



# Sai RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi

Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution

Sai Leo Nagar, West Tambaram, Chennai - 600 044. [www.sairamit.edu.in](http://www.sairamit.edu.in)



Name : **Mr. M. AFSAR ALI**

Designation : **Assistant Professor**

DOB : 30/04/1979

Unique ID (College ID) : SITT24CS06

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Qualification : B.E. (ECE)&M.E. (APPLIED ELECTRONICS),  
Ph.D (WIRELESS COMMUNICATION)



## Education:

UG	B.E/B.TECH	DATE OF COMPLETION	UNIVERSITY	% OF MARKS	CLASS
	B.E-Electronics and Communication Engineering	2000	University of Madras	76	First Class with Distinction
PG	M.E/M.TECH	DATE OF COMPLETION	UNIVERSITY	% OF MARKS	CLASS
	M.E. Applied Electronics	2006	Sathyabama University, Chennai.	83	First Class with Distinction
PhD	PhD	DATE OF COMPLETION	UNIVERSITY	% OF MARKS	CLASS
	PhD Electronics and Communication Engineering	Currently pursuing	B.S. Abdur Rahman Crescent Institute of Science and Technology	Currently pursuing	Currently pursuing

Experience:

Name of Post held	Institution/University in which worked	Period of Working	Number of Years	Total Years of Teaching Experience
Assistant Professor	Sri Sai Ram Institute of Technology, Chennai	October 2024	Till Date	19 Years
Associate Professor	Siddharth Institute of Engineering & Technology, Puttur, Andhra Pradesh.	May 2016 to October 2020	4 Years 5 Months	
Associate Professor	SKR Engineering college, Chennai	June 2012 to May 2016	4 Years	
Assistant Professor (Selection Grade)	Hindustan University, Chennai, Tamil Nadu.	June 2010 to May 2012	2 Years	
Associate Professor	Siddharth Institute of Engineering & Technology, Puttur, Andhra Pradesh.	December 2006 to June 2010	3 Years 6 Months	
Senior Lecturer	MGR University, Chennai, Tamil Nadu.	September 2006 to December 2006	4 Months	
Lecturer	LCR College of Engineering & Technology, Thiruvallur, Tamil Nadu.	June 2002 to August 2004	2 Years 2 Months	
Faculty	Computer Software College (CSC), Arakkonam, Tamil Nadu.	March 2001 to May 2002	1 Year 2 Months	

<b>Area of Specialization</b>	Wireless Communication
<b>Research Interest</b>	Internet of Things, Wireless Communication, Underwater Acoustic Networks
<b>Experience in years</b>	19 Years
<b>Number of papers published in journals</b>	4
<b>Number of International Conferences attended</b>	7
<b>Number of National Conferences attended</b>	2
<b>No. of workshop &amp; FDP attended</b>	37
<b>No. of Research Guidance</b>	20 UG and 6 PG projects, 1 project guided for Smart India Hackathon 2025
<b>Courses Taught in UG / PG Level:</b>	<ul style="list-style-type: none"> <li>Electronic Devices and Circuits, Electronic Circuits I/II, Linear Integrated Circuits, Analysis and Design of Analog Integrated Circuits</li> </ul>

