
7	Presented a Paper titled ' Forecasting Solar Power Generation for Energy Management using Machine Learning Technique ', International Conference on Sustainable Materials and Technologies in VLSI and Information Processing organized by Kalasalingam Academy of Research and Education on 13-14 December, 2024.
8	Presented a Paper titled ' Automatic Door Access System using Face Recognition by Machine Learning Technique ', International Conference on Computational Intelligence by K.Ramakrishna College of Engineering and Vel Technologies on 21 -22 March, 2025.
9	Presented a Paper titled ' Swarm Robotics to Agricultural Drones: A transformative Approach to Smart Farming ', Third International Conference on Agriculture Centric Computation organized by IIT Guwahati and IIT Ropar, 13-16 May 2025.

LIST OF NATIONAL CONFERENCE PUBLICATIONS

1	Presented a paper titled " Renewable Energy " in National Conference on Developing Scenario in Applied Sciences and Communication English, Kumaraguru College of Technology, Coimbatore on 3 rd March, 2012.
2	Presented a paper titled " Agriculture Automation Robot " in National Level Technical Symposium, Kumaraguru College of Technology, Coimbatore on 8 th February, 2013.
3	Presented a paper titled " Clustering Algorithm for Wireless Sensor Network using Event Driven Iterative Clustering Approach " in National Conference on Innovations and Emerging Technologies for Future Smart Cities, Coimbatore Institute of Technology, Coimbatore on 7 th April, 2017.

LIST OF PATENT GRANTED

1	Ms.S.Subaselvi , Dr.R.S.Sabeenian, Dr.R.Saravanakumar, Dr.M.Sundar Prakash Balaji, " Apple Picking Robot " patent granted on 20.01.2023. Design No. 374449-001
2	Bharath Kumar Reddy Poreddy, Dr.S.Subaselvi , Dr.Lakhvinder Kaur, Mr.Talasila Venkatesh, G.D.Vignesh, Dr.N.Nagabhooshanam, " AI based Plant Extract Analysing device to Identify disease " patent granted on 23.11.2023. Design No. 396514-001

LIST OF BOOK CHAPTER PUBLICATIONS

1	Published a book chapter titled “A Novel harvesting and Data Collection Using UAV with Beamforming in Heterogenous Clustered Wireless Sensor Networks” Lect. Notes Electrical Eng., Vol. 1066, Sanjay Sharma et al. (Eds): Intelligent Control, Robotics, and Industrial Automation , Chapter 61, Springer , 2023, DOI: 10.1007/978-981-99-4634-1_61.
2	Published a book chapter titled “Data Aggregation Algorithm for IoT-Enabled Advanced Metering Infrastructure Network in Smart Grid”, 5G and Fiber Optic Security Technologies for Smart Grid Cyber Defense , Chapter 12, IGI Global , 2024, DOI: 10.4018/979-8-3693-2786-9.ch012
3	Published a book chapter titled “Forecasting Solar Power Generation for Energy Management using Machine Learning Technique”, Sustainable Materials and Technologies in VLSI and Information Processing , Chapter 16, Taylor & Francis Group, CRC Press , 2025, DOI: 10.1201/9781003641551.

INDUSTRY TRAINING PROGRAMME ATTENDED

S.NO.	NAME OF THE PROGRAMME	NAME OF THE INDUSTRY	FROM
1	Fostering the professional growth and enhancement of the teaching methodologies and research capabilities	STELLANTIS, Chennai	23.09.2024 to 27.09.2024

