

BIO DATA



Name : Mr.D.Gopinath
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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Electronics and Communication Engineering	Shri Andal Alagar College of Engineering, Chengalpat, Anna University, Chennai	2010
M.E	VLSI Design	Shri Venkateswara Institute of Science & Technology, Thiruvallur, Anna University, Chennai	2014
(Ph.D.)	Electronics and Communication Engineering	Anna University, Chennai	-

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1.	Assistant Professor	Renganayagi Varatharaj College of Engineering, Sattur	26.06.2014	13.05.2016

3. Research Interest

Antenna Design and Analysis, Transmission Lines & RF Circuits, Artificial Intelligence.

4 Publications

4.1 JOURNAL PUBLICATIONS

1. D.Gopinath, S.Vijayakumar, R.Ramalakshmi, M.Jeevalingesh & D.Janarthanan, (2020), Implementation of Internal and External Border Gateway Protocol for Efficient Traffic Flow

using MPLS L3 VPN in Green Network, *Journal of Green Engineering (JGE)*, vol 10, Issue 9, Pages 5478-5486.

2. D. Gopinath, S. Vijayakumar, Jai Harish; "Analyze of facial expression and hand gestures using deep learning", *AIP Conference Proceedings* 31 March 2022; 2444 (1): 030001. <https://doi.org/10.1063/5.0078347>.
3. R. Deiva Nayagam and D. Selvathi and R. Geeta and D. Gopinath and G. Sivakumar, "Mobile Application based Indoor Positioning and Navigational System using Dijkstra's Algorithm", *Journal of Physics: Conference Series*, 2023; Volume;2466, Pages: 012007. (Scopus Indexed)
4. D. Gopinath, R. D. Nayagam, G. Sivakumar, S. Karthik and P. D. Chakravarthi, "Intelligent Intravenous Syringe Pump," *2023 International Conference on Intelligent Systems for Communication, IoT and Security (ICISCOIS)*, Coimbatore, India, 2023, pp. 230-234, doi: 10.1109/ICISCOIS56541.2023.10100431. (IEEE Xplore-Scopus Indexed).
5. Gopinath D, Deiva Nayagam R, Arun Raj V, Davidson Kamaladhas M, Sanmuga Priya M, Karthik S, Detection of Helmet and License Plate Using Machine Learning. *International Journal of Intelligent Systems and Applications in Engineering*, 12 (3), 2024, pp.698-705.
6. Gopinath, D., Marichamy, P. On the design and analysis of multi-band micro-strip patch antenna for wireless body area network applications. *J Wireless Com Network* 2025, 13 (2025). <https://doi.org/10.1186/s13638-025-02442-3>. (SCI Indexed).
7. R. Vignesh, G. Karthikeyan, U. Rujeyanthi, D. Gopinath, S. Manikandan, S. Karthik, "IoT-Enabled Smart Nebulizer with Adaptive Flow Control for Efficient Drug Delivery," *2025 2nd International Conference on Trends in Engineering Systems and Technologies (ICTEST)*, Ernakulam, India, 2025, pp. 1-6, <https://doi.org/10.1109/ICTEST64710.2025.11042518>. (IEEE Xplore-Scopus Indexed).
8. Gopinath D, Durga Devi M, Esakki P, Kaladevi S, "Metamaterial Based Matching Structures with L-Band Antennas for Satellite Applications," *2026 IEEE Madhya Pradesh Section Conference (MPCON)*, Madhya Pradesh, India, 2026.