	<ul style="list-style-type: none"> <li>• Digital Design, Computer Architecture,</li> <li>• VLSI Design, Microprocessor and Microcontroller</li> <li>• Communication Theory and Systems, Analog and Digital Communication</li> <li>• Cellular Mobile Communication, Computer Communication Networks</li> </ul>
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Professional Membership	IEEE MEMBERSHIP IETE LIFE TIME MEMBERSHIP
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<b>List of Publications:</b>	<p>➤ <b>Journals:</b></p> <ul style="list-style-type: none"> <li>• M.Afsar Ali, S. Kaja Mohideen, N. Vedachalam, published a paper titled “Adaptive Range Optimization Using Henry Gas Solubility Optimization for Energy-Efficient Acoustic Pinger Detection in Shallow Coastal Waters”, International Journal of Electrical and Electronics Engineering (IJECE), 2025. ISSN: 2348-8379, Volume 12 Issue 10, 55-68, October 2025. doi: 10.14445/23488379/IJECE-V12I10P105. Published online October 2025.</li> <li>• M.Afsar Ali, S. Kaja Mohideen, N. Vedachalam, published a paper titled “A Passive Sonar Based Underwater Acoustic Channel Model for Improved Search and Rescue Operations in Deep Sea”, in the International Journal of Electrical and Computer Engineering (IJECE), 2024. doi:10.11591/IJECE.V14I6.PP6148-6159. Published online December 2024.</li> <li>• Published a paper titled “Smart Glasses for Blind People Based on ARM Embedded System Module” in International Organization of Scientific Research Journal of Engineering (IOSRJEN) ISSN (e): 2250-3021, ISSN (p): 2278-8719 Vol. 09, Issue 7 (July. 2019),   S (II)    PP 32-38.</li> <li>• Published a paper titled “Speech Recognition Technology for Car Like Mobile Robot” in International Journal of Advance Research in Science and Engineering ISSN (O) : 2319-8354, ISSN (P) : 2319-8346.</li> </ul> <p>➤ <b>International Conferences:</b></p> <ul style="list-style-type: none"> <li>• Presented a paper titled "Deep Learning Based Underwater Channel Classification for Optimized Wireless Communication" in the Third International Conference on Recent Advances in Engineering, Technology and Management held at C.K. College of Engineering and Technology, Tamil Nadu, India on 23rd May 2025.</li> <li>• Presented a paper titled "Acoustic beacon detection in search and rescue operation using a passive sonar system with an acoustic lens in ambient noise shallow water environments" in Sixth International Conference on Electrical and Computer Technologies (ICAECT 2024) held at SENGUNTHAR ENGINEERING COLLEGE (An Autonomous Institution), Tiruchengode, Tamil Nadu, India during 26 - 27, September 2024 in ONLINE Mode and published in Advances in Electrical and Computer Technologies, 1st ed., CRC Press, Taylor &amp; Francis Group, 2025, pp. 1–7. doi: 10.1201/9781003515470.</li> <li>• Presented in “IEEE International Conference ICAECT 2022, Bhilai”, Review article titled “Current Status of Underwater Wireless Communication Techniques: A Review” was presented on 21.04.22. It was indexed in IEEE Xplore (Scopus Indexed) on 01.07.2022 with ISBN:978-1-6654-1121-9. doi: 10.1109/ICAECT54875.2022.9807890.</li> <li>• Presented a paper titled “Speech Recognition Technology for Car Like Mobile Robot” in 11th International Conference on Recent trends in Engineering, Science and Management held on 22/10/17 at IETE, O.U. Campus, Hyderabad, India.</li> </ul>
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	<ul style="list-style-type: none"> <li>Presented a paper titled “A Novel Methodology for n-bit full comparators using quantum cellular automata” in the International Conference on Advances in Applied Engineering and Technology – 2015 (ICAAET -2015) organized by Syed Ammal Engineering College, Ramanathapuram, Tamilnadu, India on May 14 – 16, 2015.</li> <li>Presented a paper titled “Design and Synthesis of N-Bit reversible arithmetic and logic unit (ALU)” in the International Conference on Advances in Applied Engineering and Technology – 2015 (ICAAET -2015) organized by Syed Ammal Engineering College, Ramanathapuram, Tamilnadu, India on May 14 – 16, 2015.</li> <li>Presented a paper titled “Energy Aware Video Encoding for Image Quality Improvement in Battery Operated Surveillance Camera” in the “International Conference in Magna on Emerging Engineering Trends ICMEET-2K13” organized by Magna College of Engineering, Chennai held on 10th, 11th and 12th April 2013.</li> <li>Presented a paper in International Conference titled “Memory Based Realization of FIR Digital Filter Using Proposed LUT” held at Teja Shakthi Institute of Technology, Coimbatore (Jan’ 2012).</li> </ul> <p>➤ <b>National Conferences:</b></p> <ul style="list-style-type: none"> <li>Presented a paper titled “Underground Cable Fault Detection System based on IOT” in the National Consultation on the Role of Science and Technology in National Development on 21st March 2017 at Siddharth Institute of Engineering and Technology, Puttur, Andhra Pradesh organized by The Indian Science Congress Association Thirupathi Chapter.</li> <li>Participated in the National conference NCIEEE 2012 on “Computational Intelligence in Electrical and Electronics Engineering” held at Sathyabama university, Chennai (March 2012).</li> </ul>
<b>FDP’S Attended:</b>	<ul style="list-style-type: none"> <li>Participated in the 5-days Faculty Development Programme on “NextGen Disruptive Technologies” from 26.12.2025 to 31.12.2025 conducted by Department of CSE, Sri Sai Ram Institute of Technology, Chennai in association with Computer Society of India (CSI).</li> <li>Participated in the 5-days Faculty Development Programme on “AI-Driven Pedagogy: Transforming Teaching Practices with Intelligent Tools” from 01.12.2025 to 05.12.2025 conducted by Department of CSE, Sri Sai Ram Engineering College, Chennai in association with Computer Society of India (CSI).</li> <li>Participated in the 5-days Faculty Development Programme on “Perspectives of 6G Towards Next-Gen Communications” from 07.04.2025 to 11.04.2025 conducted by Department of ECE, Sri Sai Ram Engineering College, Chennai.</li> <li>Participated in the 6-days ISTE Sponsored Faculty Development Programme on “Data Journey: Discovering Science and Visualization” from 16.12.2024 to 21.12.2024 conducted by Sri Sai Ram Engineering College, Chennai.</li> <li>Participated in the one-week online Faculty Development Program on “Cryptography &amp; Network Security: Principles and its Applications (CNPA – 2024)” from 18.11.2024 to 23.11.2024 conducted by Annant Gyan Knowledge and Skills Private Limited, Bihar, India.</li> <li>Participated in the 5-days online skill development program on “Hands-on 5G Implementation on MATLAB (5GHM-2024)” from 26.02.2024 to 01.03.2024 organized by Annant Gyan Knowledge and Skills Private Limited, Bihar, India.</li> <li>Participated in the 5-days workshop on “Underwater Exploration, Opportunities, and Technologies” from 24.07.2023 to 28.07.2023 at Vellore Institute of Technology (VIT), Chennai jointly organized with IITG.</li> <li>Participated in the Online Hands-on session on “Performance Analysis of Wireless Communication System” by IIT Professor during 26.06.2023 to 01.07.2023 by Annant Gyan Knowledge and skills Private Limited, Bihar.</li> <li>Participated in the SERB sponsored High-end (KARYASHALA) workshop on “Application of Machine Learning in B5G Wireless Communication” during</li> </ul>

- 18.12.2022 to 24.12.2022 at National Institute of Technology (NIT), Tiruchirapalli.
- Participated in the SERB sponsored Training and Skill Internship (VRITIKA) on “Analysis of Intelligent Reflecting Surface Systems in presence of Interference” during 05.12.2022 to 30.12.2022 at National Institute of Technology (NIT), Tiruchirapalli.
  - Participated in Online FDP from 24.01.2022 to 01.02.2022 on “Optimization Techniques: Theory, Practice, and Emerging Applications” conducted by E & ICT, National Institute of Technology (NIT), Warangal, Telangana, India.
  - Participated in One Week Online ATAL FDP on “6G Wireless Communication” during 20.12.2021 to 24.12.2021 by Indian Institute of Technology IIT, Dharwad, Karnataka.
  - Participated in One Week Online ATAL FDP on “Modulation, Coding and Multiple Access Techniques for Wireless Communications and Storage Systems” during 15.11.2021 to 19.11.2021 by Indian Institute of Technology IIT, Goa.
  - Participated in One Week Online ATAL FDP on “Signal Processing for 5G – Algorithms and Implementation” during 09.08.2021 to 13.08.2021 by Indian Institute of Technology IIT, Goa.
  - Participated in One Week Online ATAL FDP on “Modern Simulation Techniques for Engineering Research” during 26.07.2021 to 30.07.2021 by Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Kamla Nehru Institute of Technology, An Autonomous Government Institution, Sultanpur.
  - Participated in One Week Online ATAL FDP on “Wireless Communication Technologies” during 21.06.2021 to 25.06.2021 by Atal Bihari Vajpayee Indian Institute of Information Technology and Management, IIITM-Gwalior.
  - Participated in One Week International Virtual Workshop on “Research Paradigms” during 03.05.2021 to 08.05.2021 by St. Francis College, Bangalore.
  - Participated in three days National level hands on workshop on “Implementing Complex VLSI Applications using open-source EDA tools” organized by Siddharth Institute of Engineering and Technology, Puttur during 23rd to 25th January 2020 in association with Sanarys Pvt. Ltd., Bangalore and IETE, New Delhi.
  - Participated in two days workshop on “Sensor Network and IoT Implementation using Open-Source Simulator” conducted by IEEE – Computer Society of Kongu Engineering College, Perundurai on 16th and 17th August, 2019.
  - Participated in the AICTE sponsored STTP on “Embedded System based Smart Farming with less water and fertilizers via IoT Technologies” organized by Panimalar Institute of Technology, Chennai during 10th June 2019 to 15th June 2019.
  - Participated in the workshop “5G Communication and Blockchain Technology” organized by Panimalar Institute of Technology, Chennai during 21st May 2019 to 22nd May 2019.
  - Participated in the Two Days National Level Workshop on “Secure Internet of Things (SIoT)” conducted by the Department of ECE, St. Joseph’s Institute of Technology, Chennai in association with Pristine InfoSolutions Pvt.Ltd., Mumbai on 20th and 21st November 2018.
  - Obtained NPTEL-AICTE FDP certificate for successfully completing the course “Introduction to Internet of Things” during July-October 2018.
  - Participated in the Indian Council of Medical Research (ICMR) sponsored national Level Seminar on “Research Acumens in Machine Learning Algorithms for Bioinformatics Applications”, conducted by the Department of ECE, Rajalakshmi Institute of Technology, Chennai on 22nd and 23rd June 2018.
  - Participated in the one-week Faculty Development Program on “Embedded Systems and IoT Applications” organized by the E&ICT Academy, NIT Warangal at Siddharth Institute of Engineering and Technology, Puttur from 09/12/17 to

