

BIO DATA



Name : **Dr.A.Lakshmi**

Designation : Professor

Department : Electronics and Communication Engineering

Address for Communication : Ramco Institute of Technology.

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Mobile Number : 7708680640, 7598341536 (what's app)

Google Scholar link :

<https://scholar.google.com/citations?pli=1&authuser=1&user=eKoEaW0AAAAJ>

1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
SSLC	---	P.A.C.R. Ammani Ammal Girls' Hr.Sec.School, Rajapalayam/ State Borad- Tamilnadu	1993
HSC	Maths , Biology, Physics, Chemistry	SHNV Girls' Hr Sec School, Sivakasi/State Borad- Tamilnadu	1996
DECE	Electronics and Communication Engineering	Government Polytechnic for Women, Madurai / Department of Technical Education, Government of Tamilnadu	1999
B.E.	Electronics and Communication Engineering	Arulmigu Kalasalingam College of Engineering/ Madurai Kamaraj University	2002
M.E	ECE/ Optical Communication	A.C.College of Engineering and Technology, Karaikudi/ Anna University	2007
Ph.D	ECE/ Image processing and Soft Computing Techniques	Kalasalingam Academy of Research and Education/ Kalasalingam University (Deemed)	2018

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1.	Professor	Ramco Institute of Technology	1.2.2024	Till Date

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2.	Associate Professor	Ramco Institute of Technology	1-12-2021	31.1.2024
3.	Associate Professor	Kalasalingam Academy of Research and Education, Krishnankoil	1-09-2018	29-11-2021
4.	Assistant Professor-III	Kalasalingam Academy of Research and Education, Krishnankoil	1-12-2016	30-08-2018
5.	Assistant Professor-II	Kalasalingam Academy of Research and Education, Krishnankoil	1-09-2012	30-11-2016
6.	Assistant Professor-I	Kalasalingam Academy of Research and Education, Krishnankoil	13-07-2007	31-08-2012
7.	Lecturer	V.P.M. M Engineering College for Women, Krishnankoil	1-06-2002	30-07-2005

3. Research Interest

Image Processing with Soft computing Techniques, Optical Communication

4. Publications

4.1 JOURNAL PUBLICATIONS

SCIE Journals

1. Thenmoezhi Nagarathinam, Lakshmi Adhi, Rajalakshmi Jeyapal, Arockiya Jesu Prabhu Lazer, "Multi-Objective Image Fusion for Brain Tumor Detection Using Improved Weighted Quantum Firefly Optimization and StyleGAN-MAE-SwinViT" International Information and Engineering Technology Association, Traitement du Signal (TS) in Volume 42, Number 4, 2025. **IF 1.2**
2. Dhanusha, P.B., Muthukumar, A., Lakshmi, A, "Deep Feature Blend Attention: A New Frontier in Super Resolution Image Generation" Neurocomputing, Elsevier, Available online 28 November 2024, Version of Record 11 December 2024. Volume 618, 14 February 2025, 128989. **IF 5.5**, <https://doi.org/10.1016/j.neucom.2024.128989>
3. N. Thenmoezhi, B. Perumal, A. Lakshmi, "Efficient image fusion using multi scale decomposition and absolute maximum fusion rule for MRI and CT brain images" Int J Syst Assur Eng Manag <https://doi.org/10.1007/s13198-024-02268-0> (ESCI), Received: 25 November 2023 / Revised: 6 January 2024 / Accepted: 22 January 2024
4. N. Thenmoezhi, B. Perumal, A. Lakshmi, "Multi View Image Fusion Using Ensemble Deep Learning Algorithm for MRI and CT Images" ACM Transactions on Asian and Low-Resource Language Information Processing, Accepted 2023, Published online: 31 Jan 2024, <https://doi.org/10.1145/3640811> (SCIE with **IF:1.47**)
5. A.Lakshmi, Manjunathan Alagarsamy, A. Anbarasa Pandian, Dinesh Paramathi Mani, "Evolutionary gravitational neocognitron neural network optimized with marine predators optimization algorithm for MRI brain tumor classification" Electromagnetic Biology and Medicine, Received 23 Sep 2022, Accepted 13 Dec 2023, Published online: 13 Jan 2024, <https://doi.org/10.1080/15368378.2024.2301952> (SCIE with **IF:1.97**)
6. Muthuvel Arumugam, Arunprasath Thiagarajan, Lakshmi Adhi, Shyamala Alagar, "Crossover smell agent optimized multilayer perceptron for precise brain tumor classification on MRI images" Expert Systems with Applications,

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<https://doi.org/10.1016/j.eswa.2023.121453>, Available online 22 September 2023, Version of Record 5 October 2023. **IF:8.5**

7. N. Bhuvaneshwary, J. Denya and A. Lakshmi, "Hybrid Optimized Verification Methodology using Deep Reinforcement Neural Network" *Journal of Intelligent & Fuzzy Systems*, IOS Press , Volume 45, issue 3, PP: 3715–3728 , 24 August 2023 DOI:10.3233/JIFS-232132, **IF 2.0**
8. N.Thenmozhi, B.Perumal, **A.Lakshmi**, "Clustering based image segmentation for optimal image fusion using CT and MRI images" *International Journal of Modeling, Simulation and Scientific Computing* . Accepted on 16th Dec 2022. Now available in online from 21st January 2023 with <https://doi.org/10.1142/S1793962324410010> (ESCI)
9. M. Ramkumar, **A. Lakshmi**, M. Pallikonda Rajasekaran, A. Manjunathan, "Multiscale Laplacian graph kernel features combined with tree deep convolutional neural network for the detection of ECG arrhythmia," *Biomedical Signal Processing and Control*, Published: 28 March 2022. Impact Factor: 3.880, ISSN: 1746-8094 (Online Print available), Volume 76, July 2022, 103639, Elsevier, (SCIE), <https://doi.org/10.1016/j.bspc.2022.103639>, **IF:5.076**
10. **A. Lakshmi**, M.Pallikonda Rajasekaran, S.Jeevitha, S.Selvendran, "An Adaptive Mri Pet Image Fusion Model Based On Deep Residual Learning And Self Adaptive Total Variation" *Arabian Journal Of Engineering And Technology*, (online print available) 2022, **IF -2.334**, <https://doi.org/10.1007/s13369-020-05201-2> , Volume:8, PP: 10025-10042
11. B. Ben Sujitha, N.Bhuvaneshwary, **A.Lakshmi** A.Nesarani, "Prediction Of Drowsiness Of Human Using Physiological Measured With Optimized Learning Methods" *Caribbean Journal of Science*, Volume 53, ISSUE 2 (MAY - AUG), 2019,ISSN: 0008-6452,pp 909-928.- **IF 0.2**
12. S.Selvendran, A.Sivanantharaja, Isakki Muthu and **A. Lakshmi**, "Certain Investigation On Visible Light Communication With Ofdm Modulated White Led Using Optisystem Simulation" in *Wireless Personal Communications*, Volume 109, pages1377–1394 (2019) **IF-1.671**
13. **A.Lakshmi**, T.Arivoli, M.Pallikonda Rajasekaran, "Mix model for Optimization of Textural Features applied to Multiple Sclerosis Lesion Tumor Segmentation" *International Journal of Biomedical Engineering and Technology (IJBET)*,vol30, issue4, 2019,pp-360-381,2019. **IF-0.13**
14. **A.Lakshmi**, T.Arivoli, M.Pallikonda Rajasekaran, "A Novel M-ACA-Based Tumor Segmentation and DAPP Feature Extraction with PPCSO-PKC-Based MRI Classification" *Arabian Journal of Science and Engineering*, Springer, Vol 43,issue 12, pp 7095-7111, 2018 ,**IF 2.334**

