

College of Engineering Trivandrum

Department of Electronics & Communication Engineering

Research Supervision

Sl. No.	Name of the Faculty	Name of Research Scholar	Title of Thesis	University	Year of Registration
1.	Dr. Jiji C.V.	Anitha Edison	Action Recognition	Kerala University	2014
2.		Blossom Treesa Bastian	Object Detection	Kerala University	2014
3.		Parvathi V. S.	Dense 3D Reconstruction of Objects from Blurred Image Sequences	Kerala University	2014
4.		Neetha George	Study and Investigation on Algorithms for Segmentation of Optical Coherence Tomography (OCT) Images for Ophthalmic Applications.	Kerala University	2015
5.		Linu Shine	Study and Investigation on Algorithms for Anomaly Detection in Surveillance Videos	Kerala University	2015
6.		Anoop K Johnson	Investigation on Techniques for High Dynamic Range (HDR) Image Generation	Kerala University	2015
7.		Deepa P. L.	Image Deblurring using Blind Deconvolution	Kerala University	2015
8.		Sreena V. G	Super Resolution of Hyper Spectral Images	Kerala University	2015
9.		Ms. Cynara Justine	Android Malware Detection Using Deep learning	KTU	
10.		Devika R G	Medical Image Classification Using Deep Learning	KTU	2020
11.		Ms. Jisa David	Information Theoretic Approach to Distributed Denial of Service Attack Detection	Kerala University	2014
12.		Ms. Anne Dickson	Optimization Techniques for effective detection of Intrusions	Kerala University	2013
13.		Ms. Bindu V.	Adaptive, Intelligent, Ontological Spam Filter	Kerala University	2013

14.	Dr. Ciza Thomas	Ms. Rejimol Robinson	Mitigation Techniques for Distributed Denial of Service Attacks	Kerala University	2013
15.		Mr. Satheesh	Detection of adversaries on Mobile Android Networks	Kerala University	2015
16.		Mr. Rendhir R. Prasad	Self Healing and Self Evolving Cyber Security Systems	APJAKTU	2016

17.	Dr. Santhosh Kumar S.	Sathya Jose	Study and Recognition of Animal Muzzle Patterns	Kerala University	2008
18.		S. Rishidas	Motor Current Signature Analysis Using Multi Resolution Methods	Kerala University	2007
19.		Suma Sekhar	Techniques to improve Time and Frequency Synchronisation technique in MIMO-OFDM System	Kerala University	2013
20.		Asha J	Analysis of Satellite Cloud Images For Rain Fall Prediction Using Transform Domain Methods	APIJAKTU	2019
21.		Sanoj Viswasom	Study of Optimized And Filter Structures For Wirelesss Communication Systems	APIJAKTU	2019
22.	Dr.Biji Jacob	Monisha Menon A	Space vector based pulse density modulation of multi-level inverter	APIJAKTU	2017
23.		Poornima Indusekhar	Improved maximum Power Point Tracking of Solar Cell	APIJAKTU	2017
24.		Jeeshma Mary Paul	3D Space vector based sigma delta modulation scheme for Induction Motor Drive	APIJAKTU	2018
25.		Monisha Menon A	Space Vector Pulse Density Modulation Scheme for Multilevel Inverters	KTU	2017
26.		Jeeshma Mary Paul	3D-SVPDM	KTU	2018
27.	Dr. Suresh K	Jazir S	Performance Analysis of Channel Estimation Techniques for Massive MIMO-OFDM systems	APIJAKTU	2017
28.		Ambily N	Deep Learning Applications in Biomedical Signal Processing	APIJAKTU	2017

29.		Aswathy Madhu	Classification of Environmental Sounds	APJAKTU	2017
30.		Salini S	Environmental Sound Analysis	APJAKTU	2018
31.	Dr. Tara Raveendran	T. S. Anu	Channel Estimation in Wireless Communication	APJAKTU	2018
32.	Dr. Shiny G.	Chandini G S	PWM Based Common Mode Voltage Elimination Techniques for Open-End Winding Induction Motor Drives	University of Kerala	2013
33.		Anish Gopinath	Three Dimensional Space Vector PWM for Multilevel Inverters	University of Kerala	2013
34.		Sumam M J	FPGA Implementation Of Space Vector Pulse Width Modulator for Multilevel Inverters	University of Kerala	2016
35.		Smitha P S	Investigations On Hybrid Energy Storage Systems For Renewable Energy	APJAKTU	2017
36.		Surashmi N L	Power Quality Improvement Using Active Filters In Induction Motor Drives	APJAKTU	2017
37.		Lakshmylal P L	Study And Evaluation Of Physiological Features Of Autism Using EEG Through Computational Techniques	APJAKTU	2018
38.		Shani S J	Space Vector PWM Techniques for Multiphase Multilevel Inverters	APJAKTU	2018
39.		Latha V.	OCT/Image segmentation	Kerala University	2016
40.	Dr. Sreeni K.G.	Aravind Sekhar	Haptic Rendering	Kerala University	2016
41.		Joaquim Ignatious Monterio	Music Signal Processing	APJKTU	2019
42.		Chippy M Manu	Image/video dehazing	KTU	2019
43.		Rehna T S	Signal Processing	KTU	2020
44.	Dr. David Solomon George	Kavya Manohar	Malayalam Speech Recognition	APJKTU	2019

