

Somaiya Vidyavihar University

Name: V.Venkataramanan		E-mail:venkataramanan@somaiya.edu	
Contact No: 9884482551			
Department/Section: Information Technology			
College: K J Somaiya College of Engineering			
DOJ Somaiya: 3.6.24	Career Experience:14 Yrs	Industry Experience: 0 Yrs	Teaching Experience: 14 Yrs
Present Academic Designation: Assistant Professor	Present Administrative Designation:		

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> 1. Wireless Networks 2. VLSI 3. Mobile communication 4. IoT <p>Courses Delivered</p> <ol style="list-style-type: none"> 1. Digital Principles and System Design 2. Analog and digital Communication 3. Microprocessor and microcontroller 4. Digital Signal Processing 5. High-Speed Networks 6. Mobile Communication Systems 7. Wireless Networks 8. Optical communication 9. Sensor Technology 10. Sensor and Actuator Technology for IoT 11. IoT System Design 12. Intelligent IoT Systems 13. Fifth Generation Technology 14. Modern Wireless Communication Tools and Techniques 15. Advanced Wireless Communication Networks

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
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Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	PhD	Sathyabama Institute of Science and Technology, Chennai	Sathyabama Institute of Science and Technology, Chennai	2021	Awarded
PG	M.Tech VLSI Design	SRM University, Chennai.	SRM University, Chennai.	2010	7.94
UG	ECE	Annamalai University, Chidambaram	Annamalai University, Chidambaram	2008	9.43

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	Dwarkadas J. Sanghvi college of Engineering	Assistant Professor	4.1.2016	1.6.2024	8 years 4 Months
2.	Arunai college of Engineering	Assistant Professor	Dec 2010	Oct 2015	4 Years 10 Months

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: Nil		No of students completed Ph.D as on date: Nil
No of students completed PG thesis / Project work as on date: 6		No of students / groups completed UG projects as on date:8
Publications Total: 56	Number of Peer review Journal papers:25	Number of Conference papers:31

Details of Publications:

International Journals : International Journals (SCI) – (04)

1. Harish Kumar Shakya, V Venkataramanan, et al., "Internet of Things-Based Intelligent Ontology Model for Safety Purpose Using Wireless Networks," Wireless Communications and Mobile Computing, vol. 2022, Article ID 1342966, 8 pages, 2022. (Impact Score: 2.47)
2. S. Lakshmi, V. A. Kanetkar, and V. Venkataramanan, "Design and implementation of LTE physical layer on FPGA," International Journal of Computer Applications in Technology, vol. 61, no. 1/2, p. 127, 2019. (Impact Score:1.14) (Free Journal)

3. V. Venkataramanan and S. Lakshmi, "Hardware co-simulation of the LTE physical layer for mobile network applications," *Future Generation Computer Systems*, vol. 99, pp. 124–133, Oct. 2019. (Impact Factor: 7.307) (Free Journal)
4. V. Venkataramanan and S. Lakshmi, "Performance analysis of the LTE physical layer using hardware co-simulation techniques and implementation on an FPGA for communication systems," *International Journal of Communication Systems*, p. e4125, Aug. 2019. (Impact Factor: 1.882) (Free Journal)

International Journals (Scopus) – (09)

