



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Electronics Engineering
Research Admissions – December 2020
Research Guide Details

S.No.	Name of the Guide	Area(s) of Research	Mobile Number	VIT Mail id.
1.	Dr.Bala Murugan M S	Internet of Things, Artificial Intelligence and Edge computing, Deep Learning	8220638855	balamurugan.ms@vit.ac.in
2.	Dr.AbrahamSudharson Ponraj	Embedded System, Farm Management, IoT System, Automotive Electronics	9840986883	abrahamsudharson.ponraj@vit.ac.in
3.	Dr.Saranya Nair M	Wireless Adhoc and Sensor Networks, Underwater Sensor Networks, Wireless Body Area Networks, Cellular Networks	9789599626	saranyanair.m@vit.ac.in
4.	Dr.Thomas Joseph	Optical Fiber Communication, Fiber Component Design for Future High Speed Optical Links Using Few Mode/Multimode/Multicore Fibers, Optical Signal Processing	9619072052	thomas.joseph@vit.ac.in
5.	Dr.Kaustab Ghosh	Nanoelectronic Device modelling, silicon MOSFET, graphenenanotransistor, quantum dot photodetector and memory devices, solar cells	9380750796	kaustab@vit.ac.in

6.	Dr.A.Arivarasi	Sensors, Materials, Micro-Nano, 3D printing, IOT technologies	9884790401	arivarasi.a@vit.ac.in
7.	Dr.M.Jagannath	Cognitive Neuroscience, Ergonomics and Human Factors, Biomedical Signal/ Image Processing	9884386262	jagannath.m@vit.ac.in
8.	Dr.P.Vijayakumar	Wireless Communication and Network Security, IoT, Blockchain, Machine Learning and Artificial Intelligence, VLSI Implementation	9894727271	vijaya.kumar@vit.ac.in
9.	Dr.K.Mohanaprasad	Signal Processing, Acoustic signal processing, Signal modeling, speech and audio processing, synthesis and recognition of speech, signal modeling; detection and estimation, statistical signal processing, array processing; oceanographic signals and systems; video processing systems, Biomedical Signal Processing, Machine learning and Deep learning	9944403862	kmohanaprasad@vit.ac.in
10.	Dr.E.Manikandan	5G & Terahertz Antennas, Micro/Nano Devices, Sensors development for Agriculture/Bio Applications.	8939517252	manikandan.e@vit.ac.in
11.	Dr.Umadevi S	Digital IC design, Custom IC layout design and verification, Automation in VLSI circuits		umadevi.s@vit.ac.in
12.	Dr.M.Suchetha	Biomedical Signal/image processing Machine learning and deep learning applications Development of non-invasive medical devices	9841465127	suchetha.m@vit.ac.in

13.	Dr.Niraj Kumar	RF and Microwave Electronics, Antennas and Frequency selective Surfaces(FSS), Metamaterials, Millimeter wave communication,Electromagnetic Band Gap (EBG), Massive MIMO, 5G antennas, Biomedical Antenna, Reconfigurable Antenna, Microwave filters, SIW filters, Dielectric resonator antenna(DRA), Beam steering antennas, Radar Cross Section(RCS) reduction, Material characterization	9176102184	nirajkumar@vit.ac.in
14.	Dr.B.Prashanth Kumar	Semiconductor Devices Physics, Modeling and Simulation of low power and high power semiconductor devices, Tunnel fet, SB FET, JL FET, solar cell and application of semiconductor devices as Bio sensor and Light sensor	9573208977	prashanthkumar.b@vit.ac.in
15.	Dr.R.Karthik	Assistive devices for rehabilitation, Assessment of Physiotherapeutic exercises and rehabilitation, Machine learning, Deep Learning, Medical Image processing, Computer Vision	9952038357	r.karthik@vit.ac.in
16.	Dr.Gargi Raina	2D- Nanomaterial based Flexible Electronic Devices	+91999433716 4	gargiraina@vit.ac.in
17.	Dr.Ravi Prakash Dwivedi	RF and Microwave passive component, Antennas and Frequency selective Surfaces(FSS), Metamaterials, Millimeter wave communication, Massive MIMO, 5G antennas, Biomedical Antenna, Reconfigurable Antenna, Microwave	9710383369	raviprakash.dwivedi@vit.ac.in