Scopus Journals

1. "Dhanusha P B1, Dr. J. Bennilo Fernandes, Dr. A. Muthukumar, Dr. A. Lakshmi", "Robust Medical Image Reconstruction Using a Self-Evolving Encoder–Decoder and Adaptive Convolutional Power Scaling" (*IJACSA*) *International Journal of Advanced Computer Science and Applications*, Vol. 17, No. 2,28th Feb 2026, Page no: 284-292. DOI: 10.14569/IJACSA.2026.0170230
2. K Kartheeban; M Sri Ram Ganesh; V Aanandaram; S Jeevitha; A. Lakshmi"Optimized Deep Learning Architecture for Sentiment Classification Using CNN-BiLSTM and Advanced Word Embeddings" 2025 11th International Conference on Smart Computing and Communications (ICSCC)on 3-5 July 2025, Date Added to IEEE Xplore: 17 November 2025 ISBN Information: Electronic ISBN: 979-8-3315-2562-0

3. "Krishna Kumari L;R. Rajalakshmi;K. Ramalakshmi;A. Lakshmi;G. Subhashini;G. Theivanathan,"Enhancing Pneumonia Detection Through Convolutional Neural Networks and Data Augmentation In Chest X-Ray Imaging",International Conference on Advanced Computing and Communication Systems,Oct 2024,IEEE Madras Section. DOI: 10.1109/ICACCS60874.2024.10717046
4. L. Krishna Kumari;V. Anusuya;K. Ramalakshmi;R Rajalakshmi;G. Theivanathan;A. Lakshmi,"Edge Enhanced Densely Connected Convolutional Network for Liver Tumor Segmentation",International Conference on Advanced Computing and Communication Systems,Oct 2024,IEEE Madras Section. DOI: 10.1109/ICACCS60874.2024.10717318
5. Dr.A.Lakshmi, Mrs.N.Bhuvaneshwary, Mr.Aenike Umesh Chandra Reddy, Mr.Kakanuru Muralidhar Reddy, Mr.Sandeep kumar presented a paper titled, "Artificial Intelligence based Smart Electricity Billing Management Systemt" ; in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.: Available in IEEE xplore online with <https://doi.org/10.1109/ICACITE53722.2022.9823515> (Scopus indexed) From 18 th July 2022.
6. N.Bhuvaneshwary, J.Deny, A.Lakshmi, presented a paper titled , " Exploration of Reusability of Universal Verification Technology" in IEEE Second International Conference on Advances in Computing and Innovative Technologies in Engineering (ICAECT 2022) organized by Department of Electrical and Electronics Engineering, Galgotias of College of Engineering & Technology, Greater Noida on 28.04.2022 & 29.04.2022. Now available in online with <https://doi.org/10.1109/ICACITE53722.2022.9823570> (Scopus indexed) From 18th July 2022.
7. Shashi Kant Dargar, Amit Gupta, Mohd. Sabir, **Adhi.Lakshmi** presented a paper titled "Design of U-Slot Microstrip Patch Antenna for Wireless Applications" in IEEE Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT 2022) organized by Narasaraopeta Engineering College, Narasaraopeta, Andra Pradesh on 21.04.2022 & 22.04.2022. Available in online with <https://doi.org/10.1109/ICAECT54875.2022.9807838> (Scopus indexed) From 1st July 2022.
8. N.Bhuvaneshwary, A.Lakshmi, Ediga Bhuvaneshwari, Pulivendula Jameel Ahmed, Mopidevi Vaishnavi presented a paper titled, " Multi Modal Image Fusion Technique For Detecting Brain Tumor" 6th International Conference on Computing Methodologies and Communications (ICCMC 2022) organized by Surya Engineering College, Erode, India during March 29-31, 2022. Available in IEEE xplore online with <https://doi.org/10.1109/ICCMC53470.2022.9753734> (Scopus indexed) From 13th April 2022.
9. Dhanusha P.B, Muthukumar A, **Lakshmi A** presented a paper titled "A Novel approach for Early Invention of Retinal Disorders using Machine Learning" in virtual 6th International Conference on Inventive Systems and Control (ICISC 2022) (SPRINGER), JCT College of Engineering and Technology, Coimbatore, on 06.01.2022 & 07.01.2022(**Scopus**)

10. Dhanusha, P.B.,Muthukumar, A.,Lakshmi, A. “Super-resolution of Retinal Fundus Images Using Generative Adversarial Networks”, Proceedings - 2nd International Conference on Next Generation Intelligent Systems, ICNGIS 2022, 29-31 July 2022, Kottayam, India, [DOI: 10.1109/ICNGIS54955.2022.10079882](https://doi.org/10.1109/ICNGIS54955.2022.10079882)
11. Lakshmi, A.,Kumar, Y.R.,Krishna, N.S.,Manisha, G,” IOT Based Agriculture Monitoring and Controlling System” 6th IEEE International Conference on Communication and Electronics Systems, ICCES 2021; Coimbatre; India; 8 July 2021 through 10 July 2021, [DOI: 10.1109/ICCES51350.2021.9489198](https://doi.org/10.1109/ICCES51350.2021.9489198)
12. R Ragumadhavan, N Thenmozhi, **A Lakshmi**,K R Aravind Britto, “Multiple input and multiple output OFDM for visible light communication”, Journal of Physics Conference series Dec 2020 [DOI:10.1088/1742-6596/1717/1/012065](https://doi.org/10.1088/1742-6596/1717/1/012065)
13. Manjunathan A, **A.Lakshmi**, Ananthi S, Ramachandran A, Bhuwaneswari, “ Automatic Text and Sound Using Hand Glove for Disambiguated and Mute People”, Annals of the Romanian Society for Cell Biology, 2021: Volume 25: Issue 3, 7401–7407, ISSN 1583-6258
14. **A. Lakshmi**, C.Charan Kumar, A.Sravani, Gayathri, “Automatic Text and Sound Using Hand Glove for Disambiguated and Mute People” Annals of the Romanian Society for Cell Biology, 2021: Volume 25: Issue 5, ISSN 5002–5010.
15. **Dr.A.Lakshmi** , Pedapudi Lakshmi Narayana , Balan Abilash , Kotte Rajesh , “Intelligence Vehicle Using GPS”, Annals of the Romanian Society for Cell Biology Volume 25, Issue 5, May 2021, PP 312-318, ISSN 1583-6258
16. **A.Lakshmi**, M.Aishwarya, D.R.Benita Raja Sheba, K.Flavita Angeline Nivetha, “Detection Of Abnormalities In Abdominal aorta Using Deep Learning Neural Network”, JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125
17. **A.Lakshmi**, N.Bhuvanewary, Mrs.S.Jeevitha, Muthuvel Arumugam, “An Effective Optimization and High Authenticate Feature Extraction in digital Watermarking using 2-level DWT Transform”, JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125
18. **A.Lakshmi**, Mrs.S.Jeevitha, Mrs.N.Thenmozhi, Mrs.N.Bhuvanewary, “Image Fusion Based Multimodal Biometric Recognition”, JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, ISSN:2394-5125
19. **Dr.A.Lakshmi**, Dr.Kyung Tae Kim, M.Tanmayi, K.Pavani, “Design of Low-power Multiplier using Spurious Power Suppression Technique (SPST)”, JOURNAL OF CRITICAL REVIEWS, Vol 7, No 4, March 2020, Page no 1410-1416, ISSN:2394-5125
20. N. Bhuvanewary , **A. Lakshmi** “Design And Optimization Of Reversible Look Ahead Carry Adder And Carry Save Adder”3C Technolia, ISSN 2254 – 4143 PP 113-127, 2020, <http://doi.org/10.17993/3ctecno.2020.specialissue4.113-127>
21. P. B. Dhanusha, **A. Lakshmi**, K. Saravanan, “SMART DRIVING SYSTEM WITH AUTOMATIC DRIVERALERT AND BRAKING MECHANISM”“3C Tecnología., 2020, PP: 287-299, ISSN 2254 – 4143, <http://doi.org/10.17993/3ctecno.2020.specialissue4.287-299>
22. N.Bhuvanewari , **A.Lakshmi**, “Design And Implementation Of Intelligent Arm Based Verification Methodology For Low Computation Time And High Performance”, International Journal of Advanced Science and Technology, Vol 28, Issue 15, 2019, PP 240-252, ISSN 2005-4238(**Scopus**)
23. **A.Lakshmi**, Dr.T.Arivoli, S. Sathiya, “Comparative Study of SVM and ANFIS for Ischemic stroke in brain MRI” International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No.1 (2015) pp. 658-663

