Name: V.A. Velvizhi		
Designation:	Associate Professor	
Qualification:	M.E.,	
Area of specialization:	Communication Systems	
Date of Joining	16. 06. 2008	
Experience : (As on Dec 2022)	**Industrial Experience**	**Teaching Experience**
	NIL	19 years 2 Months
Number of workshop / FDP attended:	**Number of Workshops**	**Number of FDPs**
	10	**16**

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	7	**6**	**NIL**	**9**

Patents:	**National**	**International**
	NIL	3

Professional Body Membership:	IETE, IAENG, ISTE, IEEE

Staff Achievements :	1. Secured 100 % result in handling subjects.
	2. **Co – coordinated** and participated 'Biomedical Electronics and Biomedical Informatics' (NCBEBI - 200), in **DRDO & IETE sponsored National Conference** conducted by the Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 44, 5th and 6th February 2009.
	3. 2. Acted as Coordinator, Anna university approved faculty development training programme on EC6702 – Optical Communication and Networking", Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 600 044, 31st May to 7th June, 2017.
	4. Delivered a lecture on "PRE-PROCESSING TECHNIQUES IN CONTEXT TO SIGNAL PROCESSING TECHNIQUES", at the short course on "Signal processing. Image processing and Deep learning techniques for the development of intelligent health care systems", at the International Conference on "International Conference on Communication, Computing and Internet of things - $IC^{3}IOT$ 2018, conducted by the department of ECE, Sri Sai Ram Engineering College, Chennai 600 044.
	5. Co - ordinated one day Hands - ON workshop on " Developing and Deploying machine learning and deep learning algorithms using MATLAB & Simulink" on Saturday, 3rd August 2019.
	6. Co-ordinated a three days Faculty Development Programme on "Get Ready for AI with MATLAB and SIMULINK" from 18.06.2020 - 20.06.2020.
	7. Co-ordinated the National level Tech fest, "Zenista TechFest 2020", during 8th October, 2020.
	8. Coordinated online Alumni Meet - 12th Jan 2022
	9. Acted as Session Chair in the ICPECTS 2022 conference.
	10.

Workshop Details:

1. Attended Workshop on 'Computer Networking', organized by Department of Electronics and Communication Engineering, College of Engineering, Guindy, Anna University, Chennai 25 on 14.10.2006

2. Attended 'National Workshop on MATLAB and its Applications', Department of Electronics and Communication Engineering, SSN College of Engineering, Chennai, 603 110, 7th to 11th MAY 2007.

3. Attended 'VLSI Design Methodologies and Tools', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, 7th and 8th October, 2010.

4. Attended National Workshop on 'Wireless Communication and Radiating Systems', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, 21st and 22nd March, 2011

5. Attended DRDO sponsored workshop on 'Recent Trends in Antennas for Multifield Applications', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, 27th and 28th December, 2012

6. Attended Workshop on 'Artificial Intelligence and Cognition', Department of Electronics and Communication Engineering, Panimalar Institute of Technology, Chennai 600 123, 4th & 5th November 2015

7. Attended 2nd Workshop on 'Emerging Trends and future perspective in image processing and computer vision', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 600 044, 4th to 6th January, 2017

8. Attended 3rd Workshop on 'Emerging Trends and future perspective in image processing and computer vision', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 600 044, 3rd to 5th January, 2018

9. Attended International Workshop on 'Applications of Data Science', The department of Electronics and Communication Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India, 29.6.2020 & 30.6.2020

10. Attended two days International workshop 'Deep learning Models and its Applications', The department of Electronics and Communication Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India, 8.12.2020 & 9.12.2020

FDP Details:

1. Attended 'Signals and Systems', Anna university approved course at SSN College of Engineering, Chennai, 603 110, 21st to 26th November 2005

2. Attended 'Instructional Design and Delivery', AICTE sponsored staff development programme on Department of Computer Science and Engineering, Sri Sai Ram Engineering College, 8th and 9th January 2009

3. Attended 'EC2302 - Digital Signal Processing', Anna university approved faculty development training programme at Department of Electronics and Communication Engineering, Jeppiaar Engineering College, Chennai, 9th to16th June 2010

4. Attended 'ISO 9001: 2008 Quality Management System and Audit Training, Creative Management Consultants', at Sri Sai Ram Engineering College, 11th and 12th October, 2011

5. Attended Internal Faculty training program on 'PYTHON PROGRAMMING', Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 600 044, 30th October to 6th November, 2017

6. Attended Faculty Development Training Program on 'Digital Communication', Department of Electronics and Communication Engineering, SSN college of Engineering, Chennai - 603 110, 11th to 17th June, 2018

7. Attended FDP Certification Course on 'Outcome Based Pedagogic Principles for Effective Teaching NPTEL Online Certification Course – June 2018 session', Four Week Course

8. Attended two weeks Faculty Development Programme on 'RESEARCH METHODOLOGY' from October 01- October 15, 2020 and obtained a grade A+, Teaching Learning Centre, Ramanujan College University of Delhi under the MINISTRY OF HUMAN RESOURCE DEVELOPMENT, PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING, October 01- October 15, 2020

9. AICTE Training and Learning (ATAL) Academy Online FDP on 'Artificial Intelligence', ALL INDIA COUNCIL FOR TECHNICAL EDUCATION Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070 - KIIT Deemed to be University, 2020-10-15 to 2020-10-19.

