



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
Deemed to be University u/s 3 of UGC Act, 1956  
**VADAPALANI**

**Dr. Shirly Edward A, B.E.,M.Tech., Ph.D.**  
**Associate Professor & Head**  
**Department of Electronics and Communication Engineering**  
**Mobile: 9500091541**

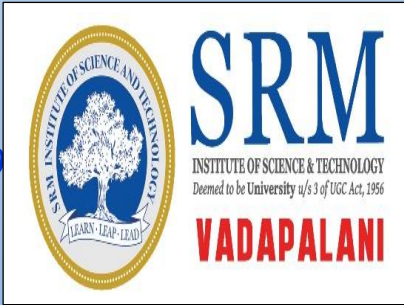


**Areas of Research:** Wireless Communication, VLSI Signal Processing, Internet of Things

**Google Scholar Link:**

<https://scholar.google.com/citations?user=iVBF1yoAAAAJ&hl=en>

- **TEACHING AND RESEARCH EXPERIENCE : 22 years**
- **PUBLICATIONS:** 60 International Journals/Conferences and 20 National Journal/Conferences
- Currently guiding 6 Ph.D. research Scholars and filed 5 Patents
- Published a book on '**VLSI Design**' by Scholars Press
- ISTE and BNY Mellon certified IoT trainer
- Senior member in **IEEE**, Fellow in **IEI**, Life Member in **ISTE**, and member in **IAENG** and **ISCA**
- Reviewer in peer reviewed International Journals
- Recipient of AICTE funding, Best Teacher Award and Award for Research Publications



**Dr.Priti Rishi, M.E., PhD,**  
**Associate Professor**  
**Department of Electronics & Comm. Engg.**

[prতির@srmist.edu.in](mailto:prতির@srmist.edu.in)

Google Scholar

Profile: <https://scholar.google.com/citations?user=ZrXiExMAAAAJ&hl=en>



Teaching and Industrial Experience: 13 years

### Areas of Research

- Optical Fiber Communication
- Networking
- Machine Learning

### Publications and Funded Project details:

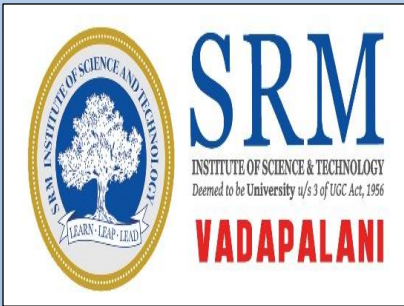
- No. of publications National / International: 5

### Book Chapters

1. Book chapter titled “Knowledge Representation and Learning Mechanism Based on Networks of Spiking Neurons” accepted in CRC Press Taylor and Francis in January 2022, ISBN No 9781003126898. (Scopus Indexed)
2. Book chapter titled “Deep Learning in Medical Image Analysis: Recent Advances and Future Trends” published in CRC Press Taylor and Francis in March 2023. (Scopus Indexed)

### Book Editor

- Editor for the book “IoT and Machine Learning-computational and technical combination for future smart applications” Taylor and Francis, CRC Press, June 2023.



**Dr. P.NAGARAJAN M.E., Ph.D.,**  
**Associate Professor**  
**Department of ECE**  
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&hl=en](https://scholar.google.com/citations?user=tnk18bEAAAA&hl=en)

<https://www.researchgate.net/profile/P-Nagarajan-2>

[https://www.scopus.com/authid/detail.uri?authorId=56  
328077100](https://www.scopus.com/authid/detail.uri?authorId=56328077100)

<https://orcid.org/0000-0002-0040-2515>

<https://www.webofscience.com/wos/author/record/AAZ-1559-2021>

## Areas of Research

- VLSI Design - Circuits and system modeling ( Analog , Digital and Mixed Signal Domain )
- Advanced Communication Systems
- Biomedical Image and signal Processing
- Educational Research ( Learner centric pedagogy and andragogy)