CONFERENCE PUBLICATIONS

1. Gopinath D, Harri Ram G, Muthukrishnan P, Raghul R, (2017), Automatic movable platform for railway track crossing-A review, *National Conference on Innovative Technologies in Computer and Communication (ITC²k17)*, Velammal College of Engineering and Technology, Madurai.
2. Gopinath D, Padma Gokila S E, Shenbagavalli M, Umamaheswari P, (2018), Wireless Health Monitoring System using Mobile phone, *National Conference on Innovations in Communication Technology for Social Development (ICTSD 2018)*, Ramco Institute of Technology, Rajapalayam.
3. Gopinath D, Ashik abdullah I, Jothiram karthick R, Mugesh kumar B, (2018), Configurable Indoor Air Quality Monitoring System, *National Conference on Innovations in Communication Technology for Social Development (ICTSD 2018)*, Ramco Institute of Technology, Rajapalayam.
4. Gopinath D, Dhanalakshmi C, Eniya S, Lakshmi Priya D, (2019), Tetra Band Circular Microstrip antenna with Fractal slots for Multiband applications, *National conference on Networks, Intelligence and Computing Systems*, SNS College of technology, Coimbatore.
5. Gopinath D, Punitha Lakshmi V, Ragha S, Rajam B, (2019), Implementing Hub and Spoke Topologies for the MPLS VPN Customers with Customers using OSPF for their sites, *National Conference on Advances in Computing Technologies NCACT 2019*, Hindusthan Institute of Technology, Coimbatore.

6. D.Gopinath, M.Saraswathi, K.Vignesh Priya, S.Vivitha Guru, (2020), Design of Multiband Rectangular Patch Antenna for 5G Applications, *7th National Conference on Advanced Computing Technologies (NCACT-2020)*, Velammal Engineering College, Chennai.
7. D.Gopinath, Jeeva Linggish M, Janarathanan D, Geethai Kannan S, (2020), Implementation of internal and external border using MPLS L3 VPN gateway protocol, *International Web Conference on Smart Engineering Technologies-2020(IWCSET-2020)*, Ramco Institute of Technology, Rajapalayam.
8. D.Gopinath, Arunkumar S, Alex Pandian K, Gowtham V, (2021), Smart Syringe Infusion Pump, *National e-Conference on "Recent Trends in Electronics, VLSI, Embedded Systems, Communication and Networking*, Dr. Sivanthi Aditanar College of Engineering, Tiruchendur.
9. D.Gopinath, S.Vijayakumar, S. Jai Harish, (2021), Analyze of Facial Expression and Hand gestures using Deep Learning, *AICTE Sponsored National Online Conference on " Data Science and Intelligent Information Technology"*, National Engineering College, Kovilpatti.
10. Gopinath D, Dhitchanaa R, Keerthana S, presented "Design and Analysis of Circular Cross Sectional T shaped Patch antenna for Wireless Body Area Networks", in *International Conference on Advancements on Management, Entrepreneurship, Sciences and Engineering (ICAMESE-2022)* from 28.05.2022 to 29.05.2022 at I Business Institute Greater Noida, UP & Global Conference Hub, Coimbatore.
11. D.Gopinath, K.Dharshini, V.S.Gaayatri presented a paper titled on "Design and Analysis of Multi-Band Micro-Strip Patch Antenna for 5G Applications" in *The International Conference on Newer Engineering Concepts and Technology (ICONNECT-2K23)* at K.Ramakrishnan College of Technology, trichy on 27.04.2023.
12. D.Gopinath, K.Sujitha, A.Sharon Tresha, presented a paper titled on "Detection of Helmet and License Plate using Machine Learning", in *ISTE sponsored 9th International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'23)* organized by Karpagam Institute of Technology, Coimbatore, 05-06 May, 2023.
13. D.Gopinath, S.Vairaprakash, R.Deiva Nayagam, S.Karthik, K.Manoj Prabhakaran, R.Harish, presented a paper titled on "Design & Analysis of Miniaturized Microstrip Patch Antenna using Substrate Integrated Waveguide", in *4th International Conference on "Recent trends in Engineering Technology and Management– 2024"* (ICRETM - 2024) organized by Suguna College of Engineering, Coimbatore on 06.05.2024.
14. D. Gopinath, Sivaranjini M, R. Deiva Nayagam, Priyadharshni K, presented a paper titled on "Performance Enhancement of Micro-Strip Patch Antenna using Metamaterial Approach", in *4th International Conference on "Recent trends in Engineering Technology and Management– 2024"* (ICRETM - 2024) organized by Suguna College of Engineering, Coimbatore on 06.05.2024.
15. R.Deiva Nayagam, D.Gopinath, V.Maha Vidhya, B.Jeyarudhra, presented a paper titled on "A Polyamide based Flexible Antenna for Wearable Applications" in *4th International Conference on "Recent trends in Engineering Technology and Management– 2024"* (ICRETM - 2024) organized by Suguna College of Engineering, Coimbatore on 06.05.2024.
16. D.Gopinath, M.Karthikeyan, M.R.A.P.Satheesh Kumar, G.Sureshkumar, presented a paper titled on "A Design of Self-Diplexer Microstrip Patch Antenna", in *International Conference on Smart Technologies in Electronics & Photonic Systems (ICSTEPS-2025)* organized by Ramco Institute of Technology, Rajapalayam on 04.04.2025.
17. D.Gopinath, G.Kumutha, Dr.C.Arunachalaperumal, S.Karthik, A. Adheeba Banu, M.Janani, presented a paper titled on "Respiratory Rate Estimation using Multivariate Health Data and Machine Learning Algorithms", in *International Conference on Smart Technologies in Electronics & Photonic Systems (ICSTEPS-2025)* organized by Ramco Institute of Technology, Rajapalayam on 04.04.2025.

