Name: Dr R.PRABHA	Photo

Designation:	PROFESSOR

Qualification:	B.E.M.E,Ph.D

Area of specialization:	ADHOC NETWORKS

Experience:	Industrial Experience	Teaching Experience
	NIL	28

Number of workshops / FDP attended:	Number of Workshops	Number of FDPs

Publications:	Conference		Journal	
	National	International	National	International
				-

Books / Book Chapters	Book Chapter

Patents:	National	International
		-

Professional Body Membership	➢ ISTE-LIFE MEMBERSHIP-LM50811 ➢ IETE-LIFE MEMBERSHIP-AM 501785 ➢ IEEE-SENIOR MEMBER-98094242

Staff Achievements	
	● Best Teacher Award 2020 from Technical Research Publications. ● Global Eminent Academician Award 2021 from Vij Trust. ● Best Funding project award from Sri Sairam Institute of Technology 2022.

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B. E	EEE	1996	Annamalai University	Annamalai University	65 %	First
PG	M. E	Applied Electronics	2006	Aarupadai veedu Institute of Technology	Vinayaga Mission University	62%	First
PhD			2016	Anna University	Anna University		

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
St. Peter's Engineering College ,Avadi, Chennai	Lecturer-EEE	3/06/1996	2/2/ 1999	2	8	--
Aarupadai veedu Institute of Technology, Chennai	Sr.Lecturer & Assistant Professor-EEE	2/2/ 1999	22/08/2007	8	6	0
SRM Valliammai Engineering College, Chennai	Assistant Professor (Sr.G)-ECE	23/08/2007	10/01/2015	7	4	18
Indira Gandhi College of Engineering and Technology for Women	Associate Professor-ECE	12/01/2015	24/06/ 2016	1	5	12
Sri Sai Ram Institute of Technology	Associate Professor-ECE	19/06/2017	31/05/2024	6	11	20
Sri Sai Ram Institute of Technology	Professor-ECE	01/06/2024	28/08/2025	**1**	**2**	**28**
Sri Sai Ram Engg College	Professor-ECE	Till date	28/08/2025			

	28	2	18

Workshops/Seminars attended:

1. Undergone In plant Training at BHEL Trichy, May -1995.
1. Undergone In plant Training at NLC Neyveli June – 1995.
2. Attended Workshop on "ANN & ITS Application" PSNA College of Engg, Jan-2003.
3. Attended Workshop on "Staff Development Programed" Anna University Chennai, 27th Jan 2003.
4. Attended Workshop "Embedded System" Aug' 2006.
5. Attended ISTE SRM sponsored STTP on "RF for Wireless Networks".
6. Attended workshop on "R&D Project Proposals Awareness Needs and Benefits Organized by Centre for Technology Development and Transfer" Anna University 2014.
7. AICTE-ISTE sponsored six days workshop on "Modern Pedagogy For Engineering Teachers In Making Digital India". May 21st to 26th, 2018 at Sri Sairam Institute Of Technology, Chennai, India.
8. Attended "Tech workshop on Redhat (open source) Technology & Industry Adaptation" on March 2018 at Sri Sai Ram Institute Of Technology, Chennai, India.
9. Attended Faculty Development Training Programme " Adhoc and Sensor Networks" two weeks at Loyola Institute of Technology conducted by Centre for Faculty Development from 12.11.18 to 26.11.18.
10. Attended "Internet of Things using Raspberry Pi" from 26.06.19 to 28.06.19 at Sri Sairam Institute of Technology, Chennai, India.
11. Attended ICT Academy "Creative Thinking" from 27.3.19 to 28.3.19
12. Attended ATAL FDP on "Artificial Intelligence: Concepts and Applications" from 4.12.19 to 8.12.19 at "IIITDM Kancheepuram", Chennai.
13. Attended FDP "Machine learning using Python" from 12.12.19 to 13.12.19 at Sri SaiRam Institute of Technology, Chennai, India.
14. Attended ATAL FDP on "Augumented Reality (AR)/Virtual Reality(VR) " from 16.06.20 to 20.06.20 at "National Institute of Technology" Warangal.
15. Attended AICTE sponsored one week STTP on "Recent Trends in Wireless Sensor Networks and Application"from 16.07.20 to 22.07.20 at "Kumaraguru College of Technology" Coimbatore.
16. Attended AICTE sponsored one week STTP on "Recent Trends in Wireless Sensor Networks and Application"from 3.08.20 to 08.08.20 at "MallaReddy Engineering College For Women" Secunderabad.
17. Attended ATAL FDP on "Sensor Technology"from 17.08.20 to 21.08.20 at "St.Joseph's Institute of Technology",Chennai.
18. Attended AICTE sponsored one week STTP on "IoT for Healthcare "from 07.9.20 to 12.09.20 at " Dr.Mahalingam College Of Engineering and Technology"Pollachai.
19. Attended AICTE sponsored one-week STTP on "Blockchain Application "
20. from 05.10.20 to 10.10.20 at " Saintgits College Of Engineering" Kottayam,Kerala.
21. Attended FDP "RF devices for 5G Communications & Measuring Instruments "from October 12,2020 to October 16,2020 at K.Ramakrishnan College of Technology.
22. Attended IITM HTIC MedTech Incubator 4 Weeks Women Entrepreneurship Development Program (WEDP) from 15-02-2021 to 13-03-2021