1. Venkataramanan, V., Modi, A. & Mistry, K. AI and Robots Impact on Space Exploration. *Adv. Astronaut. Sci. Technol.* (2024). <https://doi.org/10.1007/s42423-023-00147-7> (Free Journal)
2. V. Venkataramanan, S. Verma, A. Samant, and N. Mehta, "Automatic batch weighing and discharge system using NI LabVIEW and auger mechanism," *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, vol. 6, p. 100322, Dec. 2023, doi: 10.1016/j.prime.2023.100322. (Free Journal)
3. V. Venkataramanan et al., "Smart automatic COVID door opening system with contactless temperature sensing," *e-Prime - Advances in Electrical Engineering, Electronics and Energy*, vol. 6, p. 100284, Dec. 2023, doi: 10.1016/j.prime.2023.100284. (Free Journal)
4. V. Venkataramanan, Ravleen Kaur Dehiya, Anshul Vora, Aman Shah, Aishwarya Nafre, and Prachi Gandhi, "LTE modulation and coding schemes for 6G networks," *International Journal of Sensors, Wireless Communications, and Control*, Vol. 12, Issue 4, pp. 326–332, May 2022. ISSN: 2210-3287. (Impact Score: 0.92) (Free Journal)
5. V. Radhamani, V. Venkataramanan, S. Diwakaran, Muthukumar Subramanian, and Arun Sekar Rajasekaran, "Wavelet thresholding techniques implementation in retinal images for suppressing noises," *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2021.12.059>. 2021. (Impact Score: 1.46) (Free Journal)
6. V. Venkataramanan and S. Lakshmi, "A Case Study of Various Wireless Network Simulation Tools", *International Journal of Communication Networks and Information Security (IJCNIS)*, pp. 389–396, Vol. 10, No. 2, August 2018. (Impact Score: 1.51)
7. V. Venkataramanan and V. Kannan, "Bit Error Rate Analysis of LTE Physical Layer with Different Channel Models," *International Journal on Communications Antenna and Propagation (IRECAP)*, vol. 7, no. 7, p. 641, Dec. 2017 (Impact Score: 1.49)
8. C. Sasikiran, V. Venkataramanan, "Model-Based Design of LTE Base Band Processor Using Xilinx System Generator in FPGA", *ARNP Journal of Engineering and Applied Sciences*, pp. 5941–5946, Vol. 10, No. 14, Aug. 15. (Impact Score: 0.38) (Free Journal)

9. R. Janani, A. Manikandan, V. Venkataramanan, "Software Defined Radio Implementation in 3GPP Systems," ARPN Journal of Engineering and Applied Sciences, pp. 5537–5541, Vol. 10, No. 13, July 15. (Impact Score: 0.38) (Free Journal)

International Journal – (07)

1. Harshit Jain, Sunil H. Karamchandani, Venkataramanan V., "Integrated Predictive Algorithms for Diabetes Diagnosis and Management", International Journal of Research in Engineering and Applied Sciences(IJREAS), Vol. 13 Issue 8, August -2023, Available online at <http://euroasiapub.org/journals.php>
2. Abirami, A. Manikandan, and **V. Venkataramanan** "Interference Cancellation in Multiple Input Multiple Output Cognitive Radio Networks", International Journal of Advanced Technology and Engineering Research (IJATER), pp. 28–31, Vol. 5, No. 6, Nov 15.
3. Sasikiran, **V. Venkataramanan**, "FPGA Design and Implementation of Different Modulation Schemes Using Xilinx System Generator," International Journal of Applied Engineering Research, pp. 54–59, Vol. 10, No. 58, 2015. (Impact Score: 1.30)
4. **Venkataramanan, V.**, Shankar, K., Vinoth, D., and Archana, S., "Analysis of Cluster-Based Zone Routing Protocol in MANET through Network Simulator," International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249-8958, Volume-2, Issue-3, February 2013.
5. **V.Venkataramanan**, M. Kavitha "Performance Analysis of LTE Physical Layer Based on Release 10," CiiT International Journal of Wireless Communication, Vol. 5, No. 5, pp. 197–201, 2013.
6. A. Manikandan, **V. Venkataramanan**, M. Kavitha, and S. Parvathi, "Performance Analysis of LTE Physical Layer Based on Release 8 and 9 through Simulink Environment, "International Journal of Advanced Technology & Engineering Research (IJATER), Vol. 2, Issue 6, pp. 92–97, 2012.
7. Ramesh K. S., **Venkataramanan V.**, Switching Activity Reduction Using Scan Shift Operation, Journal of Computer Applications, vol. 5, Issue EICA2012-4, Feb. 2012, 409–419.