4.2 Book/Book chapter publications

NIL

5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	-	-	-	-	-

6 Ph.D. guidance

Sl.No	Scholar name	University	Topic	Status
1.	-	-	-	-

7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title f the event	Organized by	Date	
			From	From
1.	RF Circuits and Antenna Design	Mepco Schlenk Engineering College	19.12.2016	23.12.2016
2.	FDP on RF and Microwave Engineering	Ramco Institute of Technology	12.06.2017	16.06.2017
3.	AICTE sponsored FDP on Human Values and Professional Ethics	Ramco Institute of Technology	30.10.2017	12.11.2017
4.	Electronic System Design and Manufacturing (ESDM)& testing using CADENCE ORCAD	Entuple technologies Pvt.Ltd.	27.11.2017	01.12.2017
5.	Writing Research Papers, Citation Analysis, Plagiarism, Getting Patent & Copyright	Ramco Institute of Technology	29.06.2018	30.06.2018
6.	Anna University approved FDTP on Electromagnetic Fields	Ramco Institute of Technology	03.12.2018	15.12.2018
7.	Workshop on “Analog Discovery Kit”	Ramco Institute of Technology	22.06.2019	-
8.	AICTE sponsored FDP on “Smart Perspectives of IoT on 5G Communication- Practical Approach”	Panimalar Engineering College, Chennai	08.11.2019	21.11.2019
9.	FDP on “Latest Wireless and Computing Technologies”	NITTTR Chandigarh	14.04.2020	18.04.2020
10.	STC on “Low Power VLSI Design”	NITTTR Chandigarh	20.04.2020	24.04.2020