FDP/STTP Attended:

AICTE Approved NPTEL FDP

1.Ethics in Engineering Practice
2. Teaching and Learning in General Programs: TALG
3. Technical Communication for Engineers
4. Accreditation And Outcome Based Learning
5. Interpersonal Skills
6. Emotional Intelligence
7. Outcome Based Pedagogic Principles for Effective Teaching

ATAL FDPS:

1. Internet of Things (IoT) - 28.08.2020
2. Artificial Intelligence -04.09.2020
3. Artificial Intelligence - 04.01.2021
4. Cyber Security - 18.01.2021
5. Advanced Computing (Supercomputing, AI, Quantum Computing - 24.10.2024

Others

1. "Electromagnetic Theory and Transmission lines" on 25th and 26th June 2015 at Sairam Institute of Technology.
2. "Computer Networks" on 6th to 13th January 2016 at Sairam Institute of Technology.
3. "Modern Teaching and Learning Methodologies for Competency Development" on 3rd and 4th May 2017 at Jeppiar Maamallan Engineering College".
4. "Digital Image Processing, RF & Embedded System" on 20th to 22nd June 2017 at Sree Sastha Institute of Technology.
5. "Crypt Analysis & Internet Security" on 27th and 29th 2016 at Sri Sairam Institute of Technology.
6. "Teaching Excellence in Engineering & Management Curriculam" on 20th and 21st June 2016 at Sri Sairam Engineering College.
7. "Engineering & Management Teaching Strategies for Excellence" on 29th and 30th December, 2014 at Sri Sairam Engineering College.
8. "Effective Coding Skills" on 28th May 2016 at Cognizant Technology Solutions.

Conference Attended:

International Conference

- o Presented paper "ARSTP: A Reliable Sensor Transport Protocol for Wireless Sensor Network" International National Conference on "ICICT-09" in Sai Ram Engineering