## PROJECTS CARRIED OUT:

**Design and Development of On board Miniature satellite module** is completed **with various sensors payload** to monitor the space environment. It was **launched on 18th November 2022 at ISRO-SRIHARIKOTA** as one of the payloads in VIKRAM –S (INDIA'S first private launching Rocket developed by SKYROOT Space startup) into Sub orbital layer. (100 Kms above mean sea level - in Karman layer)

## **PUBLICATIONS, PATENTS AND FUNDED PROJECT DETAILS:**

- No. of publications National / International: 38
- Published **NINE numbers of Intellectual Patents** (Indian Patent) in VLSI circuit modeling & system Design and Biomedical image processing.
- One Design patent is registered in IPR and received registration certificate.
- **Received a grant of Rs. 50000 /- from CSIR (Council of Scientific and Industrial Research)** to conduct the workshop for researchers in the domain of VLSI architectures for biomedical image processing Applications.
- Applied funded research proposal for SERB and TNSCST.
- Received seminar grant from CSIR rupees 50,000/- and conducted two day seminar for faculty in the year of 2019.

## **RESEARCH PROJECTS UNDER DEVELOPMENT**

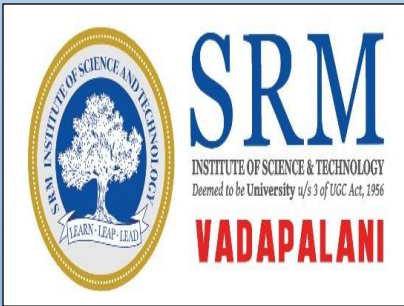
- Research proposal under MIXED SIGNAL VLSI domain for advanced communication & space application is completed. Currently optimization for power reduction is going on.
- The Pico satellite module for EDU purpose is under designing phase.

## **GUIDING PhD SCHOLARS:**

- Guiding three Ph.D. scholars in the domain of VLSI design and RF circuit modeling.
- Acting as Doctoral Committee Member for 11 Ph.D. scholars - pursuing Ph.D. under Anna University, Chennai.

## **AWARDS:**

- Recipient of university rank holder for Master of Engineering in the year 2009 from Anna University.
- Received Gold Medal from Anna University for topper in M.E course
- Secured Academic Topper awards in Bachelor of Engineering from OCET affiliated to Anna University Chennai.
- Given guest lecture and expert talk in various technologies, teaching and learning pedagogy and IPR creation and filing for faculty and students in various Engineering colleges and technical universities.



**Dr. S.Karthik M.Tech, Ph.D.,**  
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Google Scholar Profile:

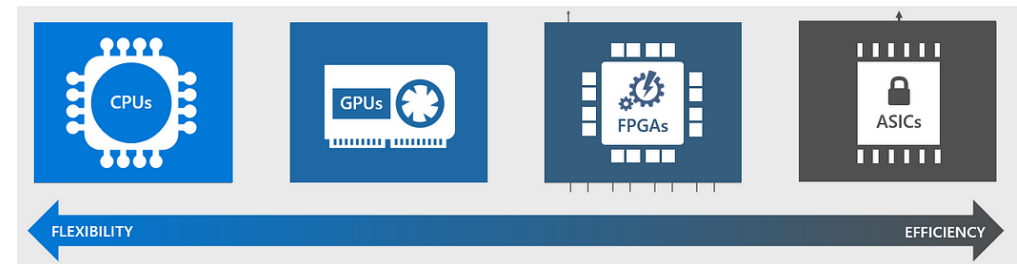
<https://scholar.google.com/citations?user=6puUd9UAAAAJ&hl=en>

## Areas of Research

- Hardware/Software Co-Design, Reconfigurable Computing, VLSI, ASIC, FPGAs
- High Performance Computing, Design for Testability

### Publications and Funded Project details:

- No. of publications National / International: 40
- Title: Machine Learning assisted Device Modeling as Principal Investigator  
Funding Agency: WSU, USA Amount: Rs.50,000