45.	Dr. Rajeev Rajan	Lekshmi C K	Instrument Recognition	APJKTU	2019
46.		Amlu Anna Joshi	Speech Recognition	APJKTU	2019
47.		Ajitha K P	Mimicing Speech Recognition	APJKTU	2019
48.		Jazir S	Performance Analysis of Channel Estimation Techniques for Massive MIMO-OFDM systems (Co-guide)	APJAKTU	2017
49.		Ms.Amlu Anna Joshy	Dysrathic speech recognition	KTU	2019
50.		Ms. Lekshmi C.R	Predominant instrument recognition	KTU	2019
51.		Ms. Kavya Manohar	Automatic speech recognition	KTU	2019
52.		Ms. Parvathy	Mimicking Speech Recognition	KTU	2020
53.	Dr. Joseph Zacharias	Archa Chandrasenan	Radio over fiber	KTU	2020
54.		Anu S S	Image processing	KTU	2020
55.		Akhilaraj D	Image processing	KTU	2020
56.		Aneesh R P	Biomedical Image processing	KTU	2021
57.		Viji R	Study and implementation of efficient VOT algorithms to address the VOT challenges	KTU	2019
58.		Shehan P R	Machine Learning and Deep learning techniques for	KTU	2020

	Dr. Sreelatha		Visual Perception in Autonomous driving vehicles		
59.	G	Divya Prasad K H	Deep learning techniques for object detection and scene perception	KTU	2021
60.		Sreedivya R S	Emotion detection and classification using deep learning techniques	KTU	2021

Ph.D. Awarded

Ph.D. Degree Awarded in the Department of Electronics & Communication Engineering

2017

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2017	Mrs. Nitha V Panicker	Dr.A.Sukesh Kumar	Real time monitoring of physiological Parameters through telemedicine	12/20/2017

2018

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2018	Tony Jose	Dr. N Vijayakumar	Minimizing Total Harmonic Distortion (THD) in Radio over Fiber Systems	01/10/2018 (open defence)
2	2018	Joseph Zacharias	Dr. N Vijayakumar	Performance Improvement of Optical Wireless Systems	17/04/2018
3	2018	Pradeep R.	Dr. N Vijayakumar	Performance Enhancement of Radio over Fiber Systems	24/03/2018

2019

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2019	Smt. Yamuna K Moorthy	Dr. Shiny G. & Dr. Sakuntala S Pillai	Energy Efficient Design in Cognitive Radio Networks	03-05-2019 (Open Defence)
2	2019	Reshmalakshmi C.	Dr. Shiny G. & Dr. M. Sasikumar	Improved Image Enhancement using Fuzzy Logic	25/02/2019 (Open Defence)
3	2019	Sreedevi P.	Dr. N Vijayakumar	Performance enhancement of OFDM based Radio Over Fibre Systems	11/01/2019 (open defence)
4	2019	Malini S	Dr. Jiji C. V.	Novel multiresolution techniques for Gray and Color Image Denoising	19/02/2019
5	2019	Vinod BR	Dr. Shiny G	Direct Torque Control Techniques For Inverter Fed Open-End Winding Induction Motor Drives	20/09/2019 (open defence)
6	2019	Paul Thomas	Dr. Jiji C. V.	Investigation On Biomedical Signal Analysis Using Artificial Neural Networks And Wavelets	18/07/2019

2020

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2020	Anitha Edison	Dr. Jiji C. V.	Study and investigation of algorithms for action recognition in videos and images	17/07/2020
2	2020	Blossom Treasa Bastian	Dr. Jiji C. V.	Study and Investigation on Appropriate Feature Sets for Detecting Objects in Images	24/08/2020

3	2020	Chandini G S	Dr Shiny G	PWM Based Common-mode voltage elimination techniques for Open-end winding induction motor drives	10/11/2020
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2021

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2021	Jeena R S	Dr. Shiny G	Study & Performance analysis of Medical Images in Stroke Patients	07/05/2021
2	2021	Satya Jose S L	Dr. S. Santhosh kumar	'Study And Recognition Of Animal Muzzle Patterns'.	03/05/2021