College, Chennai, India.
- o Presented paper in International Conference organized by International Academy for science and technology "A Reliable Authentication between HeNB & eNB in LTE Networks".
- o Presented paper" A Survey on Methods of V2V Communication" in Prince shri Venkateswara Padmavathy Engineering College, Chennai.
- o Presented Paper "Automatic Bomb Detection and Diffusion using Electromagnetic pulse" in Jerusalem college of Engineering, Chennai .
- o Presented paper" A Novel Approach for the design of Reading Assistant Device for the Blind"in Prince shri Venkateswara Padmavathy Engineering College, Chennai.
- o Presented paper" Predicting Stock Prices using Machine Learning Techniques" ISBN: 978-1- 7281-8500-2, 2021, ICICT Proceedings, Comibatore, India.
- o Presented paper" Vivoice-Digital Assistant for Visually Challenged People" In ICMMCIT 2021,10-12 feb The Gandhigram Rural Institute, Gandhigram, Dindgul, Tamilnadu
- o Presented paper" Improved Cluster Head selection for Data Aggregation in Sensor Networks" on 19-20th March ICACCS 2021 at Sri Eshwar College of Engineering,
- o Coimbatore, Tamilnadu.

1	Integrating Bioengineering and Machine Learning: A Multi-Algorithm Approach to Enhance Agricultural Sustainability and Resource Efficiency	Conference Paper -SCOPUS	BIO Web of Conferences	2025
2	Quantum AI: A Cognitive Machine Learning Technique based on Nurturing Food Security Sustainability Predictive Analysis for Life Science-Bioengineering in Healthcare	Conference Paper -SCOPUS	BIO Web of Conferences	2025
3	Generative AI in agri: Sustainability in smart precision farming yield prediction mapping system based on GIS using deep learning and GPS	Conference Paper -SCOPUS	Elsiver- Procedia Computer Science	2025
4	Quantum cryptography-enhanced cyber security intrusion detection system apts attacks in blockchain	Conference Paper -SCOPUS	IGI Global Scientific Publishing	2025
5	Predictive Analysis-Based AI-Driven Data Security Authentication and Authorization for Medical Warehousing Mechanisms	Conference Paper -SCOPUS	IGI Global Scientific Publishing	2025
6	Advanced Mathematical Application of Cryptographic Protocols in Distributed Ledger Technologies and Digital Currency Systems	Conference Paper -SCOPUS	SSRN-Elsiver	2024
7	Artificial Intelligence: Advanced Mathematical Constructs and Theoretical Framework in Machine Learning and Deep Learning Algorithms	Conference Paper -SCOPUS	SSRN-Elsiver	2024
8	A novel predictive analysis and classification of land subsidence vulnerability mapping based on GIS using hybrid optimized machine learning techniques and computer vision	Conference Paper -SCOPUS	Procedia Computer Science-Elsiver	2024
9	A novel computational rough set based feature extraction for heart disease analysis	Conference Paper -SCOPUS	Conference Paper	2021

National Conference

1. Paper "Advanced Seamless Vertical Handoff Architecture for WiFi and Wimax Heterogeneous Network with QoS Guarantees" National Conference on "CARCN-2010" in Satyabhama University, Chennai, India.
2. Paper "Advanced Seamless Vertical Handoff Architecture For WiFi and Wimax Heterogeneous Network with Qos Guarantees" National Conference on "EECS- 2010" in GKM Engineering College , Chennai, India.
3. Paper "ARSTP: A Reliable Sensor Transport Protocol for Wireless Sensor Network" National Conference On "EECS-2010" and won best paper award in GKM Engineering College.
4. Presented paper in National Conference on Microwave & Millimeter wave communication "A Reliable Authentication between HeNB & eNB in LTE Networks. ISBN No: 978-81-926837-0-6.
5. Paper "Smart Log Periodic Dipole Array Antenna (3.1ghz-11.6ghz) For Uwb Applications" National Conference on "ARICE'2K18" in Sri Sai Ram Institute of Technology, Chennai, India.
6. Paper "A Novel Approach To Vehicle Authentication And Monitoring System" National Conference on "ARICE'2K18" at Karpagam Institute of Technology, Coimbatore, India.
7. Presented paper" Special Glasses for Special People using Face Recognizing & AI" In NCADIST-2021,30-1-2021 Karpaga Vinayaga College Of Engineering And Technology, Tamilnadu.
8. Presented paper" A Mobile app which breaks the Queue" In NCADIST-2021,30-1-2021 Karpaga Vinayaga College of Engineering And Technology, Tamilnadu.