Sl.No	Title f the event	Organized by	Date	
			From	From
11.	STC on “Image and Embedded Processing”	NITTTR Chandigarh	27.04.2020	01.05.2020
12.	Workshop on “Aspects of Outcome Based Education and Use of Software”	Sri Venkateswara College of Engineering, Chennai	06.08.2020	08.08.2020
13.	AICTE Online Workshop on “Incorporating Universal Human Values in Education”	AICTE, Delhi	19.10.2020	23.10.2020
14.	FDP on “Flexible And Wearable Antennas: Recent Advancements, Fabrication Techniques and Applications”	National Institute Of Technical Teachers Training And Research, Chandigarh	12.10.2020	16.10.2020
15.	FDP on “Advanced Communication Engineering”	Bharati Vidyapeeth College Of Engineering, Belapur, Navi Mumbai	07.12.2020	11.12.2020
16.	AICTE sponsored ATAL online FDP on “Wearable devices & Antenna Technologies for IoT, Mobile & Telemedicine applications”	Saveetha School of Engineering, Chennai	05.07.2021	09.07.2021
17.	FDP on “Enabling the professional development of faculty on IR 4.0 Technology (AI/ML)”	Ramco Institute of Technology, Rajapalayam	24.01.2022	29.01.2022
18.	AICTE Workshop on "UHV Refresher 1 Part 1"	AICTE	21.02.2022	25.02.2022
19.	RuTAG Proposal Writing Workshop	IITM PALS	02.03.2022	03.03.2022
20.	FDP on “Electromagnetic Waves in Guided and Wireless Media”	NPTEL-AICTE	01.01.2023	31.03.2023
21.	Workshop on “Antenna Simulation Testing and Evaluation Workshop-(ASTEWS 2024)”	IEEE AP/MTT Joint Chapter, Christ University, Bangalore	18.07.2024	20.07.2024
22.	Workshop on “Exploring AI Tools for Effective Academics”	Ramco Institute of Technology, Rajapalayam	29.07.2024	-
23.	ATAL FDP on “Recent Development in RF and Antenna Design for Various Applications”	Government Engineering College, Rajkot	27.01.2025	01.02.2025

8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Value Added Course on VLSI Design using Cadence Tool	Ramco Institute of Technology, Rajapalayam	04.12.2017	08.12.2017
2.	National Conference on Innovations in Communication Technology for Social Development (ICTSD2018) – Coordinator.	Ramco Institute of Technology, Rajapalayam	23.03.2018	-
3.	Value Added Course on SQL	Ramco Institute of Technology	10.12.2018	14.12.2018
4.	Value Added Course on Arduino	Ramco Institute of Technology	08.06.2018	12.06.2018
5.	Value Added Course on Internet of Things using Broadcom BCM2837	Ramco Institute of Technology	27.07.2019	29.09.2019
6.	Guest lecture on “Microwave Engineering for IoT”	Ramco Institute of Technology	20.02.2020	-
7.	Workshop on “Life Ahead Covid-19 with Blissful Electronics”	Ramco Institute of Technology	20.05.2020	22.05.2020
8.	Webinar on “Hardware Development Life Cycle”	Ramco Institute of Technology	30.05.2020	-
9.	International Web Conference on Smart Engineering Technologies-2020 (IWCSET-2020)	Ramco Institute of Technology	26.6.2020	27.06.2020
10.	National Web Conference on Challenges and Innovation in Engineering and Technology – 2021- (NWCCIET’21)	Ramco Institute of Technology	19.3.2021	20.03.2021
11.	Workshop on “Online Circuit Simulator”	Ramco Institute of Technology	07.06.2021	09.06.2021
12.	Guest lecture on “Advances in Antenna Design for Biomedical Applications”	Ramco Institute of Technology	29.10.2021	-
13.	Guest lecture on “Out of the Box thinking”	Ramco Institute of Technology	03.09.2022	-
14.	Guest Lecture on “Project based Learning: Learn through innovation”	Ramco Institute of Technology	27.04.2023	-
15.	International Conference On Smart Technologies in Electronics & Photonic Systems (ICSTEPS 2025)	Ramco Institute of Technology	03.04.2025	04.04.2025