24. **A.Lakshmi**, Dr.T.Arivoli, “COMPUTER AIDED DIAGNOSIS SYSTEM FOR BRAIN TUMOR DETECTION AND SEGMENTATION”, Journal of Theoretical and Applied Information Technology, Vol. 64. No. 2 ,20 June 2014
25. **A.Lakshmi**, T.Arivoli, R.Vinupriyadharshini, “ Noise and skull removal of Brain Magnetic Resonance Image Curvelet transform and Mathematical Morphology” International Conference on Electronic and Communication Systems (ICECS’ 14) , Karpagam college of Engineering Coimbatore, 13th and 14th Feb 2014. [DOI: 10.1109/ECS.2014.6892801](https://doi.org/10.1109/ECS.2014.6892801)
26. J.Selvakumar, **A.Lakshmi**, Dr.T.Arivoli, “Brain Tumor Segmentation and its Area Calculation in Brain MR images using K-means Clustering and Fuzzy C-means Algorithm” IEEE- International conference on Advances in Engineering, Science and Management 2012 (IEEE- ICAESM-2012),E.G.S. Pillay Engineering College, Nagapattinam 30th& 31th Mar 2012.(Published in IEEE Xplore).
27. **A.Lakshmi**, R.Radhakrishnan, “Priority Based Polling and Scheduling Algorithm for Intra piconets in Bluetooth” Asian Journal of Computer Science and Technology, Vol 1, pp 21-25, Jan – Jun 2012.

Other Peer Reviewed Journal

1. Dhanusha P.B, **A.Lakshmi**, “ A Review on Image Super Resolution Using Deep Learning Neural Networks” Journal of Pharmaceutical sciences and research, vol 13(9), 2021,pp 521-524, ISSN 0975-1459
2. **Dr. A. Lakshmi**, Yemireddy Chandu Vardhan Reddy, Gangineni Vinay Kumar, V. V. Bhogachari, “MRI brain image segmentation using soft computing techniques”, International Journal of Advance Research, Ideas and Innovations in Technology, Volume 7, Issue 3,June 2021, PP 1059-1062, ISSN 2454-132X
3. Prashanth, Pavan Kalyan, Balaji and **A.Lakshmi**, “Real Time Bus arrival system with advanced Features”, International Journal of Innovative Research in Management, Engineering and Technology(IJIRMET),vol-4,issue-4,April 2019.pp 3-6.
4. S. Sulthan Alaudeen and **A.Lakshmi**, “Degradable and non-degradable waste Separation using intelligent approach”, International Journal of Emerging Technology and Innovative Engineering (IJETIE),vol-5, issue-5, May2019.Pp-301-304, (ISSN: 2394 – 6598).
5. D.Jagapathi Babu, P.Muthuraj, A.Suryaand **A.Lakshmi**, “Automated Detection of Human Emotions and Heart Rate from Facial Expression using PNN”, International Journal of Emerging Technology and Innovative Engineering (IJETIE), vol-5, issue-5, May2019. Pp-290-296(ISSN: 2394 – 6598).
6. **Dr.A.Lakshmi**, G.S.Nivetha, “Identification of Rail Fasteners using SVM Classifier”, International Journal of Digital Communication and Networks (IJDCN), vol 11, No 6, 2019, ISSN 2349-9850, PP 26-29,
7. A.Antony Ashwin, B.Bavatharani, R.Deris, **Dr.A.Lakshmi**, “Implementation of Fake Note Detection Using Digital Image Processing Technique with Arduino” International Journal of Digital Communication and Networks (IJDCN), Vol 11, No 6, 2019-PP-07-15, ISSN 2349-9850.
8. M.Raghavi, M.Princy, R.Priyanka, **A.Lakshmi**, “3D Volume Calculation of Brain Tumor Using Hog Feature Extraction and Connected Component Technique Connected Component Technique”, *International Journal of Digital Communication and Networks (IJDCN) Volume 1, Issue 3, September 2014*