Patent:

S. No.	Application Number	Title/Remarks	Status
1.	201941030470	Smart Walking Aid for Visually Challenged Using GPS	Published
2.	201941054595	I oT Based Train Monitoring System Through Data Acquisition Techniques	Published
3.	2020103056	Voice Based Outdoor Navigation and Location Announcement Guidance System for Blind	Granted
4.	202141019985	An Automated Number Plate Recognition System Using Image Processing	Published
5.	347557001	A battery powered self-adjustable tool	Published
6.	352007-001	Handy device for face identification	Granted
7.	367883-001	Pedal pump	Granted
8.	367894-001	Automatic street light	Granted
9.	370382-001	IoT Enabled Service Robot for Isolation Ward	Published

10.	202441042689	Data-Driven Strategies for Optimizing Student Retention and Academic Outcomes Based On Nep Policies	Published
11.	202541032912	Automated Garbage Collector Robot	Published
12.	202541032916	Reconfigurable MIMO Antenna for Vehicular Communications	Published

Journal Publications:

Sno	Title	SCI/SCOPUS/BOOK CHAPTER/IEEE/ UGC Refered Journal	Publisher	Year
1	Spectrum Sensing in Cooperative Cognitive Radio Networks Utilizing Binarized Simplicial Convolutional Neural Network Performance in Dynamic Environments	SCI	Wiley-International Journal of Communication Systems	2026
2	A revolutionizing multimedia game as a service (GaaS) language education: Enhanced Multi- Access edge computing and mixed reality for computer vision	SCI	Elsevier-Entertainment Computing	2025
3	Energy efficient multipath routing in IoT- wireless sensor network via hybrid optimization and deep learning-based energy prediction	SCI	Network: Computation in Neural Systems- Taylor & Francis	2025
4	Cell Zooming With Energy-Efficient Offloading in Cellular Network: An Optimization-Assisted Model	SCI	International Journal of Communication Systems-Wiley	2025
5	Hybrid Multipath Routing Cluster head prediction based on SDN-enabled IoT and Heterogeneous context-aware graph convolution network	SCI	Peer-to-Peer Networking and Applications- Springer	2024
6	Cluster head based secure routing using optimized dual-discriminator conditional generative adversarial network in wireless ad- hoc networks	SCI	Peer-to-Peer Networking and Applications- Springer	2023

7	Efficient Re-clustering with Novel Fuzzy Based Grey Wolf Optimization for Hotspot Issue Mitigation and Network Lifetime Enhancement.	SCI	Adhoc & Sensor Wireless Networks-	2023
8	Region Centric GL Feature Approximation Based Secure Routing for Improved QoS in MANET	SCI	Intelligent Automation & Soft Computing	2023
9	Enhance Software-Defined Network Security with IoT for Strengthen the Encryption of Information Access Control	SCI	Computational Intelligence and Neuroscience	2022
10	Gain enhancement by utilizing hexagonal reflector based optimized textile antenna	SCI	J Ambient Intell Human Comput	2021
11	An improved multipath MANET routing using link estimation and swarm intelligence	SCI	EURASIP Journal on Wireless Communications and Networking	2015

Books / Book Chapters:
- Published book chapter: 9 in Blockchain Technology, Emerging Technologies in Engineering Research, Technical research publications
   ISBN:978-93-5419-211-1(online)
- Published book Data Communications and Networking, Jayalakshmi   Publications ISBN: 978-93-90203-10-9.
- Published book Artificial Intelligence, Charulatha Publications
   ISBN: 13 978-93-5577-295-4.