		filters, SIW antenna, Dielectric resonator antenna(DRA), Radar Cross Section(RCS) reduction, Material characterization, High gain antenna, IOT antenna, Antenna for energy harvesting. AMC and metasurface based antenna		
18.	Dr.Anita Angeline A	VLSI - Dynamic Logic Style Circuit Design, Process Variation Tolerant Circuit Design	9500006792	anitaangeline.a@vit.ac.in
19.	Dr.Guga Priya G	Embedded Systems, Non-linear dynamics, Control systems and Artificial Intelligence, Biomedical image processing, Medical Instrumentation	9791093931	gugapriya.g@vit.ac.in
20.	Dr.B Lakshmi	Design of novel nano-electronic devices and circuits	9486579807	lakshmi.b@vit.ac.in
21.	Dr.T.Vigneswaran	FPGA implementation of Machine Learning Algorithms, Low power VLSI design, Digital signal processor design for health care systems and Digital filter design for high speed applications	9884222629 & 9003422135	vigneswaran.t@vit.in
22.	Dr.N.Chandrasekaran	Microwave Engineering and Photonics, Metamaterials, Antennas, Classical and quantum nature of radiation and its interaction with materials.	9840373558	chandrasekar.n@vit.ac.in
23.	Dr.S.Muthulakshmi	Intelligent Embedded systems and IoT, wearable devices, Artificial Intelligence, Machine learning, deep learning , In-memory computing in Big data systems, heterogeneous Embedded System design using FPGA.	7339359522	muthulakshmi.s@vit.ac.in

24.	Dr.B.Bindu	VLSI Design, Nanoelectronics	7395938327	bindu.boby@vit.ac.in
25.	Dr.Lucky Agarwal	Design and development of flexible electronic devices for photovoltaic applications	8004347806	lucky.agarwal@vit.ac.in
26.	Dr.Kalaivanan K	Wireless Sensor Networks, WBAN, UWSN, VANET, MANET, IoT and Network Security	9789543218	kalaivanan.k@vit.ac.in
27.	Dr.Ranjeet Kumar	Biomedical Signal and Image Processing, Time-Frequency Analysis, Machine/Deep Learning and applications	8839433935	ranjeet.k@vit.ac.in
28.	Dr.G.Idayachandran	Antennas, Sensors	9677425504	idayachandran.g@vit.ac.in
29.	Dr.Henridass A	Antennas for 5G and IOT applications, Microwave Engineering, Filters, mixers design, Miniaturization of Antennas, Signal integrity for high speed design	8870680433	henridass.a@vit.ac.in
30.	Dr.Saurav Gupta	Distributed Signal Processing Over Wireless Sensor Networks, Adaptive Signal Processing, Statistical Signal Processing, Nonlinear System Modeling and Control, and Machine Learning	06370081508	saurav.gupta@vit.ac.in
31.	Dr.M.Geetha Priya	VLSI, SIGNAL /IMAGE PROCESSING, ELECTRONICS	9632264326	geetha.priya@vit.ac.in
32.	Dr.S.Sofana Reka	Smart Cities (Cyber Physical System Approach - Embedded Approach on Specific Applications), Electric Vehicle (Cyber Physical System Approach) , Solar PV - Cyber Physical System Approach with Embedded Processing , Deep learning , Artificial Intelligence , Fog and Edge	9585285991	sofanareka.s@vit.ac.in