National Journals

1. Aditi Patel, Mital Pattani, Abhishek Satpute, **Venkataramanan. V** "Automated AC Dimmer", Technofocus, pp. 27–30, Vol. 2, Issue 7, Mar 2017. ISSN 2321-0532
2. Rachita Shah, Udit Shah, Rishit Turakhia, **Venkataramanan. V**, "Electronic Voting Machine", Technofocus, pp. 8–11, Vol. 2, Issue 7, Mar 2017. ISSN 2321-0532.
3. Bhaskar Kulkarni, Parth Joshi, Yash Agrawal, and **V Venkataramanan**, "Security Enabled

Wireless LED Display for Notice Board, Technofocus, pp. 1-4, Vol. 1, Issue 7, Mar 2016.
ISSN 2321-0532, Oct 2016.

4. Megh Shukla, and **V. Venkataramanan** "Road Safety Model", Technofocus, pp. 43–45, Vol. 2, Issue 6, March 2016. ISSN 2321-0532
5. Shashank Rane, Ravi Maurya, Vaibhav Zaveri, Deepak Rayani and **V. Venkataramanan** "Vehicle Movement Detection Using Street Lights", Technofocus, 26–28, Vol. 2, Issue 6, Mar 2016.

Conferences

International Conference (SCI)- Publons record (02)

1. J. D. Sanghavi, A. M. Shah, S.S. Rane, and **V. Venkataramanan**, "Smart Traffic Density Management System Using Image Processing," Proceedings of the International Conference on Wireless Communication, pp. 301–312, 2018.
2. Aditi Patel, Abhishek Satpute, Mital Pattani, and **V Venkataramanan** "Virtual Piano," Proceedings of the International Conference on Wireless Communication, pp. 265-272, Springer, Singapore, 2018.

International Conference (Scopus) - (09)

1. B. Gopi, R. V. Patil, **V. Venkataramanan**, and M. Manikandan, "User Flexible Approach for Autonomous Restaurant Menu Ordering System," 2023 8th International Conference on Communication and Electronics Systems (ICCES), Jun. 2023, doi: 10.1109/icces57224.2023.10192864.
2. A. V. Kalpana, **V. Venkataramanan**, G. Charulatha, and G. Geetha, "An Intelligent Voice-Recognition Wheelchair System for Disabled Persons," 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS), Jun. 2023, doi: 10.1109/icscss57650.2023.10169364.
3. Ritvik Khandelwal, Prasham Marfatia, and **V. Venkataramanan** "Implementing various Deep Learning Models to Predict Stock Price Movement", 2023, 4th International Conference for Emerging Technology (INCET), Belgaum, India. May 26–28, 2023.
4. **Venkataramanan**, V. Kavitha, G., Joel, M.R., and Lenin, J. "Forest Fire Detection and Temperature Monitoring Alert using IoT and Machine Learning Algorithms", Proceedings of the 5th International Conference on Smart Systems and Inventive Technology, ICSSIT 2023, 2023, pp. 1150–1156.
5. A. Pradeep, T. Prabhakaran, C. B. Prasad, G. Subramaniam, A. Suresh, and **V. Venkataramanan**, "Optimized Protocol for Image Transmission over IoT," 2023 Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 2023, pp. 1-9, doi: 10.1109/ICONSTEM56934.2023.10142762.

6. Sarthak Dalal, Rohan Kacheria, and **V Venkataramanan**, "A Comparative Study on Sign Language Recognition Methods", International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES), pp:1-7, IEEE, 2022.
7. Moksha Shah, Shailee Gala, Pariv Doshi, **V Venkataramanan**, Riyanshi Shah, "Security Management in Optical Fiber," International Conference on Innovative Computing, Intelligent Communication, and Smart Electrical Systems (ICES), pp. 1-4, IEEE, 2022
8. C.A Sathiyamoorthy, V Sivasankaran, **V Venkataramanan**, Mohd Faisal Mohd Sadique, and Soumyaprakash Dasmohapatra, "Impact of 5G Technology on Indian Industries," Proceedings of the International Conference on Wireless Communication, pp. 235-248, Springer, Singapore 2022.
9. A Das, **V Venkataramanan**, Study of Performance of an OFDM Transceiver Using SDR Platform, Proceedings of the International Conference on Wireless Communication, pp. 363–372, Springer, Singapore 2020.