Conference Details:

1. Participated and presented a paper titled 'Integer wavelet transform based signal coding', in the IEEE All India students' congress, IEEE Student Branch (29861), at Mepco Schlenk Engineering College. Sivakasi, 6th February 2004

2. Participated and presented a paper titled 'Basic lifting scheme wavelets', in the National Conference on Wireless Communication conducted by St. Joseph's Engineering College, Chennai, 9th February 2004

3. Participated in a tutorial session on 'Wireless Sensor Networks', AICTE sponsored International Conference on Innovative Computing, Information and Communication Technology (ICICT '09) held at Sri Sai Ram Engineering College, Chennai – 44, 16th to 18th December, 2009

4. Participated and presented a paper titled 'Urban And Rural Drinking Water Sanitation Using Low Power Consuming Wireless Sensor Networks, in the National Conference on "Innovations in Intelligence and Computing Technologies (NCIICT 2013)" conducted by the Department of Computer Science and Engineering, Easwari Engineering College, Chennai – 89, 12th March 2013

5. Participated and presented a paper titled 'Urban and rural drinking water sanitation and distribution using low power consuming wireless sensor networks', in the International Conference on "Computation of Power, Energy, Information and Communication (ICCPEIC - 2013)" conducted by the Department of Electrical and Electronics Engineering, Adhiparasakthi Engineering College, Melmaruvathur, 603 319, 17th and 18th March 2013

6. Participated in the National Conference on 'Advanced Communication and Computing Techniques (NCACCT – 13)', conducted by the Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 44, 18th and 19th March 2013

7. Participated and presented a paper titled 'Optimal subsink selection for novel data collection using Wireless Sensor Networks', in the third International Conference on " Soft computing and advanced communication systems (SACS '14)", 21st March 2014

8. Participated   the National Conference "Advanced Communication and Computing Techniques (NCACCT – 14)", conducted by the Department of Electronics and Communication Engineering, Sri Sai Ram Engineering College, Chennai 44, 11th April 2014

Journal Details:

1. Published a paper titled 'Efficient data collection in WSN using optimal subsink selection', in International Journal of "Advanced and Innovative Research", ISSN: 2278 – 7844, published on IJAIR, Volume 3, Issue 1, January 2014

2. Published a paper titled 'Microwave 3D antennator brain tumor sensing analysis system', in "International Journal of emerging technology in computer science and electronics (IJETCSE)", ISSN : 0976 – 1353, Issue 06, Volume 24, April 2017

3. Published a paper titled 'Inclination Based Fall Detection System', in International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org, P- ISSN 2349-5138, 2019 IJRAR July 2019, Volume 6, Issue.

4. Published a paper titled 'Design and Implementation of Smart System for Interaction Between Blind, Deaf and Mute People', in International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-2S11, September 2019.

5. "Communication between Two Vehicles Using LoRa", Velvizhi, V.A., Senbagavalli, G., Anbarasan, M., ...Harini, I., Darsana Kumari, M., Proceedings of the 2021 4th International Conference on Computing and Communications Technologies, ICCCT 2021, 2021, pp. 453–457.

6. "A Preprocessing Techniques for Seismocardiogram Signals in Removing Artifacts", Velvizhi, V.A., Priya, E., Lecture Notes in Electrical Engineering, 2022, 792, pp. 845–853.

7. "Design of Microwave 3-D Antenna for Brain Tumour Sensing System", Gunaseelan, N.G., Anbarasan, M., Velvizhi, V.A., Jeyapiriya, K., Gayathri, S. 2022 International Conference on Communication, Computing and Internet of Things, IC3IoT 2022 - Proceedings, 2022.

8. EEG based epileptic seizure detection methods,C Bharathipriya, MD Manigandan, G Sudha, VA Velvizhi, J Prakash, …,AIP Conference Proceedings 2518 (1), 040001

9. IoT-Based ECG and PCG Monitoring Systems,VA Velvizhi, M Anbarasan, S Gayathri, K Jeyapiriya, S Rajesh,Emerging Technologies in Data Mining and Information Security, 243-251

Book Chapter:
1. "Emerging Technologies in Engineering Research", VA Velvizhi, K Jeyapiriya, S Gayathri, J Prakash, ISBN: 978-93-5419-211-1 (Online)

2. 6G With TeraHertz Communications, G Senbagavalli, T Kavitha, A

Patent Details:

1. ONE BIT COMPRESSION SENSING MECHANISM FOR LOW RATE WIRELESS SENSOR NETWORKS Inventor(s): Maheswari, B. Uma and Periyaazhagar, D. and Anand, J. V. and Saravanan, T. and Angappan, Kumaresan and Balasaraswathi, M. and Sudha, G. and Karunkuzhai, D. and Velvizhi, V. A. and Jeyapiriya, K., Assignee: AUSTRALIAN PATENT OFFICE Published: 2021-02-11

2. Electric vehicle charger Inventor(s): Sankari, K Subhashini, Velvizhi, Assignee: IPR Published: 2021-11-16

3. A NOVEL ASSEMBLY HAVING PHYSICAL UPLINK SHARED CHANNEL WITH SWITCHED ANTENNA FREQUENCY DOMAIN RESOURCE ALLOCATION DETERMINATION Inventor(s): Dr. S. Brindha, 2)V.A.Velvizhi 3)K.Jeyapiriya 4)S.Gayathri , Assignee: IPR Published: 0000-00-00

Additional Details: