

<b>Dr. D Anita Daniel</b>				
<b>Designation:</b>	<b>Associate Professor</b>			
<b>Qualification:</b>	<b>M.E, Ph.D</b>			
<b>Area of specialization:</b>	<b>Wireless Sensor Networks</b>			
<b>Experience:(As on May2023)</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	<b>1 Year</b>		<b>15 Years</b>	
<b>Number of workshop / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>3</b>		<b>15</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>Natio nal</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>-</b>	<b>5</b>	<b>-</b>	<b>8</b>
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	<b>3</b>		<b>1</b>	
<b>Professional Body Membership:</b>	<b>Life Time membership in ISTE IEEE Membership</b>			
<b>Staff Achievements:</b>	Ranked one among top 5% in NPTEL Digital Circuits, Introduction to Internet of Things, Microelectronics: Devices to Circuits courses and Simulation of Communication Systems using Matlab. Ranked one among top 2% in NPTEL System Design Through Verilog course. Completed AICTE Certification for 8 modules of NITTT- Feb 2024 Recognized as NPTEL MOTIVATED LEARNER Jan-Apr 2025. Recognized as NPTELDISCIPLINE STAR Jan-Apr 2025. Recognized as NPTELDOMAIN SCHOLARS- VLSI Design Jun-Oct 2025.			

<b>Workshop Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	1.	Image Processing in VLSI	Sathyabama University	26 <sup>th</sup> March 2014
	2.	Embedded Systems	Jayaraj Annapackiam CSI College of Engineering	30 <sup>th</sup> August 2008
	3.	Outcome Based Education	Sathyabama Institute of Science and Technology	17 <sup>th</sup> and 24 <sup>th</sup> June 2023

<b>FDP Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	1	National level FDP on Administrative Capacity Building.	Sathyabama Institute of Science and Technology (online)	25 <sup>th</sup> to 31 <sup>st</sup> October 2021
	2	National level FDP on Machine Learning and Deep Learning Techniques for Computer Aided Interpretation.	Sathyabama Institute of Science and Technology (online)	18 <sup>th</sup> to 23 <sup>rd</sup> May 2020
	3	3-day Face-to-Face FDP on the theme “Inculcating Universal Human Values in Technical Education”	Sri Sai Ram Engineering College, Chennai	10th to 12th July 2023
	4	ATAL FDP on “Quantum Computing And Its Future Scope”	Sri Sai Ram Engineering College, Chennai	18th to 26th Dec 2023
	5	ATAL FDP on “Embracing Design Thinking for success”	Sathyabama Institute of Science and Technology	30 <sup>th</sup> Oct to 4 <sup>th</sup> Nov 2023

<b>FDP Details:</b>	<b>Sl. No.</b>	<b>Title</b>	<b>Venue</b>	<b>Month/Year</b>
	6	FDP on “Recent Trends in Computing 3.0”	Vishwakarma Institute of Technology, Pune (online)	9 <sup>th</sup> to 13 <sup>rd</sup> Oct 2023
	7	3-days FDP on “Deep learning Toolkits and Their Diverse Uses”	Sri Sai Ram Engineering College, Chennai	5th to 7th July 2023
	8	Introduction to Internet of Things	AICTE-NPTEL	July to Oct 2023
	9	Circuit creation analysis simulation and PCB design using MULTISIM design	NITTTR	3rd to 7th Jun 2024
	10	System Design Through Verilog	AICTE-NPTEL	July to Oct 2024
	11	Microelectronics: Devices to Circuits	AICTE-NPTEL	July to Oct 2024
	12	6 Days Online Faculty Development Program on “IoT In Focus: Emerging Trends And Real-World Challenges	Sri Sai Ram Engineering College, Chennai	20th to 25th Jan 2025
	13	Wadhvani Faculty Development Program	Wadhvani Foundation	7 <sup>th</sup> Aug 2025
	14	Simulation of Communication Systems using Matlab	AICTE-NPTEL	July to Oct 2025
	15	Power Electronics with Wide Band Gap Devices	AICTE-NPTEL	July to Oct 2025