International Conference - (02)

1. V. G. Hamsaveni, S. P. Maniraj, R. Krishnaswamy, K. Radhika, **V. Venkataramanan**, and S. Renukadevi, "Intelligent Classification of Brain Cancers by Deep Learning with Inception Network," 2022 International Conference on Computer, Power, and Communications (ICCCPC), Chennai, India, 2022, pp. 681-684, doi: 10.1109/ICCCPC55978.2022.10072278.
2. K.S. Ramesh and **V. Venkataramanan**, "LT-RTPG and 3-weight WRBIST high fault coverage and switching activity reduction using scan shift operation", International Conference on Computer Vision (ICCV-2012), Singapore.

Books/Book Chapters

International Book Chapter (Scopus) - (01)

1. **V Venkataramanan**, S Lakshmi, W Dalmet, M Khaja, and I Kherani, LTE Baseband Receiver Implementation on Simulink, Proceedings of the International Conference on Wireless Communication, Lecture Notes on Data Engineering and Communications Technologies, pp. 387–395, Springer, Singapore 2020

National Book Chapter – (05)

1. Pardeep kumar, **V. Venkataramanan**, J.K. Periasamy, G. Geetha, "Framework for communication between teachers and students based on RFID", proceedings of recent trends in Intelligent automation and computing techniques, pp. 49-52, ISBN: 978-93-94639-07-2, 2023.
2. Abhishek Negi, Abhishek Tripathi, Ayush Lidhu, and **Venkataramanan V.**, "IoT-Based Smart Shopping System", pp. 146–148, Proceedings for DJ STRIKE 2021, ISBN: 978-93-5437-776-1, 2021.

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3. Heta Shah, Ankit Tripathi, Jeel Mehta, Sandeep Jala, Neeti Adhia, Parshvi Doshi, and **Venkataramanan** "Library Anti-theft and Security System," pp. 86–92, Proceedings for DJ SPARK 2021, ISBN: 978-93-5437-739-6.
4. Ashwin Swaminathan, Soham Deshpande, and **Venkatramanan V.**, "Predictive Algorithm-based Traffic Regulation Enforcer", pp. 133–136, Proceedings for DJ STRIKE 2020, ISBN: 978-93-5391-770-8, 2020.
5. Pooja Maniyar, Hinal Panchal, Ishaan Pilla, Abhishek Dubey, Viren Gala, Yash Nirmal, Mitesh Parmar, and **Venkataramanan V.**, "Railway Crack Detection Robot", pp. 137–141, Proceedings for DJ STRIKE 2019, ISBN: 978-93-5346-095-2, 2019

Patents/Copy Rights

1. An Artificial Intelligence-Based System for the Detection of Breast Cancer in the Human Body, Application No. 202141007724 A, published.
2. 6-Bar Linkage Mechanism for Rover Suspension On Uneven Inclines, Application No. 202321049933 published

IPR/ Copyrights

1. Design of Scarecrow device - Design Grant Awarded

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

Workshop

1. Micro-strip patch MIMO antenna design using IE3D and testing, SPIT Andheri Mumbai, October 8, 2016.
2. Online Certification Courses, IIT Madras, May 6, 2015
3. Design and Analysis of RF Circuits Using Ansys High Frequency Structure Simulator (HFSS), Arunai Engineering College, November 6–7, 2014.
4. Online Certification Courses, IIT Madras, March 15, 2014
5. Xilinx 7 Series FPGAs and VIVADO Design Flow, IISC Bangalore, January 22nd, 2014
6. Illuminate 2013: A Series of Pre-Eureka Business Plan Workshops, E Cell, IIT Bombay, and Nurture Talent Academy, September 28th, 2013
7. Effective Utilization of NPTEL Resources, IIT Madras, September 20, 2013
8. NPTEL Online Courses, IIT Madras, February 25, 2014
9. NPTEL Workshop, IIT Madras and Arunai College of Engineering, July 13, 2013
10. Intensive Introduction to Lab View, Arunai College of Engineering, March 16, 2013

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11. Research Issues and Challenges in Mobile Adhoc Networks, Arunai College of Engineering, 21st to 22nd September 2012
12. Education Technology, Arunai Engineering College
13. RF and Microwave Technologies and Their Applications, Kamban Engineering College, 1st to 2nd December 2011
14. Embedded Systems: Current Trends and Career Prospects, Arunai Engineering College, November 19, 2011.

