

**Dr. D. NIRMAL**

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**RESEARCH/TEACHING INTERESTS**

Nanoelectronics, 1D / 2D Materials, Graphene, Carbon nanotubes, GaN Technology, Nanoscale device design and modelling, Device and circuit simulation- GSI, Sensors, VLSI Technology, Microwave Engineering, Solid State Devices, Electron Devices and Digital Electronics.

**EXPERIENCE**

Professor, Electronics and communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India , Nov 2020- Till Date

Associate Professor, Electronics and communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India , July 2013- October 2020

Assistant Professor, Electronics and communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India, June 2009- June 2013

Lecturer, Electronics and communication Engineering, Karunya Institute of Technology and Sciences, Coimbatore, India , June 2007- May 2009

**EDUCATION**

Degree	Branch / Specialization	University	Class	Mode	Year
Ph.D.,	Faculty of Information and Communication Engineering	Anna University	Highly Commended	Part Time	2012
M.E.,	VLSI Design	Karunya University	First Class with Distinction	Full Time	2007
B.E.,	Electrical and Electronics	Anna University	First Class	Full Time	2005
PGDHE	Diploma in Higher Education	Indira Gandhi National Open University	First Class	Part Time	2015

**SUMMARY OF INTERNATIONAL JOURNAL & CONFERENCE PUBLICATIONS - [PUBLISHED & ACCEPTED]**

Year	International Journal Publications	International Conf. Publications	National Conf. publications
2009 - 2020	71	38	5

**PATENTS**

1	A Multilayer GATE MOSFET for Reducing Short Channel Effect, Indian Patent Application No:20204109570-May 2020.
2	A Triboelectric Nanogenerator, Indian Patent Application No: 202041027095 A- Filed in July 2020.
3	Biowaste Derived Carbon Electrode Super Capacitor, Indian Patent Application No: 20204 047605A - Filed in November 2020

**RESEARCH PROJECTS**

#	Title of the project	Funding Agency	Amount(Rs.)	Year
1	Design and Fabrication of Cascode Driver Circuit using GaNHEMT on Si for space applications	Indian Space Research Organization, Govt. of India	33.44 lakh	2019-2022
2	Modernization of RF laboratory with MIMO-SDR platform	All India Council for Technical Education	12.43 Lakhs	2019-2021
3	A compact modelling of GaN Based FP-HEMT Device for High power microwave Applications	Defense Research and Development Organization, Govt. of India	21.98 lakh	2017-2019

**RESEARCH GUIDANCE**

Research guidance as supervisor	Completed	Ongoing
Doctor of Philosophy - PhD Thesis advising	7	5
Master of Engineering - Master's Thesis advising	30+	2

**PROFESSIONAL MEMBERSHIPS**

1	Life Member of ISTE(Indian Society for Technical Education)LM-56881
2	Senior Member of IEEE (Institute of Electrical and Electronics Engineering)SM-92838928
3	Life Member of SSI(Semiconductor Society of India)
4	Member of Institute of Engineers (India)M-1544705
5	Member of IETE (The Institution of Electronic and Telecommunication Engineers) M-215257

## **AWARDS/HONORS**

1. Young Achiever Award 2020 from Institution of Engineers, Coimbatore Chapter
  2. Received Young Scientist Award 2019 from the Academy of Sciences, Chennai
  3. IEI Young Engineers Award- Electronics and Telecommunication Engineering- 2017.
  4. Karunya University Achievers Award 2016-2017 for obtaining funded project from DRDO.
  5. IEEE Madras Section Professional Achievement in the year 2016.
  6. IEEE Electron Device Coimbatore Founding Chapter Chair (2015-2020).
  7. Best Researcher Award from Karunya University in the year 2014.
  8. Shir.P.K.Das Memorial Best Faculty Award in the Year 2013 by Nehru College of Educational and Charitable Trust.
  9. Best Research Paper Award with high impact factor from Karunya University in the year 2012.
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