## Publication Details:

1. Anita Daniel, S. Emalda Roslin, "Data Validation and Integrity Verification for Trust based Data Aggregation Protocol in WSN" *Microprocessors and Microsystems*, Elsevier, Feb 2021, Vol.80, <https://doi.org/10.1016/j.micpro.2020.103354> (IF 1.161, SJR 0.303, SNIP 0.879, Scopus, Web of Science Indexed).
2. Anita Daniel, S. Emalda Roslin, "An Efficient Trust Based Secured Data Aggregation Technique In WSN", *Indian Journal of Computer Science and Engineering* Vol.12 No. 1 Jan-Feb 2021- Scopus Indexed.
3. Anita Daniel. D and Emalda Roslin. S (2021), "An Efficient Data Aggregation Technique for Green Communication in WSN", *International Journal of Engineering Trends and Technology*, Volume 69 Issue 3, 138-146, March 2021, p-ISSN: 2349-0918 Scopus Indexed.
4. Anita Daniel, Bestha Tharun Kumar, Basavaraju Sreepada Dathu, S. Emalda Roslin, "An Energy Efficient Authenticated Data Aggregation Protocol in WSN", *TEST Engineering and Management*, Vol:83, March 2020- Scopus Indexed.
5. Anita Daniel, S. Emalda Roslin, "WSN Security: An Asymmetric Encryption and Hash Function based approach", *International Journal of Engineering Research & Technology*, Volume 5, Issue 02, Feb 2016.
6. Anita Daniel, E. Jothi Lakshmi, "Area Efficient Z-TCAM by using SRAM based Architecture for TCAM" *International Journal of Advanced Research Trends in Engineering & Technology*, Volume 3, March 2016.
7. Anita Daniel, N. Selvarasu, "Modified Bypassing Multiplier for Power Efficient FIR Filter", *International Journal on Intelligent Electronic System*, Vol. 8, No. 1 Jan 2014.
8. Daniel D, A., Vishaanth, R. P., & Saravanan, T. K. (2024). Smart Railway Platform with Train Arrival Detection. *International Journal of Microsystems and Iot*, 2(3), 632–639.

## Conference Details

1. Anita Daniel, S. Emalda Roslin, "A Review on Security Frameworks with Efficient Energy Preservation Techniques in Wireless Sensor Networks", *IEEE International Conference on Communication and Signal Processing - ICCSP' 15*, April 2015, ISBN 978-1-4799-8080-2, pp 661-665 - Scopus Indexed.

2. S. Emalda Roslin, N.M. Nandhitha and Anita Daniel (2014), “Transposition Based Symmetric Encryption and Decryption Technique for Secured Image Transmission through Internet”, IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT '14), March 2014, ISBN 978-1-4799-2395-3/14, pp 1578-1583 – Scopus Indexed.
3. Anita Daniel D, Vishaanth R P, Saravanan T K, “Smart Railway Platform with Train Arrival Detection”, 4th International Conference on Microelectronics, Communication Systems, Machine Learning & Internet of Things (MCMII-2023).
4. Anita Daniel D, Vishaanth R P, Saravanan T K, “Next-Gen Smart Railway Platform with API integration”, International Conference on Technological Innovative Transformation to Industry 5.0 (ICTII-2024).
5. Lavanya A, Rajakumar. B, Anita Daniel D and Surendran. R, “EnBF\\_Crypt: Enhanced Blowfish based Cryptography with Optimal S-Box Selection for Secure Data Sharing”, 7th International Conference on Intelligent Sustainable Systems (ICISS),2025,501-500.

### **Book Publication**

1. QUANTUM COMMUNICATION: THE DAWN OF THE NEW TELECOMMUNICATION ERA (2025) by Anbalagan Elumalai, Dr. Anita Daniel D, Saravanan Elumalai, Dr P.Ajitha. WELL TECH INTERNATIONAL PUBLISHING HOUSE.
2. MACHINE LEARNING AND QUANTUM COMPUTING GUIDE FOR HUMANS(2025) by Ms. Anandhi T, Dr D Anita Daniel, Dr. Deeptha R, Dr. K. Sathyamoorthy. LIBRO INTERNATIONAL PUBLISHERS.

### **Monograph**

S. Emalda Roslin, N.M. Nandhitha, Rekha Chakravarthi, M.S.Sangeetha and Anita Daniel, “A Monograph on Computational Intelligence for Cluster Head Selection in WSN”, Vandana Publications, ISBN 978-81-936671-8-7.