1	Revolutionizing Multimodal Language Translation: Generative AI Empowered LLM and NLP Solutions for Seamless Voice, Text, and Communication Integration	Book Chapter	Springer Nature	2025
2	An Enhanced Sustainable Mobility as a Service Based on 5G Network for Human-Centric Mobile Network in Smart City	Book Chapter	Springer Nature	2025
3	Network Routing and Its Real-Time Practice in Broadband Wireless Networks	Book Chapter	Springer Nature	2025
4	An Optimized Metaw analysis Secure Data managenet in Internet of Medical things (IoMT) Smart Healthcare System on Blokchain and Multi-access Edge Computing	Book Chapter	Springer Nature	2025
5	A Block Chain-Enabled Novel Intelligent System Analysis for Medical Image Processing of Kidney Stone Prediction Using Deep Learning Techniques and Augmented Reality	Book Chapter	Springer Nature	2025
6	Analysis of antenna for biomedical applications	Book Chapter	CRC Press	2024

7	A Novel Meta-analysis and classification of Herbal medicinal plant raw material for food consimption using Hybrid Deep Learning Techniques Based on Augmented Reality in Computer	Book Chapter	Springer Nature	2024
8	Secure Private Data Storage and File Sharing Using Homomorphic and Hybrid Hash-Based Cryptographic Technique in Cloud	Book Chapter	Springer Nature	2024
9	A Novel Smart Facial Features for Real-Time Motorists Sleepiness Prediction and Alerting System Using Hybrid Deep Convolutional Neural Network in Computer Vision	Book Chapter	Springer Nature	2024
10	A novel meta-analysis and classification of herbal medicinal plant raw materials for food consumption prediction using hybrid deep learning techniques based on augmented …	Book Chapter	Springer Nature	2024
11	A Novel Analysis and Classification of Pressure Ulcer Prediction for Coma Patients in ICU Using Deep Learning Techniques	Book Chapter	Springer Nature	2023
12	Broadband Wireless Network Era in Wireless Communication–Routing Theory and Practices	Book Chapter	Springer Nature	2023
13	A Novel Intelligence System for Hybrid Crop Suitable Landform Prediction Using Machine Learning Techniques and IoT	Book Chapter	Springer Nature	2023
14	Simulation on Natural Fire Disaster Accident Evacuation Using Augmented Virtual Reality	Book Chapter	Springer Nature	2023
15	An intelligent system for plant disease diagnosis and analysis based on deep learning and augmented reality	Book Chapter	Springer Nature	2023
16	High-Performance Intelligent System for Real-Time Medical Image Using Deep Learning and Augmented Reality	Book Chapter	Springer Nature	2023
17	An empirical analysis and challenging era of blockchain in green society	Book Chapter	Springer Nature	2022
18	A comparative study of SVM, CNN, and DCNN algorithms for emotion recognition and detection	Book Chapter	Springer Nature	2022

ON - LINE COURSES: NPTEL Courses and COURSERA Courses.
NPTEL COURSES

1. Received NPTEL Elite Certificate and 4-week FDP Certificate for the course "Outcome Based Pedagogic Principles for Effective Teaching"
2. Received NPTEL Elite Certificate and 4-week FDP Certificate for the course "Stress Management".
3. Received NPTEL Certificate and 12-week FDP Certificate for the course "Block Chain Architecture Design and Use Cases".
4. Received NPTEL Certificate and 12-week FDP Certificate for the course for the

Course "Introduction to Internet of Things".

5. Received NPTEL Elite Certificate and 12-week FDP Certificate for the course for the   Course "Learning Analytics Tools".
6. Received NPTEL Certificate and 12-week FDP Certificate for the course for the Course "Communication Networks".
7. Received NPTEL Certificate and 12-week FDP Certificate for the course for the Course "Signals and Systems".
8. Received NPTEL Certificate and 4-week FDP Certificate for the course for the Course "Python for Data Science".
9. Received NPTEL Elite Certificate and 8-week FDP Certificate for the course for the Course "Introduction to Machine Learning".
10. Received NPTEL Certificate and 8-week FDP Certificate for the course for the "Course Accreditation and Outcome Based Learning ".

NITTTR Courses: All eight modules completed

Professional Membership: IEEE, ISTE, IETE