		Computing, Industrial IoT with applications		
33.	Dr.B.Nagajayanthi	Design for IoT Devices, Secured Authentication for IoTDevices ,Wireless Networking, Cyber Security, Learning algorithms for data and streaming analytics in IoT, Ultra low power IoT Devices, Secured Energy efficient routing for IoT.	7708104821	nagajayanthi.b@vit.ac.in
34.	Dr.Richards Joe Stanislaus	Millimeter wave traveling wave tube amplifiers(Defense and Communication), Antennas and planar RF circuits (next generation applications)	8800676090	richards.stanislaus@vit.ac.in
35.	Dr.John Sahaya Rani Alex	Speech recognition, Diagnosis of neurological disorder based on bio signals and bio medical imaging , Deep Learning and Assistive device design with IoT	9094908549	jsranialex@vit.ac.in
36.	Dr.Ramesh R	RF MIMO antennas for wireless applications, MIMO Antennas for 5G & 6G,Artificial Intelligence for signal processing and healthcare	9840533705	ramesh.r@vit.ac.in
37.	Dr.Prathiba A	Hardware Security-VLSI implementation of security algorithms for smart systems, side channel analysis of secure hardware implementations	8144415162	prathiba.a@vit.ac.in
38.	Dr.G.Velmathi	Machine learning , VLSI and MEMS	9566577899	velmathi.g@vit.ac.in
39.	Dr.Prakash V	Embedded system design, Real-time operating system, Battery management system in electric vehicle, Smart grid,	9952084950	prakash.v@vit.ac.in

		Internet of things and Machine learning		
40.	Dr.S.Pradeep Narayanan	IoT, MEMS, Nanoscience and Nanotechnology, Quantum Electronics, Wearable Devices	9677012986	pradeepnarayanan.s@vit.ac.in
41.	Dr.V.Ravi	Deep Learning In VLSI, Emerging Memory Technologies, Memristor Applications, Neuromorphic Computing, Smart Healthcare System, Virtual Instrumentation System	9840280111	ravi.v@vit.ac.in
42.	Dr.R.G.Sangeetha	Optical Networks, Optical Communication, Machine Learning in Optical Networks, Free Space optical Communication, Network on-chip, Photonics for Bio-Medical Applications, Survivable Networks, Software Defined Networks.	+91984070587 9	sangeetha.rg@vit.ac.in
43.	Dr.J.FlorenceGnanaPoovathy	Robotics, Image and Video Processing, Compressed Sensing	8675462014	florence.poovathy@vit.ac.in
44.	Dr.C.Hemanth	Wireless Communication and Networks, ML in Communication Networks, Free Space Optics, Embedded Systems, Mathematical Modelling	9884310795	hemanth.c@vit.ac.in
45.	Dr.K.Suganthi	Wireless sensor networks, Intelligent IoT,AI/ML for wireless networks/IoT/Industrial IoT/Vehicular network,FANET, Image analysis,Affective Computing, Multimodal analysis.	9677008395	suganthi.k@vit.ac.in
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47.	Dr.A.Sasithradevi	Video Processing	+91944299726 8	sasithradevi.a@vit.ac.in

48.	Dr.A.Ravi Sankar	VLSI Design, MEMS, Nanotechnology and Development of micro-sensors for health care and space applications	9159411184	ravisankar.a@vit.ac.in
49.	Dr.S.Sivakumar	Wireless Sensor Networks, Wireless Communication, Internet of Things, Signal and Image Processing, Optimization Techniques	9865013204	sivakumar.s@vit.ac.in
50.	Dr.V.R.Balaji	Photonics Devices	7667678242	balaji.vr@vit.ac.in
51.	Dr.Usha Kiran Kommuri	Antennas(5G MIMO Antennas and Biomedical antennas)	9952966910	usha.kiran@vit.ac.in
52.	Dr.JayaVignesh T	Low Power IoT Communication Protocol Design/Analysis/Performance Evaluation (LPWAN,LRWPAN), Wireless Ad hoc/Sensor/Underwater/Opportunistic/Vehicular/Flying Adhoc Network, Modeling, Simulation and Experimental Test Bed Implementation, Routing Protocol & metrics design, Cross Layered Design (PHY/MAC/Routing/Congestion)	9840437345	jayavignesh.t@vit.ac.in
53.	Dr.V.S.Kanchana Bhaaskaran	Low Power Digital IC Design	7358782584	kanchana.vs@vit.ac.in
54.	Dr.S.Selvendran	<ul style="list-style-type: none"> ❖ Optical communication system design. ❖ Nonlinear fiber optics. ❖ Photonic crystal fibers (Communication, Filters, Sensors)) ❖ Optical Amplifiers ❖ Radio over fiber communication. ❖ Photonic crystal devices (filters, couplers, Demultiplexer, Sensors). ❖ Visible light communication (VLC) 	9940931294	selvendran.s@vit.ac.in