FDP/STTP/Tutorial Session

1. Recent Trends and Innovations, Sathyabama Institute of Science and Technology , July 13th to 18th July 2020, 6 days
2. Evolution of Teaching Learning Process - Post COVID 19 , Bharath Institute of Higher Education and Research, 11th May 2020 to 15th May 2020, 5 days
3. Adaptive Signal Processing: The Road map to machine learning, D.J. Sanghvi college of Engineering, January 7 to 11.1.2020, 5 days
4. Recent Trends in Wireless Networks , D.J. Sanghvi college of Engineering, January 2nd to January 7th, 2019, 6 days
5. Wavelets, D.J. Sanghvi College of Engineering, 2nd and 3rd August 2019, 2 days
6. Pushing Boundaries of Wireless Technologies, SPIT Andheri Mumbai, January 2nd to January 6th, 2018, 5 days
7. Control Systems, IIT Kharagpur – Arunai College of Engineering, Dec 2014, 7days
8. Signals and Systems, IIT Kharagpur – Arunai College of Engineering, January 2nd to January 12th, 2014, 11 days
9. VLSI Design, Arunai Engineering College, Dec 9th to Dec 15th, 2013, 6 days
10. Integrated Electronic Circuits Education Using NI Platform, Rajalakshmi Engineering College, Nov 18th to Nov 20th, 2013, 3 days
11. Instructional Design and Delivery System, NITTTR Chennai and Arunai College of Engineering, June 28th to June 30th, 2013, 3 days
12. Digital Signal Processing, MIT Campus, Chennai – 44, From June 17 to June 23rd, 2013, 6 days
13. 4G wireless Computer Networks, Kamban Engineering College, 6th Mar 2011, 1 day

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Webinars

1. 5G Technology, D.J. Sanghvi College of Engineering, 31.7.2020
2. Arduino with TinkerCAD: Open-Source Real-Time Emulator, ALIAH University, West Bengal, July 11, 2020
3. Recent Trends in Microwave Engineering and the IoT D.J. Sanghvi College of Engineering, 6.6.2020–7.6.2020
4. Leadership Talk, MHRD Innovation Cell, 6.6.2020
5. Leadership Talk, MHRD Innovation Cell, 16.5.2020
6. Solar panel system for your home, Tagore Engineering College, May 2, 2020
7. "Online Webinar Series April 2020: Network Devices and Security Perspective, AI for a Better Future, Trends in IoT and its Application, Electronic Circuit Simulation using TinkerCAD" Excel Engineering College, Komarapalayam, 29.04.2020–04.05.2020
8. Mind-Quench: AI and ML: Introduction, Use Cases, and Applications, Vidyalankar School of Information Technology, 4.5.2020
9. Importance of Undergraduate Research in an Academic Institution, Vidyalankar School of Information Technology, 5.5.2020
10. Experience with IoT, Vidyalankar School of Information Technology, 5.2020
11. Industrial Automation, Karunya University, 30.4.2020, 4.5.2020, 8.5.2020
12. "How to Get Published in a Scientific Journal: From Research to Publication," Sri Sairam Institute of Technology, 27.4.2020

Organized

1. Organized Unplugged 1.0 – National Level Hardware Hackathon as a faculty coordinator in collaboration with Blues - USA on 9,10, March - 2024.
2. Organized DJ Strike – Innovative product development project student competition as a faculty coordinator on 2018
3. Organized DJ Strike – Innovative product development project student competition as a faculty coordinator on 2019
4. Organized DJ Strike – Innovative product development project student competition as a faculty coordinator on 2020
5. Organized DJ Strike – Innovative product development project student competition as a faculty coordinator on 2021
6. One-day workshop on the National Programme on Technology Enhanced Learning (NPTEL) in association with IIT Madras on July 13, 2013.

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7. The International Conference on New Horizons in Green Energy with Smart Communication Systems (ICGESCS-2013)
8. IEEE Sponsored Two-Day Workshop on Research Issues and Challenges in Mobile Adhoc Networks, 2012.
9. RF and Microwave Technologies and Their Applications, 2011.