### Guiding PhD Student: 4 Nos.

- ✓ Ongoing : 04

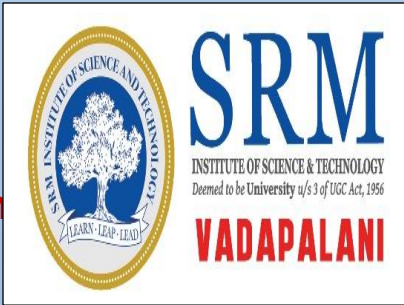


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**VADAPALANI**

**Dr. ANITA CHRISTALINE. J**  
**B.E, M.E, PhD.**  
**Assistant Professor (Sr. G.)**  
**Department of ECE**



<b>Teaching Experience :</b>	<b>19 years</b>
<b>Research Area</b>	<b>Artificial Intelligence, Computational Optimization, Computational Neuroscience, Cyber Security, Image Steganalysis.</b>
<b>No. of Publications in International indexed Journals</b>	<b>25 (9 SCI indexed, 16 Scopus indexed)</b>
<b>Patents Published</b>	<b>05</b>
<b>PhD Supervisor Recognition</b>	<b>SRM Institute of Science and Technology, Kattankulathur, Chennai.</b>
<b>No. of PhD students guiding at present</b>	<b>04</b>
<b>Membership</b>	<b>ISTE, ISCA, IEEE.</b>
<b>ORCID ID</b>	<b>0000-0001-5884-5733 <a href="https://orcid.org/0000-0001-5884-5733">ANITA CHRISTALINE JOHNVICTOR (0000-0001-5884-5733) - ORCID</a></b>
<b>H index in GOOGLE SCHOLAR</b>	<b>8 <a href="https://scholar.google.co.in/citations?user=PYgFFrEAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=PYgFFrEAAAAJ&amp;hl=en</a></b>
<b>H index in SCOPUS</b>	<b>7 <a href="#">Anita Christaline, J. - Author details - Scopus Preview</a></b>
<b>H index in WOS</b>	<b>4 <a href="#">JOHNVICTOR, ANITA CHRISTALINE - Web of Science Core Collection</a></b>
<b>Vidwan Profile link</b>	<b><a href="https://vidwan.inflibnet.ac.in/profile/306327">https://vidwan.inflibnet.ac.in/profile/306327</a></b>
<b>Research Gate link</b>	<b><a href="#">ANITA CHRISTALINE JOHNVICTOR (researchgate.net)</a></b>



**Mrs.R.SATHIYA B.E,M.E,Ph.D(pursuing).,**  
**Assistant Professor (Sr.G)**  
**Department of ECE, Google scholar:**  
**[com/citations?user=qgA\\_dW8AAAAAJ&hl=en](https://scholar.google.com/citations?user=qgA_dW8AAAAAJ&hl=en)**



### Areas of Research

- Electric Vehicles,PV Cell,Renewable Energy,
- Power Electronics,converters,Solid State Devices,
- MATLAB TOOLS.

### **Publications and Patent details:**

- No. of publications National / International: 12
- No .of patents registered:03

**Mr.Rathinakumar P, M.E.,**  
**Assistant Professor (Sr.G)**



**Department of ECE**

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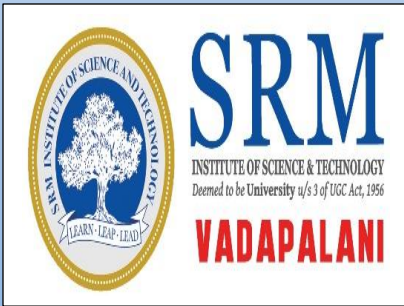
## Area of Research

