Name:	M.Shabana Parveen
Designation:	Assistant Professor
Qualification:	B.E., M.E.,(Ph.D)
Area of specialization:	Communication Systems

Experience : (As on December 2022)	Industrial Experience	Teaching Experience	
	--	19 Years	

Number of workshop / FDP organized:	Workshops	FDPs	Conferences
	-	-	-

Number of workshop / FDP attended:	04	2	4

Publications:	Conference		Journal	
	National	International	National	International
	1	12	1	5

Professional Body Membership:	ISTE, IEEE

Staff Achievements:	1.Contributed as Resource Person and delivered lecture on the topic of "Wireless sensor networking Tools" for the Seminar organized by the Department of ECE, Sri Sairam Engineering College on 7th May 2025. 2. Contributed as Reviewer for the Springer sponsored International Conference on computational Complexity and Intelligent Algorithms (IC3IA) held on March 8-9, 2025 at Shri Jain Girls PG College, Bikaner with the Collaboration of Hari Krishan Research and Development Nexus, Bikaner & Engineering College Bikaner and University of Raparin, Kurdistan, Iraq. 3. Delivered a lecture at SRM Valliammai Engineering College, Department of Electronics and Communication Engineering in the

	Faculty Development Programme on "Analog Electronics for Embedded Systems and Wireless Sensor Networks" 28.11.2022 Contributed as Reviewer in Computational Intelligence. Journal wiley in 2022 4. Participated as ATAL mentor for the ATL Tinkerpreneur event organized by Atal Innovation Mission in 2021. 5. Handled a session *"Routing protocol for IoT"* in AICTE sponsored Six Days Online Short Term Training Programme (STTP) on "**INTERNET OF THINGS AND ITS APPLICATIONS**" from 07.12.2020 to 12.12.2020 organized by Department of Information Technology, SRM Valliammai Engineering college Kattankulathur			

	Sl. No.	Name of the Program	Venue	Month/Year
WORKSHOP / FDP / CONFERENCE:	1.	Six-Day FEP on 4G/5G Communication Network	Department of centre for Internet of Things	23.07.2024-29.07.2024
	2	Two days workshop on Sensor Network and IOT Implementation using open source simulator	Kongu Engineering college,Perundurai	16/08/2019-17/08/2019
	3.	Three days workshop on RAPID PROTOTYPING IOT AND EMBEDDED SYSTEM DESIGN	Sri Sairam Engineering college	12.11.2018-14.11.2018
	4.	Two days workshop on IOT	Dept. of Instrumentation engineering, MIT Anna University.	21st and 22nd October 2016
	5.	workshop on "Embedded System Development using ARM controllers"	Anna University, organized by Indian Service Machine, Bangalore.	April 9, 2006
	6.	Research Oriented faculty development training programme (RO-FDTP) on "Research Challenges in	Dept. of Electronics engineering, MIT Anna University.	06/02/2020-07/02/2020

	7.	Attended Refresher Course in the subject" DSP, VLSI and Embedded System Design "	SRM Institute of science and Technology. Dept. of ECE	19.6.2006 to 9.7.2006
		VLSI and Communications"		

EXPERIENCE:ACADEMIC

S.No.	Name and Address of the Institution	Designation	Period of Experience
1	Vels Srinivasa College of Engg and Tech	Lecturer	1 year 4 months (07/02/2005 - 30/06/2006)
2	Anand Institute Of Higher Technology	Lecturer	2 years 2 months (03/07/2006- 31/08/2008)
		Asst. Prof	6 years 5 months 01/07/2010 30/11/2016
3	Sri Sai Ram engineering college, Sai Leo Nagar, West Tambaram, Chennai-600044.	Asst. Prof.	15.06.2017- Till date

**Publications
Details:**

- **Parveen, MS**&Bhuvaneswari, PTV 2025,'A neuro-fuzzy multi-topology adaptive routing framework for QoS-aware healthcare IoT communications', **ScientificReports**, https://doi.org/10.1038/s41598-025-33235-9, **Impact Factor : 4.3**.

