



G. Idayachandran

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Professional Objective:

My professional ambitions are to possess a rewarding teaching career, putting into practice my technical knowledge, work and research experience.

Career profile:

Educational qualification:

Ph.D : Electronics Engineering/ Pondicherry University/ 2017
M.Tech : Electronics and Communication Engineering/Pondicherry University/ 2003
B.E : Electronics and Communication Engineering / Bharathidasan University/ 2001

Work experience: (starting from present position)

S.No	Employer	Designation	Period of Service	Nature of Work
1	Manakula Vinayagar Institute of Technology, Puducherry	Assistant Professor	04-07-2016 to till date	Teaching, Mentoring
2	Sri Manakula Vinayagar Engineering College, Puducherry	Assistant Professor	04-06-2012 to 15-07-2013	Teaching, Mentoring
3	E.S.College of Engineering and Technology, Villupuram	Assistant Professor	03-04-2010 to 28-05-2012	Teaching, Mentoring
4	Wipro Technologies, Bangalore	Module Leader	16-04-2004 to 31-03-2009	Design and Testing of Telecom Hardware boards
5	Sri Muthukumaran Institute of Technology, Chennai	Lecturer	10-03-2003 to 31-01-2004	Teaching, Mentoring

Teaching Activities: (Subjects Taught)

- (i) **Under Graduate :** Transmission lines and Waveguides, Antennas and Wave Propagation, VLSI Design, Digital Signal Processing, Digital image processing, Communication systems, Information theory and coding, Medical Electronics, Electronic Devices
- (ii) **Post Graduate :** Radiating Systems, Advanced Digital Communication
- (iii) **Laboratories handled:** Digital Signal Processing, Network and Transmission lines, Communication Engineering

Consultancy and Sponsored Research activities : -

Name of the Scheme	Project Title	Duration	Amount Sanctioned	Status Completed/* Ongoing

Major tasks handled:

1. R&D coordinator
2. Project Coordinator
3. Student Mentor

Paper Publications / Presentation: (Refer Annexure)

	Published	Accepted	Communicated	Total
International Journal	9	-	-	9
National Journal	-	-	-	-
International Conference	5	-	-	5
National Conference	-	-	-	-

FDP/STTP/Workshops attended:

- Five day FDP on “Embedded IoT and IoE” conducted by Sri Manakula Vinayagar Institute of Technology, Puducherry
- Two days national seminar on “Advanced Technology in Health Care” – ICMR

- sponsored, conducted by Sri Manakula Vinayagar Institute of Technology, Puducherry
- Two day national level workshop on “RF Design using ANSYS HF Package” conducted by Kongu Engineering College, Perundurai, Erode
 - Three day workshop on “Electromagnetics” organized by IEEE Antennas and Propagation Society Madras chapter in association with the Department of Electronics and Communication Engineering, SSN College of Engineering, Kalavakkam, Chennai.
 - Two day AICTE sponsored National Seminar on “Recent researches in Bio-inspired computing application in Electrical Engineering application” conducted by CK college of Engineering and technology, Cuddalore
 - One day workshop on “Reconfigurable computing technology” conducted by Anna University, Chennai
 - Five day FDP on Neural Computing conducted by MIT, Anna University, Chennai.

Reviewer for the journals:

Wireless personal communication (springer), Microsystem Technologies (springer), Journal of The Institution of Engineers (India): Series B (springer), Advanced Electromagnetics, Applied Computational Electromagnetics Society Journal.

Research guidance: -

Project Guidance:

UG Projects : 5

Guest Lectures delivered: -

Professional Membership:

IEEE member since 2013
IEICE member since 2013

Publications:

Journals:

1. Idayachandran Govindanarayanan and Nakkeeran Rangaswamy, "Unidirectional Magneto-electric Dipole Antenna for Base Station: A Review," *Journal of The Institution of Engineers (India): Series B (Springer)*, vol. 99, pp. 211-220, April 2018. ISSN: 2250-2114. (**Scopus indexed**)
2. Idayachandran Govindanarayanan and Nakkeeran Rangaswamy, "A Broadband Stepped Monopole Antenna with Loop Ground," *Wireless Personal Communications (Springer)*, vol. 96, no.3, pp. 4251-4261, Oct. 2017. ISSN: 0929-6212. (**SCIE, Impact factor: 0.701**)
3. Idayachandran Govindanarayanan and Nakeeran Rangaswamy, "Defected ground magneto-electric dipole with trivial back radiation", *Progress In Electromagnetic Research C*, vol. 67, pp. 165-172, September 2016. ISSN: 1937-8718. (**Scopus indexed**)
4. G. Idayachandran and R. Nakkeeran, "Compact magneto-electric dipole antenna for LTE femtocell base stations," *Electronics Letters (IET)*, vol. 52, no. 8, pp. 574-576, Apr. 2016. ISSN: 1350-911X. (**SCI, Impact factor: 0.93**)
5. Idayachandran Govindanarayanan, Nakkeeran Rangaswamy and Rajesh Anbazhagan, "Design and analysis of broadband magneto-electric dipole antenna for LTE femtocell base stations," *Journal of Computational Electronics (Springer)*, vol. 15, no. 1, pp. 200-209, Mar. 2016. ISSN: 1569-8025. (**SCIE, Impact factor: 1.52**)
6. Idayachandran Govindanarayanan and Nakkeeran Rangaswamy, "Asymmetric folded dipole antenna with high front-to-back ratio for LTE base stations," *IEEE Antennas and Wireless Propagation Letters*, vol. 15, pp. 869-872, 2016. ISSN: 1536-1225. (**SCIE, Impact factor: 1.579**)
7. Idayachandran Govindanarayanan and Nakkeeran Rangaswamy, "Broadband Planar Circular Loop Antenna," *International Journal of Microwave and Optical Technology*, vol. 10, no.4, pp. 274-279, July 2015. ISSN: 1553-0396. (**Scopus indexed**)
8. Idayachandran Govindanarayanan and Nakkeeran Rangaswamy, "Minimization of Annular Slot Antenna using Low Loss Factor Co₂Z Hexaferrite for LTE 700 MHz band," *Journal of Convergence Information Technology (AICIT)*, vol. 10, no.3, pp. 25-32, May 2015. ISSN: 2233-9299. (**ESCI, Scopus indexed**)
9. Swagath Babu M, Idayachandran G, Rajesh A, Shankar T, and Nakkeeran R, "Investigation on Defected Ground-plane Structures to Improve Isolation and Correlation in Multi-Band MIMO Antenna," *International Journal of Information and Computer Security (Inderscience)*, vol. 8, no. 3, pp. 258-27, Sep. 2016. ISSN: 17441773. (**Scopus indexed**)

Conferences:

10. Idayachandran G and Nakkeeran R, "Dualband Monopole antenna for LTE Femtocell Base Station," in Proceedings of the 8th Annual International Conference ATMS -2015, Bangalore, pp.1-3, Feb.2015.
11. Idayachandran G and Nakkeeran R, "Broadband asymmetric folded dipole antenna for LTE base station," in Proceedings of 2015 IEEE 9th International Conference on Intelligent Systems and Control (ISCO), Coimbatore, pp.25-27, Jan.2015.
12. Swagath, B.M., Rajesh, A., Nakkeeran, R., and Idayachandran, G. , "Design of DGS based dual-element multiband (DEMB) MIMO antenna for GPS and LTE-A applications," in Proceedings of IEEE 2015 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, pp.1-5, Mar.2015.
13. Swagath, B.M., Rajesh, A., Nakkeeran, R., and Idayachandran, G. , "Design of dual-element multi-band MIMO antenna for LTE-A, GPS and IEEE 802.11af applications," in Proceedings of 2015 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT), Coimbatore, pp.1-4, Mar.2015.
14. Swagath, B.M., Rajesh, A., Shankar, T., Nakkeeran, R., and Idayachandran, G., "Design of Dual-Element Tri-Band (DETB) MIMO antenna with improved isolation," in Proceedings of IEEE 2015 2nd International Conference on Electronics and Communication Systems (ICECS), Coimbatore, pp.47-50, Feb.2015.