	<p>14/12/17.</p> <ul style="list-style-type: none"> <li>• Participated in the National Workshop on Innovation, Entrepreneurship and Incubation organized by the Innovation and Entrepreneurship Development Centre &amp; NEN-CLUB, VIT University, Chennai on March 23rd 2017.</li> <li>• Participated in the NPTEL workshop conducted on December 17th 2016 by IIT Madras.</li> <li>• Participated in the Two Days national Level Workshop and Hands-on-Training, entitled “RF Measurements using Network Analyzer for Wireless Communication” organized by the Department of ECE, on January 28-29, 2016 in VelTech MultiTech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai.</li> <li>• Participated in One-week FDP on “Mobile Application development on Android” held at SKR Engineering College, Chennai from 4th Jan 2016 to 10th Jan 2016 in association with Computer Society of India and VKS Technologies.</li> <li>• Participated in One-week FDP on “Competency Development in NI-labview and Data Acquisition” held at SKR Engineering College, Chennai from 28th Dec 2015 to 4th Jan 2016.</li> <li>• Participated in two days workshop on “Next Generation Technology with myRIO and NI SDR Platform” held at SKR Engineering College, Chennai during 11th and 12th July 2014.</li> <li>• Participated in National Level Workshop in Embedded &amp; VLSI Design conducted on 8th March 2012 in GKM College of Engineering and Technology, Chennai.</li> <li>• Participated in the “Faculty Enrichment Programme” conducted by Hindustan University, Chennai during July 2010.</li> <li>• Participated in the one-day Seminar on “Recent Trends in Electrical Engineering” organized by Siddharth Institute of Engineering and Technology, Puttur on 20th Feb 2009.</li> <li>• Participated in the one-day Seminar on “DSP Algorithms and VLSI Technologies” organized by Siddharth Institute of Engineering and Technology, Puttur on 21st Feb 2009.</li> <li>• Participated in one day workshop on Fuzzy Logic Control at Sri Venkatesa Perumal College of Engineering and Technology, Puttur on 7th March 2009.</li> <li>• Participated in Faculty Development Program conducted by Anna University, Chennai from 11th to 15th November 2003.</li> </ul>
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<b>NPTEL STAR ACHIEVEMENT</b>	Recognized and received NPTEL BELIEVER STAR Certificate for Jan – Apr 2025
<b>NPTEL Course Certifications Received</b>	Design Thinking – A Primer
	Introduction to Internet of Things
	Computer Networks and Internet Protocol
	Cloud Computing
	Introduction to Operating Systems
	Introduction to Industry 4.0 and Industrial Internet of Things

<b>NITTT MODULES COMPLETED AND CERTIFICATES RECEIVED</b>	Module 1 – Orientation towards Technical Education and Curriculum Aspects
	Module 2 – Professional Ethics and Sustainability

<b>OTHER CERTIFICATIONS</b>	SIRD&PR Course conducted by Rural Development & Panchayat Raj Department, completed on Oct 2025.
	Successfully completed and Received the Certificate for the Social Emotional Education: Knowledge to Practice (SEEK) Course by UNESCO Mahatma Gandhi Institute of Education for Peace and Sustainability Development (MGIEP) on Oct 2025.