4.2 CONFERENCE PUBLICATIONS

International Conference

1. Dr.A.Lakshmi, S.Dharshan, S.,Girish Kumar, A.Mohana krishnan presented a paper, "Transforming Images into Words: Real Time Voice Assistance for Visually Impaired People" International Conference on Smart Technologies in Electronics & Photonic Systems (ICSTEPS 2025)held at Ramco Institute of Technology, Rajapalayam, India on April 3rd and 4th , 2025.
2. Dr.A.Lakshmi,Raja keerthika G,Shree Ganga S,Sudeepa R presented a paper, "Vision Based Suspicious Detection and Alert System " International Conference on Sart Technologies in Electronics & Photonic Systems (ICSTEPS 2025)held at Ramco Institute of Technology, Rajapalayam, India on April 3rd and 4th , 2025.
3. A.Lakshmi, N.Bhuvaneshwari, Shashi Kanth Darger presented a paper titled "FPGA FPGA based Reconfigurable Hardware Implementation for Data Classifiers" in International Conference on Sustainable Material and Technologies in VLSI and Information Processing (SMTVIP'24) , Which held on 13&14 Dec 2024, organized by dept of ECE, Kalaslingam Academy of Research and Education, Krishnan koil
4. Perumal.B, Rajesh.V, Saravan Velusamy, Ramalingam.M, A.Lakshmi, presented a paper titled "Climate Responsive Smart Irrigation and Air Quality Monitoring System" in International Conference on Sustainable Material and Technologies in VLSI and Information Processing (SMTVIP'24) , Which held on 13&14 Dec 2024, organized by dept of ECE, Kalaslingam Academy of Research and Education, Krishnan koil
5. A.Lakshmi, Subhash S,Veeranimaran P,Vijayalaxmanasen A presented paper titled, "Critical Equipment Healthness Monitoring And Alert System, in ISTE sponsored 9th International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET'23) organized by Karpagam Institute of Technology, Coimbatore May 5&6, 2023
6. Lakshmi, A. Elavarasi, S. Abinaya, N.Bhuvaneshwary presented a paper titled, "Analyzing the Performance Metrics of CNN models in classifying the stages of Diabetic Retinopathy", International Conference on Recent Innovations in Computer, Communication and Manufacturing – (ICRICCM 2023) -12,13 April-2023, in Dept of ECE in AAA College of Engineering and Technology, Sivakasi
7. A.Lakshmi, R.Alaguseelvi, A.Elavarasi, K.Loggaa Sri Agitha presented a paper titled, "Design and Analysis of a Slotted Monopole Antenna for Detecting Breast Cancer using Ultra- Wide Band Application" in third International Conference on Applied Science, Engineering, Technology and Management(AICASETM '22)organized by Alpha College of Engineering, Thirumazhisai, Chennai on 23.09.2022.
8. Mrs.N.Thenmozhi, Dr.B.Perumal, **Dr.A.Lakshmi** presented a paper titled,"Reduction of Noise in PET Brain Image Using Filtering Techniquet" in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
9. Muthuvel A, Arun Prasath. T, **Lakshmi A**, Pallikonda Rajasekar .M presented a paper titled "CNN based classification of brain Abnormalities in MRI using Adaptive Deep Wavelet Encoder (ADWE) " in International Conference on Communication and Computing Technologies for Sustainable Development (ICCCTSD 2022) organized by Department of Electronics and Communication Engineering, Sri Krishna College of Technology, Coimbatore, on 25.02.2022 & 26.02.2022
10. **Dr.A.Lakshmi**, Ramasuresh M, Vishnu T, presented a paper entitled, " Sentimental Analysis On Review Comments Of Social Media Post Using Machine Learning " in

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International Conference on Engineering and Innovation research ICEIR '2022, Kathir College of Engineering, Coimbatore on 25th May 2022.

11. **A.Lakshmi**, Mr.Muthuvel Arumugam, “Detection And Classification Of Abnormalities In Brain MRI Cells using DWA & CNN” INTERNATIONAL CONFERENCE ON RECENT TRENDS IN GREEN CHEMISTRY & MATERIAL SCIENCE (RTGCMS-2020) MSEC- ISBN-978-93-5396-914-1 (**Awarded best paper**)
12. **A.Lakshmi**, Pasupelti Manojkumar, P.Vikas Charan, S. Ravi Teja, S.A. Sohel Basha, “Intelligent Automatic Speed Control And Accident Avoidance System For Vehicle Using Arduino” "International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th to 20th June 2020, School of Electronics and Electrical Technology, Kalasalingam Academy of Research and Education
13. **Dr.A.Lakshmi**, Dhanusha P.B, Jeelson K James, “Automatic Chalk dust Accumulator For Classrooms”, International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th To 20th June 2020, School Of Electronics And Electrical Technology, Kalasalingam Academy Of Research And Education.
14. **Dr.A.Lakshmi**, Dhanusha P.B Er.Sreekala Ks, Elizabeth Liza Mathew, “Project Soli”, International Conference On Automation, Signal Processing And Energy System (ICASE) 2020, 19th to 20th June 2020, School of Electronics and Electrical Technology, Kalasalingam Academy of Research and Education
15. **A.Lakshmi**, K.Arunkumar, S.Gowtham, M.Manoj Kumar, “ Automatic Recognition of Sign Boards Using MYRIO”, International Conference On Automation and Computing Technologies (ICACT '18), Vellammal Institute of Technology, Thiruvallur District,17th March 2018.
16. **A.Lakshmi**, Priyadharshini, Surya and Thulasi, “ Brain Tumor Classification in MRI Using Neural Network With Cuckoo Search Optimization”, 2nd International Conference on Modelling Simulation and Control (ICMSC 2017), Karpagam College of Engineering, Coimbatore, 1st and 2nd April 2017.
17. **A.Lakshmi**, V.Priyadharshini, M.Saranya,R.Priyadharshini, “Development of EEG system used for Classification of Brain wave Disorders”, International Conference on Emerging Trends in Electronics Communication and Computing Technology (ICONTECH-2016), Dept of ECE, SCSVMV University, Kanchipuram, 5th&th May 2016.
18. **A.Lakshmi**, T.Arivoli, “Performance Analysis of ANFIS based Brain Tumor detection Algorithm”, 2nd International Conference on Electrical, Electronics & Computer Engineering (ICEECE-16), Vivekananda College of Engineering for Women , Tiruchengode, Namakkal District, Tamilnadu,22nd and 23rd March 2016.
19. **A.Lakshmi**, S. Sharmila,S.Ramya,S.Selvapriya, “Implementation of GPS and Sensor Assisted System for Secure Navigation of Fisherman”, International Conference on Advance Research in Technology and Engineering (ICARTE '15) , Sri Ranganathar Institute of Engineering and Technology, Athipalayam, Coimbatore, on 31.05.2015.
20. **A.Lakshmi**, T.Arivozhi, S.Sathiya, “ Detection of tumor in Brain MRI using SVM classifiers”, IEEE International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS '15),Dept of ECE, Karpagam College of Engineering, Coimbatore, 19th& 20th March , 2015.
21. Nithish.R,Maheswaran.S, Nithyaraja.B, **A.Lakshmi**, “Image similarity Retrieval Method for Brain MR Images Based on Uncertain Location Graph”, at International

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- Conference On Modelling, Simulation And Control (ICMSC'15), Dept of Mechanical, Karpagam College of Engineering, Coimbatore, 15th and 16th October 2015, ISBN: 978-9, PP 1125-1130,
22. S.KalimuthuPandian, **A.Lakshmi**, “Securable Image Compression using SPIHT Algorithm” International Conference on Electronics and Communication Information, systems 2012 (ICECI-12), Kalasalingam University, Krishnankoil, 2nd& 3rd Nov 2012.
 23. **A.Lakshmi**, J.Selvakumar, Dr.T.Arivoli, “ Extraction of Gliomas by Combing K-means and Fuzzy C-means Algorithm” International conference on Emerging Trends in Computer Communication Technologies (EMICS 12),Maria College of Engineering and Technology,Attoor, 16th& 17th Feb 2012.
 24. **A.Lakshmi**, R.Radhakrishnan, “Sniff based Scheduling Algorithm for Intra piconet” International conference on Emerging Trends in Computer Communication Technologies (EMICS 12),Maria College of Engineering and Technology, Attoor, 16th& 17th Feb 2012.