Electromagnetics, Antenna

### Publications and Funded Project details:

- No. of publications National / International: 14
- **Rathinakumar Perinbaraj**, Bhuvaneshwari Balachander, "Tunable THz dielectric resonator-graphene based dual port radiator with circular polarization and beam tilting features", *Optical Engineering*, Vol. 62, Issue 5, 055102 (May 2023). <https://doi.org/10.1117/1.OE.62.5.055102>.
- Babu, W.R,P. **Rathina Kumar**, Murali, L. *et al.* Broadband graphene and metasurface-loaded solar thermal absorber design for visible and infrared regions. *Opt Quant Electron* **55**, 68 (2023). <https://doi.org/10.1007/s11082-022-04331-1>
- **P. Rathina Kumar, P. Muthu Kannan**, Deep learning based optimization algorithms for antenna design: A review, September 2020 *Journal of Critical Reviews* 7(5):1201-1207, DOI:10.31838/jcr.07.05.226
- R. Suryakailash, **P. Rathina kumar**, S. Atchaya and L. Sripriyadharshini, 2020, "Intelligent Car" *Journal of Physics: Conference Series*, Volume 1804, 2020.





**Dr.P.Glaret Subin P.hD.,**  
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Google Scholar

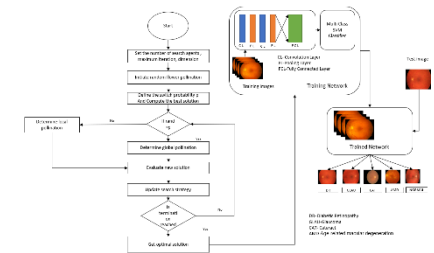
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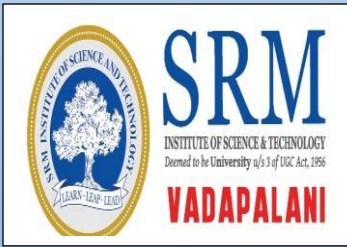
## Area of Research

➤ Digital Image Processing, Machine Learning, Deep Learning.

## Publications and Funded Project details:

- No. of publications National / International: 12
- P.Glaret subin, Dr.P.Muthukannan “Multiple Eye Disease Detection using Hybrid Adaptive Mutation Swarm Optimization and RNN” in International Journal of Advanced Computer Science and Applications, Volume 13 Issue 9, 2022,Pages 401-410.
- P.Glaret subin,Dr.P.Muthukannan “Optimized Convolution Neural Network Based Multiple Eye Disease Detection” in Computers in Biology and Medicine, Volume 146,2022,105648,ISSN 0010-4825.
- P.Glaret subin,P.Rathinakumar,” Early Detection Of Cardio Vascular Disease From The Fundus Images Of The Retina Using Convolutional Neural Network”, in European Journal of Molecular & Clinical Medicine 2020, Volume 7, Issue 8, Pages 2319-2324
- P.Glaret subin,Dr.P.Muthukannan “Automated Early Detection of Cardiovascular diseases from Retinal Fundus Images using Predefined Convolution Filters Network.” in International Journal of Control and Automation, Vol13, Issue 02,2020 pp 1379-1385.
- P.Glaret subin,Dr.P.Muthukannan “Early Detection of Diabetes from the Fundus image of the Retina using CNN and SVM” in Journal of Critical Reviews Vol7, Issue 05,2020 pp 1244-1249.





**Mrs. A. Vasuki. M.E, PhD(pursuing),**  
**Assistant Professor (Sr.G)**  
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Google Scholar ID:

<https://scholar.google.co.in/citations?user=8oSx5bYAAAAJ&hl=en&authuser=1>

### **Areas of Research:**

- Wireless Communication, Machine learning in Signal processing

### **Publications details:**

- No. of publications National / International: 12

### **Event Organized:**

- Organized 2 days' Workshop on "Cybersecurity" in Nov-2021
- Organized an Outreach program on "Electronics Project Competition" in July-2022
- Organized a Six days Faculty Development Program on "Blockchain Technology" in April-2023



