

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.		Cynara Justine	Android Malware Detection Using Deep learning	KTU	2017
10.		Devika R G	Medical Image Classification Using Deep Learning	KTU	2020
11.		Jisa David	Information Theoretic Approach to Distributed Denial of Service Attack Detection	Kerala University	2014
12.		Anne Dickson	Optimization Techniques for effective detection of Intrusions	Kerala University	2013
13.		Bindu V.	Adaptive, Intelligent, Ontological Spam Filter	Kerala University	2013

14.	Dr. Ciza Thomas	RejimolRobinson	Mitigation Techniques for Distributed Denial of Service Attacks	Kerala University	2013
15.		Satheesh	Detection of adversaries on Mobile Android Networks	Kerala University	2015
16.		Rendhir R.Prasad	Self Healing and Self Evolving Cyber SecuritySystems	KTU	2016
17.		Anagha A.S.	Intrusion Detection Using Explainable AI	KTU	2020
18.	Dr. Santhosh Kumar S.	Sathya Jose	Study and Recognition of Animal Muzzle Patterns	Kerala University	2008
19.		S. Rishidas	Motor Current Signature Analysis Using Multi Resolution Methods	Kerala University	2007
20.		Suma Sekhar	Techniques to improve Timeand Frequency Synchronisation technique in MIMO-OFDM System	Kerala University	2013
21.		Asha J	Analysis of Satellite Cloud Images For Rain Fall Prediction Using Transform Domain Methods	KTU	2019
22.		Sanoj Viswasom	Study of Optimized And Filter Structures For Wirelless Communication Systems	KTU	2019
23.	Dr.Biji Jacob	Monisha Menon A	Space vector based pulse density modulation of multi-level inverter	KTU	2017
24.		Poornima Indusekhar	Improved maximum Power Point Tracking of Solar Cell	KTU	2017
25.		Jeeshma Mary Paul	3D Space vector based sigma delta modulation scheme for Induction Motor Drive	KTU	2018
26.		Monisha Menon A	Space Vector Pulse Density Modulation Scheme for Multilevel Inverters	KTU	2017

27.		Jeeshma Mary Paul	3D-SVPDM	KTU	2018
28.	Dr. Suresh K	Jazir S	Performance Analysis of Channel Estimation Techniques for Massive MIMO-OFDM systems	KTU	2017
29.		Ambily N	Deep Learning Applications in Biomedical Signal Processing	KTU	2017
30.		Aswathy Madhu	Classification of Environmental Sounds	KTU	2017
31.		Salini S	Environmental Sound Analysis	KTU	2018
32.		Reshmi S Bhooshan	Development of Deep Learning Framework For Video Analytics	KTU	2019
33.		Dr. Tara Raveendran	T. S. Anu	Channel Estimation in Wireless Communication	APJAKTU
34.	Dr. Shiny G.	Chandini G S	PWM Based Common Mode Voltage Elimination Techniques for Open-End Winding Induction Motor Drives	Kerala University	2013
35.		Anish Gopinath	Three Dimensional Space Vector PWM for Multilevel Inverters	Kerala University	2013
36.		Sumam M J	FPGA Implementation Of Space Vector Pulse Width Modulator for Multilevel Inverters	Kerala University	2016
37.		Latha V.	OCT/Image segmentation	Kerala University	2016
38.		Smitha P S	Investigations On Hybrid Energy Storage Systems For Renewable Energy	KTU	2017
39.		Surashmi N L	Power Quality Improvement Using Active Filters In Induction Motor Drives	KTU	2017
40.		Lakshmylal P L	Study And Evaluation Of Physiological Features Of Autism Using EEG Through Computational Techniques	KTU	2018
41.		Shani S J	Space Vector PWM Techniques for Multiphase Multilevel Inverters	KTU	2018