9. Online Courses

Sl.No	Course title	University	Date
1.	MITx - 6.002.1x: Circuits and Electronics 1: Basic Circuit Analysis	Massachusetts Institute of Technology, USA	09.01.2017
2.	MITx - 6.002.2x: Circuits and Electronics 2: Amplification, Speed and Delay	Massachusetts Institute of Technology, USA	05.05.2017
3.	MITx - 18.01.1x: Calculus 1A: Differentiation	Massachusetts Institute of Technology, USA	15.09.2017
4.	MITx - 18.01.2x: Calculus 1B: Integration	Massachusetts Institute of Technology, USA	09.03.2018
5.	MATLAB Onramp	MathWorks	22.11.2018
6.	MITx - 18.03.Fx: Differential Equations: Fourier series and Partial Differential Equations	Massachusetts Institute of Technology, USA	21.12.2018
7.	MITx - 18.01.3x: Calculus 1C: Coordinate Systems & Infinite Series	Massachusetts Institute of Technology, USA	12.05.2019
8.	MITx - 6.002.2x: Circuits and Electronics 3: Applications	Massachusetts Institute of Technology, USA	04.06.2019
9.	Introduction to Differential Equations	Massachusetts Institute of Technology	26.12.2019
10.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	24.6.2020
11.	Introduction to Electronics	Georgia Institute of Technology	10.07.2020
12.	Wireless Communications for Everybody	YONSEI University	15.07.2020
13.	Machine Learning with Python: A Practical Introduction	IBM	23.08.2020
14.	Transfer Functions and the Laplace Transform	Massachusetts Institute of Technology	01.09.2020
15.	Probability - The Science of Uncertainty and Data	Massachusetts Institute of Technology	25.12.2020
16.	Introduction to Cybersecurity	CISCO	06.02.2021
17.	Online Teaching Course	IUCEE	30.09.2020
18.	Mathematics for Machine Learning: Linear Algebra	Imperial College, London	23.12.2021
19.	Feko 2020 for Electromagnetic Simulation Fundamental Examination course	ALTAIR	13.04.2022
20.	IUCEE International Engineering Educators Certification Program	IUCEE	25.12.2022
21.	Electromagnetic Waves in Guided and Wireless Media	NPTEL-AICTE	31.03.2023
22.	Google Data Analytics	Google	06.06.2023
23.	IoT & Electronics Course	Infosys Springboard	22.10.2024

Sl.No	Course title	University	Date
24.	Basics of Python	Infosys Springboard	17.12.2024
25.	Introduction to Robotic Process Automation	Infosys Springboard	20.12.2024
26.	Machine Learning Foundation Certification	Infosys Springboard	26.12.2024

10. Patents filed:

1. Mr.L.K.Balaji Vignesh, Dr.S.Periyanayagi, Dr.S.Vairaprakash, Mr.D.Gopinath, R.Pradeep, P.Praveen, R.Praveen, M.Sankar, Mobile App for Health Monitoring and Surveillance System, published in Patent Journal on 10.12.2021, Page no: 60149, Application No -202141056086.
2. Dr.S.Vairaprakash,Dr.C.Arunachalaperumal,D.Gopinath,G.Sivakumar filed patent in the title "Landmine Detection robotic vehicle with GPS positioning" published in Patent Journal on 13.03.2026, Page no: 60149. Application number :202641030130

11. Membership in Professional societies: ISTE-LM 114761

12. Awards, Recognition & Achievements

Achievements

Received **Certificate of Appreciation** Award for the Academic Year 2017-18 (Odd) for producing centum percentage result in Transmission Lines and Waveguides during Fifth college day celebration at Ramco Institute of Technology.

Received **Certificate of Appreciation** Award for the Academic Year 2017-18 (Odd) for producing centum percentage result in Optoelectronic Devices during Fifth college day celebration at Ramco Institute of Technology.

Received **Certificate of Appreciation** Award for the Academic Year 2017-18 (Even) for producing centum percentage result in Wireless Communication during Sixth college day celebration at Ramco Institute of Technology.

Designed Printed Monopole Antenna Design in ALTAIR CAD-Feko tool and Won I prize in the ALTAIR National Level Antenna Design Optimization Contest in 2022.

Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)

- ❖ Class Advisor/Mentor
- ❖ IPT/IV/Internship In-charge
- ❖ Advanced Communication Laboratory In-charge
- ❖ ISO Internal Auditor
- ❖ IE(I) Faculty-Incharge
- ❖ NBA Criteria-2 & 9-Coordinator