NATIONAL CONFERENCE

1. **Dr.A.Lakshmi**, Balaji Raja. K, Dinesh. R presented a paper entitled “ IOT based milk monitoring system for detection & Milk Adulteration ” in 2nd National Conference on Recent Trends in Engineering, Science and Management (RTESM-KCET 2022 organized by Kurinji college of Engineering and Technology, Tiruchirappalli on 9th June 2022.
2. **A.Lakshmi**, V.Velmurugan, S.B.Vignesh, A.Surya, “ Announcement of Municipality Water Availability”, National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.
3. **A.Lakshmi**, R.Preethi, B.Mariammal, Chandrasekar, Nandhini, Nagalakshmi, “ Nature Dye Extraction From Fruits as a Photosensitized in Dye Sensitized Solar Cell Using PIC Microcontroller”, National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.
4. **A.Lakshmi**, Y.Himaja, P.Vaishnavi, C.MohanaTeja, “Atrificial Obstacle Detection System For Blind People”, National Conference on VLSI, Optical Communication, Image Processing, Communication and Embedded System (VOICE '2018), Department of Electronics and Communication Engineering, KARE, 12th and 13th April 2018.
5. N.Pothirasan, M.PallikondaRajasekaran, **A.Lakshmi**, M.Manikandan, K.Deepan Chakaravathy, A.Leo Prince, “TRASH CAR”,3rd National Conference on Recent Trends in Ubiquitous computing and Communication Technology, Bannari Amman Institute of Technology, Sathya Mangalam, 9th and 10th Dec 2016.
6. **A.Lakshmi**, S.Priyadharshini, V.Priyadharshini, Saranya, “Analysis of Brainwave Disorders with Noise Removal Techniques using LABVIEW and MATLAB” National Conference on VLSI Design and Signal Processing NCVSP '16, Kalasalingam University, 18th March 2016.

7. **A.Lakshmi**, M.Raghavi, M.Princy, R.Priyanka, “3D Volume Calculation of Brain Tumor Using Hog Feature Extraction and Connected Component Technique ”, Second National Conference on Advancements and Future Trends in VLSI Design (NCVD 2014), Kalasalingam University, 26th September 2014.
8. **A.Lakshmi**, R.PounRaja, K.Raghavan, “MRI Brain Image Segmentation Using Supervised classifiers (SVM and RVM)”, Second National Conference on Advancements and Future Trends in VLSI Design (NCVD 2014), Kalasalingam University, 26th September 2014.
9. **A.Lakshmi**, S.Nivedha, T.Nizantha, M.Priya, “ A Novel approach to MRI Brain Tumor Segmentation using FCM and MFCM”, National conference on Emerging Communication Trends(NCECT-2014), P.S.R Engineering College, Sivakasi, 21st and 22nd March 2014.
10. **A.Lakshmi**, R.Karthik, S.AshokRuban, K.MuthuSelvam, “Invariant Face Recognition using Markov Random Fields”, National Conference on Communication Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.
11. **A.Lakshmi**, S.Vijayagurunathan, A.Praveen, S.Venkadeshwaran, “Security Against Insider Attacks in Wireless Mesh Networks” National Conference on Communication Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.
12. **A.Lakshmi**, Dr.T.Arivoli, R.Vinupriyadharshini, “Curve let Based Brain Magnetic Resonance Image De noising” National Conference on Communication Systems and Signal Processing (NCCSSP '13), Kalasalingam University, 19th Oct 2013.
13. S.KalimuthuPandian, **A.Lakshmi**, “SPIHT Algorithm based securable Image Compression” National Conference on Copulation of Trends in Information, computer and Communication Engineering, PSN Engineering College, Melathediyoor, Tirunelveli, 9th April 2013.
14. **A.Lakshmi**, J.Selvakumar, Dr.T.Arivoli, “Segmentation of Brain MR Images for Tumor Extraction by Combining K-means Clustering and Fuzzy C-means” National conference on VLSI , Embedded Communication System (NCVEC'12), Kalasalingam University, Krishnankoil, 24th& 25th Jan 2012.
15. **A.Lakshmi**, R.Radha Krishnan, “Sniff based Polling and Scheduling Algorithm for Intrapiconet ” National conference on VLSI , Embedded Communication System (NCVEC'12), Kalasalingam University, Krishnankoil, 24th& 25th Jan 2012.
16. **A.Lakshmi**, Saravanan.B, B.Perumal, “Two-Hop Information With Routing Protocol to Enhance the QoS of Real time Packet Delivery for WSN”, National Conference on Emerging Trends in Electronics & Communication Engineering (E-COM '11), Mohamed Sathak Engineering College, Kilakarai on 5th Apr- 2011
17. **A.Lakshmi**, Saravanan.B, Ramesh. V, “Two-Hop Neighborhood Routing Protocol to Enhance the QoS of Real time Packet Delivery for WSN”, Second National Conference on Information Processing, Communication Networks and Embedded System -2010 (NICE), Acharya Institute of Tech, Bangalore on 22nd and 23rd Dec- 2010
18. **A.Lakshmi**, A.SivanandhaRaja “Error Monitoring for Optical Network Services”, National Conference on Technology Innovations in Electrical Systems (TIES-2007), PET Engineering College, Vallioor on March 21st and 22nd , 2007
19. **A.Lakshmi**, A.SivanandhaRaja “Error Monitoring for Optical Network Services”, National Conference on Advanced Communication Techniques (NCACT-'07), A.C. College of Engineering and Technology, Karaikudi on 29th and 30th , 2007