LIST OF FDP PROGRAM ATTENDED

S.NO.	NAME OF THE PROGRAMME & VENUE	DATES WITH DURATION
1	‘Mini Project Contest’ , Kumaraguru College of Technology, Coimbatore	2-3 March, 2012
2	‘Digital System Design’ organized by Centre for Continuing Education of Indian Institute of Technology, Madras	January to April, 2013
3	‘Women in Electro Magnetics, Antenna Design, Wave Propagation and Application’ , Kumaraguru College of Technology in association with IEEE Antenna Propagation Society	1-2 March, 2013
4	‘ROBOTICS-TECHNOPETZ’ , Kumaraguru College of Technology, Coimbatore	10-11 October, 2013
5	‘Basic Graph Algorithm and design of Algorithms’ , through the QEEE program	2016
6	‘Embedded System Design for Internet Of Things Applications’ using CC3200 ARM cortex M4 organized by Coimbatore Institute of Technology, Coimbatore in collaboration with STEPS knowledge services	21 st April 2016
7	‘Implementation of 2x2 MIMO Systems’ jointly with National Instruments, Coimbatore Institute of Technology, Coimbatore	19 -21 september, 2016

8	‘Linear algebra and its applications in signal processing’ , Coimbatore Institute of Technology, Coimbatore	12-16 October 2016
9	‘Communication System Design using LabVIEW and NI-USRP’ conducted by AvGarde Systems Pvt. Ltd., College of Engineering, Guindy, Anna University, Chennai in association with NI systems (India), Bengaluru	14-15 February, 2019
10	‘Network and Hardware Security Challenges’ at College of Engineering, Guindy, Anna University, Chennai	11-12 March 2019
11	‘Antenna Trends’ organized by Electronics and ICT Academics under the scheme of financial for setting up of Electronics and ICT Academics of the MeitY, NIT, Patna	1-5 July, 2019
12	‘Internet of Things’ at College of Engineering, Guindy, Anna University, Chennai	29 Oct -2 Nov 2019
13	‘Research Challenges in 5G wireless Communications’ under the UGC XII plan, College of Engineering, Guindy, Anna University, Chennai	14-15 February 2020
14	‘Advances in Next Generation Wireless Communication & Networks’ organized by G Pulla Reddy Engineering College, Kurnool	27-31 July 2020
15	‘EC8701 Antennas and Microwave Engineering’ organized by RVS College of Engineering and Technology, Coimbatore	18-22 July, 2022
16	‘National Intellectual Property Awareness Mission’ organized by Intellectual Property Office, India	29 July, 2022
17	‘Applications of Machine Learning and Deep Learning using MATLAB’ organized by Vel Tech Multi Tech Dr. Rangarajan Dr.Sankunthala Engineering College, Avadi, Chennai	1-8 August, 2022
18	‘Next-generation Applications in Electrical and Electronics Engineering’ Organized by Electronics & ICT Academy by MeitY, NIT Patna	15-21 September, 2022
19	‘National Intellectual Property Awareness Mission’ by Intellectual Property Office, India	19 October, 2022
20	‘National Intellectual Property Awareness Mission’ by M.Kumarasamy Collge of Engineering	1-7 December, 2022
21	‘Recent advances in Data Science, Data Analytics and Cyber Security’ organized by Sri Vishnu Engineering College for Women	1-5 March, 2023
22	‘AI & Deep Learning Approach for Image Processing and its Applications’ organized by Paavai Engineering College in association with IETE	19 -24 June, 2023
23	‘Recent Trends and Advancements in ML & NLP’ organized by Narula Institute of Technology	12 -17 July, 2023
24	‘Continous Competency Enrichment Program’ organized by M.Kumarasamy College of Engineering	27-28 July, 2023
25	‘Cloud Infrastructure (AWS)’ organized by Sathyabama Institute of Science and Technology collaboration with AICTE and Brainovision Solutions India pvt Ltd	21 -25 August, 2023
26	‘NEC Idea Challenge’ event as part of NEC startup Entrepreneurship summit (NECSES 2.0) organized by National Engineering College, Kovilpatti.	22 – 24 August , 2024
27	‘Mentoring and Counselling Skills for Teachers’ organized by National Engineering College, Kovilpatti.	26 -30 August, 2024
28	‘Machine Learning’ organized by AICTE SkillDzire	September, 2024

29	‘Advances in Adaptive Antenna Design and Applications’ organized by AICTE ATAL at PES Modern College of Engineering, Pune	18 – 23 November, 2024
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