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**VADAPALANI**

**Dr. T.S. Balaji PhD.,**  
**Assistant Professor (Sr.G)**  
**Department of ECE**  
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Google Scholar

<https://scholar.google.com/citations?user=0g9VwC4AAAAJ&hl=en>

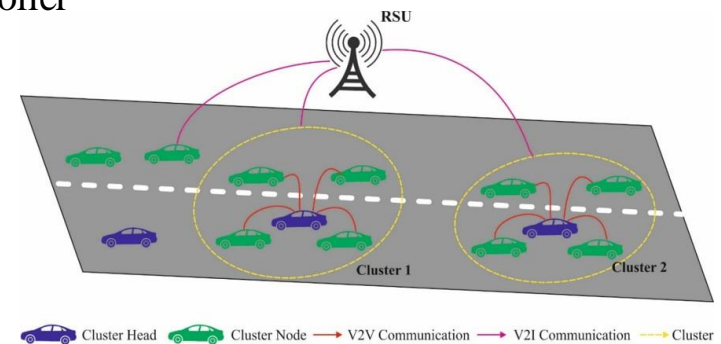


## Area of Research

➤ Vehicular Ad-Hoc Networks, Software Defined Networking Controller

### Publications details:

- No. of publications National / International: 15
- **T. S. Balaji**, S. Srinivasan, S. Prasanna Bharathi & B. Ramesh, “Fuzzy-based Secure Clustering with Routing Technique for VANETs” – Computer Systems Science and Engineering, Tech Science Press, ISSN: 0267-6192, Volume-43, Issue-01, PP.No: 291-304, March 2022. Impact Factor : 4.397
- **T. S. Balaji** & S. Srinivasan, “Networking Controller Based Real Time Traffic Prediction in Clustered Vehicular Adhoc Networks”, Intelligent Automation & Soft Computing, Tech Science Press, ISSN: 1079-8587, Volume-35, Issue-02, PP.No: 2189-2203, July 2022. Impact Factor : 3.401
- Ashit Kumar Dutta, S. Srinivasan, S. N. Kumar, **T. S. Balaji**, Won Il Lee, Gyanendra Prasad Joshi & Sung Won Kim, “Optimal Deep Learning Enabled Statistical Analysis Model for Traffic Prediction”, Computers, Materials & Continua, Tech Science Press, ISSN: 1546-2218, Volume-72, Issue-03, PP.No: 5563-5576, April 2022. Impact Factor : 3.860
- Thavavel Vaiyapuri, S. Srinivasan, Mohamed Yacin Sikkandar, **T. S. Balaji**, Seifedine Kadry, Maytham N. Meqdad & Yunyoung Nam “Intelligent Deep Learning Based Multi-Retinal Disease Diagnosis and Classification Framework”, Computers, Materials & Continua, Tech Science Press, ISSN: 1546-2218, Volume-73, Issue-03, PP.No: 5543-5557, July 2022. Impact Factor : 3.860





**Mr.A.Dinesh Babu, M.E.,M.B.A**

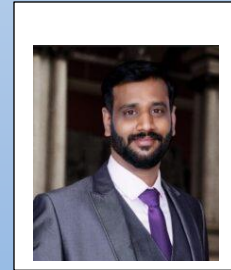
**Assistant Professor (Sr.G)**

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Google Scholar Profile: <https://scholar.google.com/citations?user=Ygyb-ZAAAAAJ&hl=en&authuser=1>



## Areas of Research

- Hardware Acceleration of Deep Learning Systems
- Low Power VLSI Design
- Stochastic Computing Methods
- Profiling of Digital Circuits
- Internet of Things

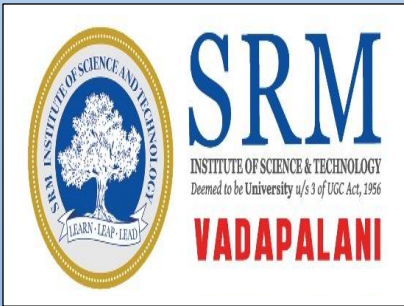
### Publications and Funded Project details:

**No. of journal publications National / International: 8**

**No. of conference publications National / International: 21**

**No. of patent filed/published: 1**





**Dr. Kavitha V P M.E.,Ph.D.,**  
**Assistant Professor (Sr.G)**  
**Department of ECE**  
**9445257427**

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### **Areas of Research**

- Internet of Things, Wireless Sensor Network, Network Security, Wireless Network.

