<table>
<tr><td>Name:</td><td colspan="4">Dr. M. Kanthimathi
  </td></tr>
<tr><td>Designation:</td><td colspan="4">Professor and Head of CSE(IoT)</td></tr>
<tr><td>Qualification:</td><td colspan="4">Ph.D</td></tr>
<tr><td>Area of specialization:</td><td colspan="4">Wireless Communication, Wireless Sensor Networks and IoT</td></tr>
<tr><td rowspan="2">Experience : (As On December 2022)</td><td colspan="2">Industrial Experience</td><td colspan="2">Teaching Experience</td></tr>
<tr><td colspan="2">-</td><td colspan="2">22 Years and 1 month</td></tr>
<tr><td rowspan="2">Number of workshop / FDP attended:</td><td colspan="2">Number of Workshops</td><td colspan="2">Number of FDPs</td></tr>
<tr><td colspan="2">9</td><td colspan="2">15</td></tr>
<tr><td rowspan="3">Publications:</td><td colspan="2">Conference</td><td colspan="2">Journal</td></tr>
<tr><td>National</td><td>International</td><td>National</td><td>International</td></tr>
<tr><td>9</td><td>14</td><td>-</td><td>5</td></tr>
<tr><td rowspan="2">Patents:</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td colspan="2">1</td><td colspan="2"></td></tr>
<tr><td>Professional Body Membership:</td><td colspan="4">➢ Life member in THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) -M.No: LM 131452
➢ Life member in the THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS (IETE)
➢ IEEE Member: M.No: 98060059</td></tr>
</table>

Staff Achievements:

- **Anna University recognized supervisor- Supervisor Id: 3740005**
- **Guiding 6 Ph.D scholars under Anna University.**
- Won First prize in paper presentation in the IETE Zonal Seminar on Smart Engineering for Sustainable development on 20.9.2019
  ATAL Mentor
- Received an amount of **12,86,275/- from AICTE (MODROB SCHEME)** for the year 2109-2020. The title of the proposal is Upgradation of communication system lab to advanced communication system lab.

Guest Lectures and Seminar Presentations done in 2022:

- Delivered a guest lecture on " Energy Optimization in Wireless Sensor Network" for IV year ECE students, Paavai Engineering College on 3rd June 2022.

- Delivered a guest lecture on " analog Electronics and signal Processing for wireless communication" for faculty, SRM Valliammai Engineering college on 10th June 2022.

Workshop Details:

Sl. No.	Title	Venue	Month/Year
1.	Recent Trends in Wireless Information Networks and Systems	Sri Sairam Engineering College	February 2008
2.	Advancements in VLSI, DSP, and RF Communication	BSA Crescent Engineering college	April 2006
3.	Instructional Design and Delivery-II	TTTI Taramani	March 2003
4.	VLSI Design	Jerusalem college of Engineering	November, 2002.
5.	Wireless networks	SRM Institute of science and technology	December 2-3 2005.
6.	Product Engineering for Real-Life Problems	IIT Research Park	28.9.2022 to 30.9.2022

Sl. No.	Title	Venue	Month/Year

FDP Details:	1.	MIMO Communication and Networks	SRM University	February 2012
	2.	Recent development in computing	Sri Sai Ram Engineering college	April 2010
	3.	Digital Communication	SSN College of Engineering	11th June 2018 to 17th June 2018
	4.	**High Performance Intelligent Real Time Embedded System Design and Internet of Things to Accelerate Automation System into Autonomous System"**	R.M.K. Engineering College	01/09/2020 to 07/09/2020
	5.	Faculty Development Programme On Embedded Control System & Communication Networks	Valliammai Engineering college	MAY 11th to 15th 2020.
Conference Details:	**Sl. No.**	**Title**	**Venue**	**Month/Year**

	1.	Implementation of an Efficient Channel-Adaptive MIMO Detection Scheme	Sri Sai Ram Engineering college.	March 2012
	2.	Multiple Feedback Successive Interference Cancellation Detection for MU-MIMO Systems Scheme	Sri Sai Ram Engineering college.	March 2012
	3.	Efficient Channel – Adaptive MIMO Detection Scheme	RMK Engineering college	April 21, 2012.
	4.	Multiple feedback Successive Interference Cancellation using IDD Receiver	St. Xavier's Catholic College of Engineering	March 15th and 16th 2012.
	5.	Performance analysis of Adaptive switching between STBC and SFBC for MIMO-OFDM System	International conference on Intelligent Science and technology(SUN IIST-2011)	April 2011
	6.	Multiple feedback Successive Interference Cancellation with Multi-branch processing for MU-MIMO	Magna Engineering college	April 2012
	7.	Performance analysis of generalized differential modulation using DAPSK for bi-directional relay networks',	Computing and Communications Technologies (ICCCT), 2nd International Conference on, pp. 33-36.	Feb 2017