4.3 Book/Book chapter publications

1. B. Perumal, Pallikonda Rajasekaran, A. Lakshmi, V. Rajesh, Priya R. Krishna, Saravanan Velusamy, “Development of plant health monitoring device” , 1st Edition A Study on Next-Generation Materials and Devices 2025, eBook Published 29 September 2025, CRC Press, DOI <https://doi.org/10.1201/9781003675259>, Pages428, eBook ISBN9781003675259.
2. B. Perumal, A. Lakshmi, V. Rajesh, H. M. Ramalingam, Saravanan Velusamy, Priya R. Krishna, “Implement door unlocking by using an RFID enabled ATM card system” , 1st Edition A Study on Next-Generation Materials and Devices 2025, eBook Published 29 September 2025, CRC Press, DOI <https://doi.org/10.1201/9781003675259>, Pages428, eBook ISBN9781003675259.
3. N. Thenmoezhi, B. Perumal, A. Lakshmi, Pallikonda Rajasekaran, Kottaimalai Ramaraj, Arunprasath Thiyagarajan, “Reduction of noise in multimodal brain images using adaptive filtering techniques” , 1st Edition A Study on Next-Generation Materials and Devices 2025, eBook Published 29 September 2025, CRC Press, DOI <https://doi.org/10.1201/9781003675259>, Pages428, eBook ISBN9781003675259.
4. A.Lakshmi, N.Bhuvanewari, Shashi Kanth Darger "FPGA based Reconfigurable Hardware Implementation for Data Classifiers" 1st Edition Sustainable Materials and Technologies in VLSI and Information Processing, Taylor & Francis, 23rd May 2025, ISBN-9781003641551.(Scopus Indexed)
5. Perumal.B, Rajesh.V, Saravan Velusamy, Ramalingam.M, A.Lakshmi, "Climate Responsive Smart Irrigation and Air Quality Monitoring System" 1st Edition Sustainable Materials and Technologies in VLSI and Information Processing, Taylor & Francis, 23rd May 2025, ISBN-9781003641551. (Scopus Indexed)
6. Dhanusha P B, A. Muthukumar, A. Lakshmi and Shyamraj R., "Super-resolution of Retinal Fundus Images using a Modified Auto-encoder Architecture with Skip Connections", 1st Edition Sustainable Materials and Technologies in VLSI and Information Processing, Taylor & Francis, 23rd May 2025, ISBN-9781003641551.(Scopus Indexed)
7. Mrs.N.Bhuvanewary, A.Lakshmi, “A New perspective of Engineering Teaching Methodology for Innovation”, E-Learning, E-Business and E-Management in Contemporary World, LAP LAMBERT Academy Publishing
8. Dr. A. Lakshmi, Dr. M. Pallikonda Rajasekara, Dr. T. Arivoli, S. Jeevith, N.Bhuvanewary R. Vinupriyadharshini, “PERFORMANCE ANALYSIS OF BRAIN TISSUE SEGMENTATION AND CLASSIFICATION USING SOFT COMPUTING TECHNIQUES, which has been published in the collection “Ingeniería y Tecnología” on March 30 2022, in the www.3ciencias.com.ISBN: 978-84-124943-4-1. (Available in Web of Science)
9. M.Dhavanth, Dr. A. Lakshmi, “Ameliorating Bandwidth Using Next Generation Synchronous Digital Hierarchy ” book chapter in SUSTAINABLE DEVELOPMENT IN ENGINEERING AND TECHNOLOGY which has been published in the collection “Ingeniería y Tecnología” on March 30 2022, in the www.3ciencias.com.ISBN: 978-84-124943-4-1. (Available in Web of Science)
10. Dr. A. Lakshmi, Mahidhar Nelapati, Manoj Muddaluru, Kalyan Kommi, “ACCIDENT AVOIDING SYSTEM USING MULTISENSORS IN LABVIEW”

book chapter in SUSTAINABLE DEVELOPMENT IN ENGINEERING AND TECHNOLOGY which has been published in the collection “Ingeniería Tecnología” on March 30 2022, in the web www.3ciencias.com. ISBN: 978-84-124943-4-1. (Available in Web of Science)

5. Funded Projects (on going)

S.No.	Title of the project	Funding Agency	Duration	Amount (In Lakh)	Status
1.	VISION BASED SUSPICIOUS DETECTION & ALERT SYSTEM	FAER	6months	0.1	Completed
2.	REAL TIME IMPLEMENTATION OF OBJECT DETECTION AND ADVERSARIAL IMAGE TO TEXT CONVERSION USING OCR WITH ENHANCED VOICE ACCESSIBILITY TO AID VISUALLY IMPAIRED PEOPLE	Niral Thiruvilla	6months	0.1	Completed
3.	Printed Circuit Board Design & Analysis: From an idea to produc	Grant of Partial Financial Assistance for Workshop-TNSCST	3 days	0.2	Completed
4.	COST EFFECTIVE DETECTION SYSTEM FOR DIABETIC RETINOPATHY.	MSME IDEA Hackthon 2. INC22BTN009633- Proposal has been approved during 4th PMAC Meeting of MSME Innovative Scheme held on 26.06.2023 Minister of MSME on the occasion of International MSME Day at Vigyan Bhawan, New Delhi on 27.06.2023,	2 year	13.10 Lakh	In Progress
5.	DEVELOPMENT OF COST EFFECTIVE AUTOMATED MACHINE FOR ONION GRADING AND PRESERVATION	Ministry of consumer Affairs, Food and Public Distribution, AICTE, Ministry of Education’s Innovation cell, Ministry of Education Government of	6 months Phase 2- Ideation to PoC Phase 3-	Fund amount Rs 75000+ students prize 25,000 Fund amount	Completed Completed

Updated as on 20.04.2026

		India	PoC to Product development	Rs 5 lakh+ students prize 50,000	
6.	One day Skill development training program for Self- Employment of House wives” on 11.05.2022. Amount: ACK Number: NCW/1202112266134/CCW/2022-2023/59. Reference No. :- NCW/3300060267813	National Commission for Women	1 Day	0.8	Completed

Funded Projects (Applied)

1. Dr.A.Lakshmi and Dr.S.Vairaprakash submitted a proposal “AI-Powered Vision System for Suspicious Behavior Detection and Real- Time Alerts” under the Scheme of Cyber Security Group Meity on 30.09..2025 . Total Cost of the proposal is 72,30,000/- (**Submitted**)
2. Dr.A.Lakshmi, submitted a proposal “Adaptive Graph Signal Processing on Optical–Biomedical Sensor Networks for Real-Time Health Monitoring” under the Scheme of ANRF- Matrics on 15.07.2025 . File Number:ANRF/ARGM/2025/002435/MTR Reference No. :532025003310, Amount: 5,00,000/- (**Under Review**)
3. Dr.A.Lakshmi, Dr.R.Rajalakshmi and Dr.S.Vairaprakash submitted a proposal “A Real-time Indoor Air Pollution Monitoring and Control System using Deep Learning to Mitigate Sick Building Syndrome” under the Scheme of MSME 5.0 on 10.07.2025 . Mentor for the Proposal is Dr.C.Arunachalaperumal Prof. and Head Department of Electronics and Communication Engineering Ramco Institute of Technology, Rajapalayam. Reference No. INC25ETN072291, amount: 15,00,000/-
4. Dr.S.Vairaprakash(PI),Dr.A.Lakshmi(Co-PI) Submitted a Project proposal entitled "Design and Development of an integrated AI-Enabled, Multimodal Human-Machine Interface Elevator System for Disabled and Elderly Users Using Voice Recognition and Eye-Gesture Control" Under AICTE- RPS Scheme with File No:RPS-1-1,423258331-2025-3982 total cost of Rs.31,20,000 on 31.07.2025 (Under Review)
5. Dr.A.Lakshmi (PI), Dr.S.Vairaprakash (Co-PI) and Mr.B.Kannan submitted project proposal titled " RES-HSFC-2024-001:Health monitoring system and alert generation using AI/ML" under the scheme of ISRO RESPOND, submitted on 13.02.2025, Amount :Rs 59,63,800/- (**Submitted**)
6. Dr.S.Vairaprakash (PI),Dr.A.Lakshmi (Co-PI) submitted project proposal titled "RES-NRSC-2024-005: Enhanced Neural Network for classification of Hyperspectral Imagery using ensembled models.".under the scheme of ISRO RESPOND, submitted on 14.02.2025, Amount :Rs 34,45,600/- (**Submitted**)
7. Dr.S.Vairaprakash (PI),Dr.A.Lakshmi (Co-PI) submitted project proposal titled “Development of a GPS-Enabled Robotic Vehicle for Real-Time Detection of Landmines and Buried Metal Objects in Remote and Hazardous Area” Yukthi Innovation Challenge. (**Submitted**)
8. D.Jaikrishna (IV ECE), R.Dharshan(IV ECE), P.Sivaharini Priya (IV MECH),submitted a proposal “Aether Helmet” – Lightweight, Adaptive, Comfortable and Cost Effective” under the Scheme of AICTE Productization Fellowship(APF) on 30.06.2025. Mentor for the Proposal is Dr.A.Lakshmi Professor Electronics and Communication Engineering Ramco Institute of Technology, Rajapalayam. (**Submitted**)
9. Hariprasath V, Abishek A submitted a proposal “AI-Powered Vision System for Suspicious Behavior Detection and Real-Time Alerts” under the Scheme of MSME 5.0 on 11.07.2025 . Mentor for the Proposal is Dr.A.Lakshmi Prof/ Department of