42.		A Gauri	Direct Talk Control of Induction Motor Drive	KTU	2019
43.		Lalu V	Fault Diagnosis For Electric Drive Applications Using Machine Learning Approach.	KTU	2020
44.	Dr. Sreeni K.G.	Aravind Sekhar	Haptic Rendering	Kerala University	2016
45.		Joaquim Ignatious Monterio	Music Signal Processing	APJKTU	2019
46.		Chippy M Manu	Image/video dehazing	KTU	2019
47.		Rehna T S	Signal Processing	KTU	2020
48.		Shijin Knox G U	Biomedical Imaging	KTU	2021
49.		Dr. Rajeev Rajan	Lekshmi C K	Instrument Recognition	KTU
50.	Ajitha K P		Mimicing Speech Recognition	KTU	2019
51.	Amlu Anna Joshy		Dysrathic speech recognition	KTU	2019
52.	Lekshmi C.R		Predominant instrument recognition	KTU	2019
53.	Kavya Manohar		Automatic speech recognition	KTU	2019
54.	Parvathy Harikumar		Mimicking Speech Recognition	KTU	2020
55.	Noumida A		Speech Processing	KTU	2021
56.	Dr. Joseph Zacharias		Archa Chandrasenan	Radio Over Fiber	KTU
57.		Anu S S	Image Processing	KTU	2020
58.		Akhilaraj D	Image Processing	KTU	2020
59.		Aneesh R P	Biomedical Image processing	KTU	2020
60.		Supriya S S	Radio Over Fiber	KTU	2021

61.		Libya Thomas	Compressed MRI Sensing	KTU	2021
62.		Abhishek Krishnan	Biomedical Image Processing	KTU	2021
63.	Dr. Sreelatha G	Viji R	Study and implementation of efficient VOT algorithms to address the VOT challenges	KTU	2019
64.		Shehan P R	Machine Learning and Deep learning techniques for Visual Perception in Autonomous driving vehicles	KTU	2020
65.		Divya Prasad K H	Deep learning techniques for object detection and scene perception	KTU	2021
66.		Sreedivya R S	Emotion detection and classification using deep learning techniques	KTU	2021
67.		Greeshma S L	Image Based Object Detection	KTU	2021
68.	Dr. Alex Raj S M	Gayathri R	Object recognition from image samples	KTU	2021
69.		Surjith S	Detection of Adulteration	KTU	2021
70.		Dinu A G		KTU	2021
71.	Dr. Sivakumar R	Lakshmi Priya C V		KTU	2021
72.		Sajitha V. Raj	Anotation of Indian Classical Dance	KTU	2021
73.	Dr. Pradeep R	Smriti Govind	Mobile Camera Image Enhancement	KTU	2021
74.		Arya M Krishna	Image Fusion	KTU	2021
75.		Archana S Sekhar	Optical Wireless Hybrid Network	KTU	2021
76.	Dr. Binu L S	Hema S Mahesh		KTU	2021
77.		Minnu Jayan C		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	Yamuna K Moorthy	Dr. Shiny G. & Dr. Sakuntala S Pillai	Energy Efficient Design in Cognitive Radio Networks	03-05-2019 (Open Defence)
2	2019	Reshmalaksmi 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 Treesa 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
3	2021	Swapna P S	Dr. Sakuntala S Pillai & Dr. Sreeni K G	Resource Allocation In OFDMA Systems For Joint Uplink/Downlink Directions	12/07/2021 (Open Defence)
4	2021	Ramu R	Dr.Shiny G	Real-Time Assessment of Cardiac Patients Through Telemedicine	04/08/2021 (Open Defence)
5	2021	Sandeep C S	Dr. N Vijayakumar	Early Diagnosis of Alzheimer's Disease Using Image Analysis & Soft Computing Techniques	October 2021
6	2021	Fathima Rasheed J	Dr. Suresh Babu V	Investigations on Graded Bandgap Thin Film Solar Cells	October 2021
7	2021	Nisha Jose K	Dr. Suresh Babu V		October 2021

2022

No	Year	Name of the Scholar	Name of the Supervisor	Thesis Title	Date of degree awarded
1	2022	Harish T V	Dr. Rajeev V R	Effect of Stroke Length Variation On The Wear Behaviour of Aluminium Alloy Composites Under Reciprocating Sliding Contact	24/01/2022 (Open Defence)
2	2022	Neetha George	Dr. Jiji C V	Study and Investigation on Algorithms for Segmentation of Optical Coherence Tomography (OCT) Images for Ophthalmic Applications.	16/02/2022 (Open Defence)