### **Publications and Funded Project details:**

- No. of publications National / International: 2

### **Book Publication:**

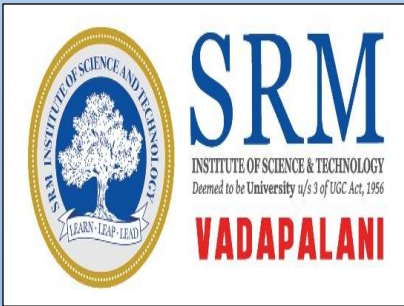
- Published a Book titled “VLSI Design” by Scholars’ Press in 2023.

### **Patent Published:**

- IoT-driven Real-Time Structural Health Monitoring and Damage Identification Using AI. Application No. 202341026223, dated 7/4/23

### **Events Orgnaized:**

- Organized a One day workshop in Matlab Programming on 1<sup>st</sup> June 2023.
- Organized a One day Seminar in Role of Cloud Computing in Adtech on 3<sup>rd</sup> Aug 2023.
- Organized a One day Seminar in Empowering Engineers: Unleashing the potential of AI & ML in Industry on 7<sup>th</sup> Aug 2023.



**V. Bhuvaneshwari M.Tech., (Ph.D)**  
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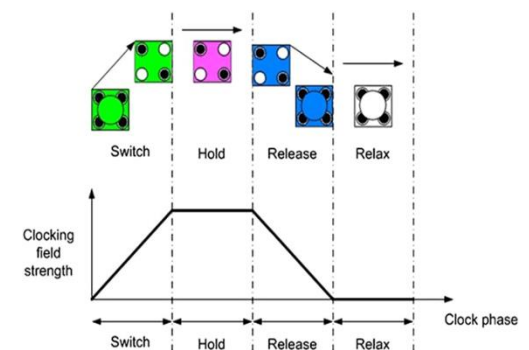
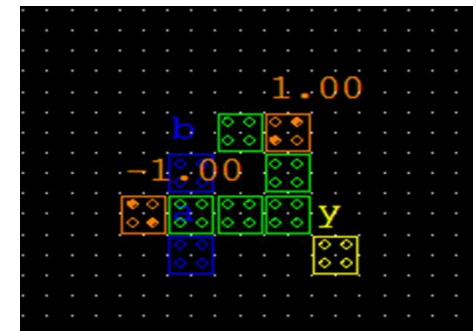
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## Areas of Research

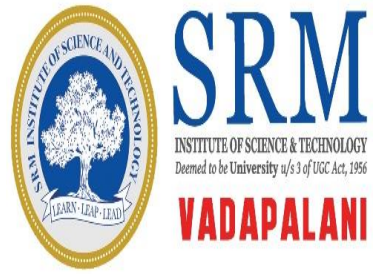
- QCA Based Combinational and Nano Router Circuit Design for Nano Communication Network.