- Parameswaran Ramesh, Vidhya N, Panjavarnam B, **Shabana Parveen M**, Deepak Athipan A M B and Bhuvaneswari P T V, "I-CVSSDM: IoT Enabled Computer Vision Safety System for Disaster Management" EAI Endorsed Transactions on Internet of Things, Vol.10, pp.no 1-9, Feb 2024

- **Parameswaran Ramesh**, Vidhya N, Bhuvaneswari P T V and **Shabana Parveen M**, "I-SOEWM: IoT Based Solar Energized Weather Monitoring System" Indian Journal of Science and Technology, Vol.16, Issue 20, pp.no 1505-1515, June 2023.

- **R.Parameswaran**, Bhuvaneswari P T V, Bino J, **Shabana Parveen M**, Vidhya N "An IoT Enabled Smart Building Monitoring and Control System" Gradiva Review Journal, Vol.9, Issue 2, 2023.

- Shabana Parveen, M., and P. T. V. Bhuvaneswari.: Investigation of RPL in 6LoWPAN based elderly care monitoring system." Journal of Intelligent & Fuzzy Systems 42.6 (2022): 5411-5426.

Conference Details

- Shakti A P, Sasmitha A, Sushmitha A, Parameswaran Ramesh**, Shabana Parveen M** and P.T.V. Bhuvaneswari, "MDR: Smart Medicine Dispensing Rover" presented in International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2024, pp. 1-5. doi: 10.1109/ICPECTS62210.2024.10780397

- **Shabana Parveen M**, P.T.V. Bhuvaneswari**,** Sridhivya Krishnan, Parameswaran Ramesh, Vidhya N and Bino J**,** "MMRPLT: Analysis of Mobility model in RPL for Different Topologies " presented in IEEE MYSORE SUBSECTION FLAGSHIP CONFERENCE (MYSURUCON), Mysuru, India, 2024, pp. 1-5.

- **M. Shabana Parveen**, R. G. Keerthana, S. Shanmathi and M. Shajitha, "Sign Language Detection Using Open Cv," 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), Chennai, India, 2024, pp. 1-5, doi: 10.1109/IC3IoT60841.2024.10550232.

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- Divya sree, Manoj G , Mansi A, Sindhukavi S, R Parameswaran**,** Bino J, **Shabana Parveen M**, and P. T. V. Bhuvaneswari**,** "Investigation on BPSK Modulated LoRaWAN for Data Rate Enhancement" presented in IEEE 3rd International Conference on Applied Electromagnetics, Signal Processing, & Communication (AESPC), KIIT University, Bhubaneswar, India, pp.1-5. doi: 10.1109/AESPC59761.2023.10390464

- K Gurubaran, Poornesh S, Shwetha L S, Deepak Athipan A M B, Vidhya N**, Shabana Parveen M**, R Parameswaran**,** and P. T. V. Bhuvaneswari**,,** "Machine Learning Approach for Soil Nutrient Prediction" presented in IEEE International Silchar Subsection Conference (SILCON), NIT Silchar, India, 2023, pp. 1-6. doi:10.1109/SILCON59133.2023.10405095

- S Sindhukavi, P. T. V. Bhuvaneswari, Vidhya N, R Parameswaran**,** Panjavarnam B and **Shabana Parveen M,** " Investigation on Conventional LoRaWAN Communication System" presented in 14th IEEE International Conference on Computing Communication and Networking Technologies (ICCCNT), Delhi, India, 2023, pp. 1-5, doi: 10.1109/ICCCNT56998.2023.10307917**.**

- **P. M. Shabana** and P. T. V. Bhuvaneswari, "Comparative analysis of RPL performance under different wireless network topologies," 2022 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS), Chennai, India, 2022, pp. 1-7, doi: 10.1109/ICPECTS56089.2022.10047013.

- **Parveen, M.S**., Bhuvaneswari, P.T.V. (2020). An Investigation on Performance of Mobile RPL in Linear Topology. In: Dash, S., Lakshmi, C., Das, S., Panigrahi, B. (eds) Artificial Intelligence and Evolutionary Computations in Engineering Systems. Advances in

PATENTS DETAILS:

S. No	Title	Application No.	Issue date
1.	A Power Generating Kite SystemProduction of Electricity From The Wind	202041004990	2020/2/14
2.	SMART BIODEGRADABLE PACKAGING WITH ENBEDDED SENSORS FOR REAL-TIME FOOD SAFETY MONITORING	202541009402	2025/2/14
3.	AI-POWERED PERSONALIZED HEALTH MONITORING SYSTEM WITH BLOCKCHAIN FOR DATA SECURITY	202541012139	2025/2/13