- Electronics and Communication Engineering Ramco Institute of Technology, Rajapalayam. File Number: ----. Reference No. :- --- (**Submitted**)
10. V.Hari Prasath, A.Lakshmi, “Advancements in Non-Invasive Method A triad approach for Diabetic Patients.” Submitted proposal for MSME Idea 4.0 . File no:INC24DTN050253.(**Rejected**)
 11. S.DHARSAN, S.GIRISHKUMAR, .MOHANAKRISHNAN , How might we develop an AI or OCR solution to digitize and convert handwritten, old registered documents into a readable and accessible format in regional languages improving public access and readability of historical records”, Naan Mudhalvan Niral Thiruvizha 2.0 Student Project Proposal scheme on 10.03.2025. NMNTSTD9536048 (**Idea Shortlisted and Completed**). Dr.A.Lakshmi Prof/ECE, is the Project guide.
 12. S.DHARSAN, S.GIRISHKUMAR, .MOHANAKRISHNAN A.Lakshmi, “ REAL TIME IMPLEMENTATION OF OBJECT DETECTION AND ADVERSARIAL IMAGE TO TEXT CONVERSION USING OCR WITH ENHANCED VOICE ACCESSIBILITY TO AID VISUALLY IMPAIRED PEOPLE”, TNSCST Student Project Proposal scheme on 09.09.2024. Application No.EEE1967 (**Rejected**)
 13. Ms. RAJAKEERTHIKA G , Ms. SHREE GANGA S and Ms. SUDEEPA R) studying Final year ECE in Ramco Institute of Technology submitted Project Proposal to the FAER Scholar Award for the academic year 2024-2025. Dr.A.Lakshmi Prof/ECE, is the Project guide for the project titled, " VISION BASED SUSPICIOUS DETECTION & ALERT SYSTEM" on 10.09.2024 (**Accepted and Completed**)
 14. Dr.A.Lakshmi, Dr.R.Rajalakshmi submitted the Project Proposal Titled, "Trustworthy AI-Driven Reaction-Diffusion Modeling for Glioblastoma Progression Prediction" under WISE KIRAN, Cognitive Science Research Initiative(CSRI), Department of Science and Technology on 06.06.2024, Proposal ID- TPN / 108968, File No: DST/CSRI/2024/526, Amount 38,19,000/-/(Under Review)
 15. Dr.A.Lakshmi, Mr.G.Sivakumar submitted the grant of Partial Financial Assistance for Workshop titled "Printed Circuit Board Design & Analysis: From an idea to product" to TNSCST Application for the grant of Partial Financial Assistance scheme on 27.04.2024.Amount: Rs 20,000/ (**Accepted & Completed**)
 16. Dr.A.Lakshmi (PI), Dr.C.ArunachalaPerumal (Co-PI) and Dr.S.Vairapraksh (Co-PI) submitted project proposal titled " AI-Enhanced Predictive Modeling for Glioblastoma Progression in Children" under the scheme of Investigator-Initiated Research Proposals for Small Extramural Grants, Indian Council of Medical Research (ICMR),Department of Health Research (Ministry of Health and Family Welfare) - .Proposal ID: IIRPSG-2024-01-04263 Amount :Rs.10,627,600/-(**Submitted**).
 17. Dr.A.Lakshmi, A.Kapil, K.Karanan submitted the project proposal titled "REAL TIME COLLEGE BUS TRACKING SYSTEM USING ANDROID APP BY GPS" to TNSCST Student Project Proposal scheme on 07.10.2023. Application No.11511. (**Submitted**).
 18. Dr.G.Kanthimathi- PI, Dr.G.Deepa Lakshmi Co-PI, **Dr.A.Lakshmi Co-PI** submitted a proposal “Embedded Based Industrial Effluent Treatment Using Biosynthesized Nano-adsorbent” under the Scheme of CSIR- ASPIRE on 25.04.2023. Proposal_ID:55555,Amount: 25,35,000 INR(**Rejected**)
 19. **Dr.A.Lakshmi**- PI, submitted a proposal “A Robust Compartmental Stochastic Approach for Forecasting the Long-Term Trajectories of H3N2 Pandemics and Computation of Instantaneous Reproduction Number” under the Scheme of SERB-MATRICES on 28.03.2023. Reference No. : 332022001076, File Number: MTR/2023/001044, Amount: 2 lakhs/ year (**Rejected**)

20. **Dr.A.Lakshmi**- PI, Dr.S.Vairaprakash- Co-PI submitted a proposal “A Deep Learning Model for Real-time Monitoring And Controlling of Air Pollution to reduce the impact of Sick Building Syndrome in School Children” under the Scheme of SERB-CRG on 15.03.2023. Reference No. : 182023008211, File Number: CRG/2023/004471, Amount: 23,09,792 INR(**Rejected**)
21. **Dr.A.Lakshmi** , PI, Dr.S.Vairaprakash- Co-PI “A Robust Deep Learning Model for Rapid Detection and Diagnosis of Virus families from Pathogens”.submitted under **POWER** scheme on September 2022.Reference No: File Number: SPG/2023/000070 (**Rejected**)
22. **Dr.A.Lakshmi**, Ms. A.Elavarasi (953619106016), Ms. S.Abinaya (953619106001), “Deployment of Embedded Machine Learning in Medical devices to detect Diabetic Retinopathy (DR) and prevent early blindness” TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY(**TNSCST**), Amount:Rs 10,000/-, 27.08.2022(**Rejected**)
23. Dr.A.Lakshmi,ASCP/ECE Dr.V.Anusuya ASCP/CSE and Dr.L.Sathikala ASCP/Maths submitted a proposal “One day Skill development training program for Self- Employment of House wives” under the Scheme of Career Counselling Workshop of National Commission for Women on 11.05.2022. Amount: Rs 80,000/- ACK Number: **NCW/1202112266134/CCW/2022-2023/59**. Reference No. :- **NCW/3300060267813.(Approved & Completed)**
24. Dr. Vairaprakash , Dr. LAKSHMI A , Mr.L.K.Balaji Vignesh, "INNOVATION SKILL DEVELOPMENT IN BLOOMING SCIENCE AND TECHNOLOGY FOR RURAL SCHOOL CHILDREN" Submitted to Division :**NCSTC**, Programme or Scheme : **CHILDREN CENTRIC OUTREACH PROGRAMME**, Amount : 31,45, 516, PFMS Unique Code : **TNVR00004991 (under review)**
25. Dr.S.Vairaprakash (PI), Dr.A.Lakshmi (CO PI) submitted a proposal “Smart Farming and Irrigation System using Web of Things data collection Technique”, under the Scheme of **BIRAC-BIG Partner** scheme on 20.02.2022. Amount is Rs.30.14 Lakhs. File Number: **BT/TEMP14768/BIG-20/22. (under review)**
26. Dr.A.Lakshmi, Miss. M.Muthumeena- II year ECE, Miss. B. Sanjogitha- II year ECE, Mr. S.Balaji- III year ECE submitted a proposal “IoT based saline monitoring system” under the Scheme of **MSME** on 09.04.2022 . Mentor for the Proposal is Dr.S.Periyanyagi Prof. and Head Department of Electronics and Communication Engineering Ramco Institute of Technology, Rajapalayam. File Number: **INC22ATN002836**. Reference No. :- **IDEATN004159(Rejected)**