		❖ Free space optics (FSO)		
55.	Dr.P.Reena Monica	Quantum Computing	9840837624	reenamonica@vit.ac.in
56.	Dr.D.Thiripurasundari	Design and analysis of multiband antenna and, passive RF components, meta material	9443007246	dthiripurasundari@vit.ac.in
57.	Dr.S.Revathi	MEMS and Microfluidic Devices, Cyber Security	9677155226	revathi.s@vit.ac.in
58.	Dr.Anith Nelleri	Digital holography, compressive sensing and inverse problems, microscopic imaging, Computational Imaging, Optical signal and image processing algorithms, IoT and intelligent systems, AI/ML for 3D vision, Li-Fi, Flat Optics, Biomaterials and Biosensors	9846715353	anith.nelleri@vit.ac.in
59.	Dr.Sakthivel S M	VLSI DESIGN, HIGH SPEED LOW POWER VLSI RECONFIGURABLE ARCHITECTURES, LOW POWER & OPTIMIZED VLSI ARCHITECTURE FOR SIGNAL & IMAGE PROCESSING, VLSI TESTING, VLSI SCRIPTING & AUTOMATION, ASIC/FPGA BASED SYSTEM DESIGN FOR IMAGE,SIGNAL & VIDEO PROCESSING. IMAGE WATERMARKING AND ITS VLSI IMPLEMENTATION	9894754934	sakthivel.sm@vit.ac.in
60.	Dr.E.Papanasam	Microelectronics and VLSI Design	8946083727	papanasam.e@vit.ac.in
61.	Dr.S.Ananiah Durai	1. Analog and Mixed Signal IC Design 2. MEMS for Bio-medical, automobile and Industrial applications 3. ASIC/FPGA Implementation of Signal processing	9962084407	ananiahdurai.s@vit.ac.in

		algorithms/Cryptographic Algorithms		
62.	Dr.R.Manoj Kumar	Computer vision , Image processing, IoT	9500370911	manojkumar.r@vit.ac.in
63.	Dr.R.Vijayarajan	Image Processing, Machine learning for image processing and computer vision, Medical image analysis	9444737333	vijayarajan.r@vit.ac.in
64.	Dr.N.Subhashini	Optical Communication & Networks, Information Security	9790784855	subhashini.n@vit.ac.in
65.	Dr.S.Sathyanarayanan	Machine Learning, Deep Learning, Data Analysis/Analytics, Biomedical Signal Processing	9944226963	sathyanarayanan.s@vit.ac.in
66.	Dr.Susan Elias	Knowledge Capture and Replay for Continual Learning	9840119868	susan.elias@vit.ac.in
67.	Dr.A.Sivasubramanian	Optical Sensors (Fiber optical sensors, Biosensor), Silicon photonic devices	9840761402	sivasubramanian.a@vit.ac.in
68.	Dr.P.Nirmala	IMAGE PROCESSING	7708457482	nirmala.p@vit.ac.in
69.	Dr.E.Sathish	Biomedical signal processing, Robotics and control	9976966371	sathish.e@vit.ac.in
70.	Dr.A.Brintha Therese	Optical communication and Network, Biomedical image processing	8939507985	abrinthatherese@vit.ac.in
71.	Dr.Augusta Sophy Buelet	Low Power VLSI Design, FPGA Implementation of Signal Processing Systems, Reconfigurable FPGAs	9884620611	augustasophyt.p@vit.ac.in
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