	8.	Reduced Complexity Maximum Likelihood Detection for DAPSK based Relay Communication Systems' in 2015.	IEEE International Conference on Computing and Communications Technologies, pp. 292-295.	2015
	9.	'Performance analysis of decode and forward Cooperative relaying Protocol in MIMO Wireless Communication System',	IEEE International Conference on Green Computing, Communication and conservation of Energy, pp. 164-168.	2013
	10	Low Profile Sierpinski Fractal Patch Antenna	International Conference on Communication, Computing and Internet of Things (IC3IoT)	2022
	11	Energy-Efficient spatial modulation in wireless sensor networks	International Conference on Communication, Computing and Internet of Things (IC3IoT)	2022

Journal	Sl. No.	Title	Journal Name	Volume/Date

Details:	1.	Adaptive MIMO-OFDM Scheme with reduced computational complexity and improved capacity.	International Journal of Computer science and information Security (IJCSIS)	Vol. 9, No.3. March2011
	2	Energy efficiency analysis of differential cooperative algorithm in wireless sensor network	Cluster Computing	2018. (Thomson Reuters & Scopus Indexed, Impact Factor-2.04) vol. 14, no. 9, pp. 4236-4240, 2017
	3	Energy Efficient Constellation Rotation for Multiple-Symbol Differentially Encoded Communications	Journal of Computational and Theoretical Nanoscience.	vol 7, no.1.1, pp.418-420, 2018. (Scopus Indexed).
	4	Modulation Diversity for Differential Amplitude and Phase Shift Keying technique.	International Journal of Engineering & Technology.	vol. 10, no.75, pp. 143-147.
	5	Performance analysis of DAPSK modulated OFDM signals in two-way Relay	International Journal of Applied Engineering Research.	Vol. 5, Issue 3, March 2017, pp 1-6

		Communication Systems.		
	6	A Dual Band Microstrip Patch Antenna with RF switch	International Journal of Innovative Research in Computer and Communication Engineering	e-ISSN No: 2319-4200, PP 24-28
	7	Energ Efficient Adaptive Routing Protocol for Wireless Body Area Networks (WBAN)	IOSR Journal of VLSI and signal Processing	vol. 103, no. 4, pp. 2715-2728, ISSN:1572-834X(Impact Factor: 1.20).
	8	Energy efficient differential cooperative MIMO algorithm for wireless sensor networks'	Wireless Personal Communications , Springer Publications	January - February 2020 ISSN: 0193 - 4120 Page No. 4634 – 4637. March 2020, vol 58, no 3, pp. 147-156
	9	**Advanced Driver Alert System for Ambulance Passby**	**Test Engineering and management journal**	
	10	**Energy efficienct decision fusion for Differential Space-Time Block Codes in Wireless Sensor Networks**	**Indian Journal of Pure & Applied Physics**	
	11.	**Performance analysis of multiuser MIMO OFDM systems**	Journal of Physics: Conference Series	First International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology (ICASSCT 2021), 19-20, March 2021, Goa, India

	12	**incorporating feedback delay and feedback error** Design and Comparison of 24-bit Three Operand Adders using Parallel Prefix method for Efficient Computations	European Alliance for Innovation (EAI)	Volume No.11, Issue No. 3 https://doi.org/10.4108/eetsis.5004

Patent Details	Design Patent filed on 20.10.2021 has been accepted for Grant Application number: 351533-001
Academic and Administrative Responsibilities Held:	➢ Department coordinator of SDG (Sustainable development goals) activities ➢ Head of Wireless Network group ➢ Department SIH Coordinator ➢ Department member in Admission core team ➢ NBA Head of Department
Research Visibility:	➢ Vidwan-ID : 182177 ➢ Google Scholar Id: http://scholar.google.co.in/citations?user=8IObpvsAAAAJ ➢ Scopus Link: http://www.scopus.com/authid/detail.url?authorId=55541183900 ➢ ORCID: http://www.orcid.org/0000-0001-9408-3414

	➢ WoS research ID: https://www.webofscience.com/wos/author/rid/AAZ-2465-2021