Delivered

1. Invited as a guest speaker to present a lecture on the Introduction to CPS, Architecture and its Types in a one-week short-term training session on the Designing Cyber-Physical Systems & IoT Application Development in 2024 at Dr. D. Y. Patil College of Engineering & Innovation, located in pune, 9th January, 2024.
2. Invited as a guest speaker to present a lecture on the Introduction to CPS, Architecture and its Types in a Skilling Program on “Designing Cyber-Physical Systems & IoT Application Development” at SPIT, Andheri, 9th january,2024
3. Invited as a guest speaker to present a lecture on the applications of Internet of Things (IoT) for emerging artificial intelligence (AI) and machine learning (ML) technologies in a one-week short-term training session on the advancements in IoT and its applications in 2023 at Ramarao Adik Institute of Technology, located in Navi Mumbai, 20th December ,2023.
4. Invited as a guest speaker to present a lecture on "End-to-End IoT" at a winter internship program held by the Department of Computer Engineering at KJ Somaiya Institute of Technology. 26th December, 2023.
5. Conducted hands-on training, "MATLAB Workshop: Basics Session," as a resource person at D.J. Sanghvi College in September 2023.
6. Invited as a judge for Round 2 of Hardware Hackathon Peripherathon 1.0, held on May 7, 2023, at SPIT, Andheri.
7. Conducted hands-on training, "MATLAB Workshop: Basics Session," as a resource person at D.J. Sanghvi College in September 2022.
8. Conducted a hands-on training "Workshop on MATLAB Programming" as a resource person at D.J. Sanghvi College in March 2022.
9. Conducted the guest lecture on "Internet of Things (IoT) Wireless Emerging Technologies: The Promises and the Challenges" as a resource person at CMS Engineering College, Namakkal, in 2022.
10. Conducted the workshop on "Simulation Tool: Tinker CAD" as a resource person at Sathyabama Institute of Science and Technology, Chennai, in 2020.
11. Conducted the workshop on "Simulation Tool: Tinker CAD" as Resource Person and Builders Engineering College, Kangayam, in 2020.
12. Conducted a training workshop on "How to Write the Technical Paper" as a Resource Person for D.J. Sanghvi College in 15th January, 2020.
13. Conducted a training workshop on "How to Write the Technical Paper" as a Resource Person for D.J. Sanghvi College in 5th February 2019.

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14. Conducted hands-on training on "MATLAB for Engineering Applications" as a resource person for D.J. Sanghvi College in 2017.
15. Conducted hands-on training on "MATLAB for Engineering Applications" as a resource person for D.J. Sanghvi College in 2017.
16. Conducted the seminar on "overview of a project" as a resource person for Arunai College of Engineering in 2012.
17. Conducted the seminar on "Technology: 4G" as a resource person for Arunai College of Engineering in 2012.

Notable Key Scholastic Achievements	
1.	Received the excellent reviewer award four times from the editorial board of the International Journal of Interactive Mobile Technologies (IJIM) (Scopus Indexed).
2.	IJICTE's Editorial Board has ranked the review as "Very Strong" ten times, making it one of the journal's highest possible rankings in the EiC Review. (Emerging Sources Citation Indexed)
3.	The American Astronautical Society (AAS) awarded the Certificate of Participation for 2019 to a mentored college-level DJS ARYA-CANSAT team competing in an international competition. The team is continuously securing top positions worldwide.
4.	Received the award for a role as mentor for the college-level team on the topic Ecosystem Bridging Government," organized by industry and academia (DST and Texas Instruments), India Innovation Challenge Design Contest 2018, May 2018.
5.	Received the best paper award for the paper titled "FPGA Design and Implementation of LTE Physical Layer Modulation Techniques using Xilinx System Generator," organized by Sathyabama Institute of Science and Technology in association with the University of Derby RACES-2019, November 13th to 15th, 2019.
6.	Secured first rank during the UG Degree Program (2008)

Notable Positions and Responsibility	
1.	Invited to act as an examiner for the research progress seminar at RAIT Nerul, Navi Mumbai.

Date: / / 2024

Signature of Faculty Member