## Publications and Patent details:

- No. of publications National / International: 08
- No. of patents published:06
- Patent Grant:01







**Mrs.V.Akila**  
**Assistant Professor (O.G)**  
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**Communication Engineering**  
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## Areas of Research

- Bio Medical Image and Signal processing

## Publications and Project details:

- PUBLISHED 10 PAPERS AND RESEARCH ARTICLES IN NATIONAL AND INTERNATIONAL JOURNALS
- CONDUCTED FACULTY DEVELOPMENT PROGRAMS in Image Processing using MATLAB
- Conducted School OutReach Programs in IoT
- Pursuing Ph.D
- Currently working in 1 research project, published 2 patent

## BIO-DATA

**NAME:** Dr.P.KABILAMANI, B.E., M.Tech., Ph.D.,

**E-mail id:** kabilamp@srmist.edu.in

**Mobile No:** 9789091674

### **WORKING EXPERIENCE:**

S.No	Name of institution	Duration		Year of Experience
		From:	To:	
1	Sakthi Mariamman Engineering College, Thandalam, Sriperumbudur	25.08.2008	28.02.2013	5 Years
2	Sakthi Mariamman Engineering College, Thandalam, Sriperumbudur	01.03.2013	10.01.2017	3 Years 4 Months
3	SRM Institute of Science and Technology, Vadapalani, Chennai.	10.03.2022	Till Date	1 Years 4 Months
Total				<b>15 years 10 Months</b>

### **RESEARCH EXPERIENCE:**

S.No	Name of institution	Duration		Year of Experience
		From:	To:	
1	SRM Institute of Science and Technology, Vadapalani, Chennai	11.01.2017	19.09.2022	5 Years 9 Months
Total				<b>5Years 9 Months</b>

### **ACADEMIC BACKGROUND:**

Qualification	Discipline/Specialization	College	Board/University	Year of Passing	Marks Obtained
Ph.D.,	Wireless Communication	SRM IST, Chennai, Tamil Nadu	SRM IST Chennai	September-2022	-



M.Tech.	Embedded System & Technology	SRM University Tamil Nadu	SRM University Chennai	2012	<b>8.4</b> <b>CGPA</b> <b>First Class</b>
B.E.,	Electronics and Instrumentation Engineering	Easwari Engineering College, Chennai	ANNA University Chennai	2007	<b>6.7%</b> <b>First class</b>

**PATENTS:**

**Title of the invention:** IoT-driven Real-Time Structural Health Monitoring and Damage Identification Using AI, Application No. PCT//:01/01/1900 201641042620A, Publication Date: 05/05/2013.

**PUBLICATIONS: INTERNATIONAL JOURNALS: 08**

**INTERNATIONAL CONFERENCE ATTENDED: 14**

**NATIONAL CONFERENCE ATTENDED: 04**

**WORKSHOPS/FDP ATTENDED: 15**

**RESEARCH COLLOQUIUM'S:03**

**RESEARCH DETAILS:**

**Title of Ph.D. Thesis:** Implementation of reconfigurable high speed architecture for long term evolution systems

**Area of specialization in Ph.D:** Wireless Communication, VLSI Signal Processing

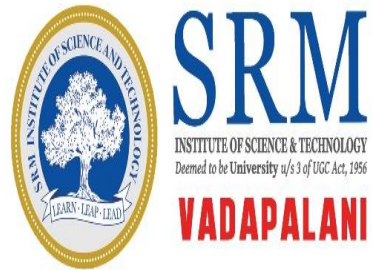
**INTERNATIONAL JOURNAL REVIEWER:**

- Reviewer in Wireless Personal Communications
- Reviewer in Mobile Networks

**NPTEL COURSE COMPLETED: 05**

**SUBJECT STAUGHT:**

- Introduction to Data Science
- Electronics & Electrical Engineering
- VLSI Design
- Communication Systems
- Microprocessor & Microcontroller
- VLSI Design
- Microwave & Optical communication



**Dr.R.Bhairavi B.Tech.,M.Tech.,Ph.D.,**  
**Assistant Professor (O.G)**  
**Department of Electronics and Communication Engineering**  
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Google Scholar Profile

<https://scholar.google.com/citations?user=1hFMVD0AAAAJ&hl=en>

## Areas of Research

- Wireless Sensor Networks
- Underwater Acoustic Sensor Networks
- Wireless Communication
- Internet of Things (IOT)
- Image Processing

## Publications:

- No. of publications National / International: 08