11. Ph.D. guidance

Received Anna University Guideship on 25.02.2023

Sl.No	Scholar name	University	Topic	Status
1.	Ms.V.Srilekha	Anna University	Deep Learning-based Bleeding Classification and Segmentation in Video Capsule Endoscopy	Attended Writing Test on 31.10.2025

Updated as on 20.04.2026

2.	Ms.M.Nandhini	Anna University	Graph-Based Real-Time Health Monitoring in Optical-Biomedical Sensor Networks	Attended Writing Test on 31.10.2025
3.	Mrs.N.Bhuvaneshwary	Kalasalingam Academy of Research and Education	A Python Integrated Verification Environment For SOC Verification Methodologies	Awarded on 25 th September 2023.
4.	Mrs.Dhanusha P B	Kalasalingam Academy of Research and Education	Super Resolution Of Retinal Fundus Images Using Deep Learning Methods	Comprehensive Exam completed and pursuing Ph.D
5.	Mr. A.Muthuvel	Kalasalingam Academy of Research and Education	Detection And Segmentation Of Abnormalities In Brain MRI	Comprehensive Exam completed and pursuing Ph.D
6.	Mrs.NThenmoezhi.	Kalasalingam Academy of Research and Education	Efficient Image fusion Using Multi Scale Decomposition and Enhanced BAT Optimization for MRI and CT Brain Images	Awarded on 21 st September 2024

7. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	R & D Conclave 2025 for faculty members and researchers	Research Council at Ramco Institute of Technology	23.12.2025	23.12.2025
2.	FDP on 5G and Beyond wireless communication challenges	Electronics & ICT Academy, MNIT Jaipur	24.11.2025	3.12.2025

3.	Extramural Lecture Series (ELS)- From Global Engineering Education Initiative to a Local Implementation – Case Turku University of Applied Sciences	Ramco Institute of Technology and NITTTR ,Chennai	14.11.2025	14.11.2025
4.	National Level FDP on Computational Intelligence and Data Science	Department of Mechanical And Maths Ramco Institute of Technology	09.06.2025	13.06.2025
5.	Five Day-National Level Faculty Development Programme on Leveraging Digital Library Resources for Enhanced Teaching and Research	Nehru Institute of Technology	26.05.2025	30.05.2025
6.	Five Day-National Level Faculty Development Programme on Competency Based Engineering Education	Department of EEE, Ramco Institute of Technology	10.02.2025	13.02.2025
7.	Five Day-National Level Faculty Development Programme on Importance of Artificial Intelligence in Robotics	Indian Institute of Information Technology Design and Manufacturing Kurnool	20.01.2025	25.01.2025
8.	Faculty Entrepreneurship Development Program	Funded by Department of Science and Technology, Ministry of Science and Technology, Govt of India, organized by Kalasalingam Academy of Research and Education	14.08.2023	26.08.2023
9.	Guidelines To Write Quality Research Papers & Successful R&D Projects	RIT	08.07.2023	08.07.2023
10.	Applications of MATLAB in Research Perspective	RIT	21-06-2023	23-06-2023
11.	UHV- Phase I - Inculcating Universal Human Values in Technical Education	AICTE	28-02-2022	04-03-2022

12.	Various Funding Opportunities in DST for Engineering Institutions	Ramco Institute of Technology, Rajapalayam 626117.	6-02-2022	6-02-2022
13.	Enabling the professional development of faculty on IR 4.0 Technology (AI/ML)	Ramco Institute of Technology, Rajapalayam.	24.01.2022	29-01-2022
14.	Webinar on Funding Opportunities	Kalasalingam Academy of Research and Education	21-01-2022	21-01-2022
15.	International Webinar on " Immunizing cyber security	University College of Engineering, Thirukkuvalai	12-01-2022	12-01-2022
16.	ATAL FDP on ""Industrial Internet of Things (IIoT) using LabVIEW"	KLE Technological University Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi	3-01-2022	7-01-2022
17.	2nd International Conference on New Computer Science and Engineering Trends(NCSET2021)	World Advanced Science	30.12.2021	30.12.2021
18.	Two days online Workshop on "Deep Learning Networks for Image Processing"	IEEE India Council	22-12-2021	23-12-2021
19.	International Workshop on Innovative Techniques in Digital Media Productions with Mobile Apps	Sathyabama Institute of Science and Technology, Chennai	22-12-2021	22-12-2021
20.	ATAL FDP on "Advance Statistical & Machine Learning Models (ASMLM-2021)"	Indian Institute of Information Technology Ranchi	15.12.2021	19.12.2021
21.	"Tech-Talk: Amazon Cloud Web Services (Aws)"	Department of Information Technology, Kalasalingam Academy of Research and Education.	06-09- 2020	06-09- 2020
22.	AI Techniques in Power System	Guru Nank Technical Institution, Hyderabad	19-07-2020	19-07-2020

23.	Collaboration between Robots and Vision	Pantech E learning	15-07- 2020	15-07- 2020
24.	Person Identifier Using Python and Open CV	Andhara Loyola Institute of Engineering and Technology, Vijayawada	14-07- 2020	14-07- 2020
25.	Brain Computer Interface Robot	Mahatma Gandhi Institute of Technology, Hyderabad	12-07-2020	12-07-2020
26.	Explore What is Next in Deep Learning	Nandha Engineering College, Erode	11-07-2020	11-07-2020
27.	Python Programming	Vignana Bharathi Institute of Technology	11-07- 2020	11-07- 2020
28.	Python Programming and its Applications	Pantech E learning	10-07-2020	10-07-2020
29.	Machine Learning Approaches	Institution of Aeronautical Engineering, Hyderabad	09-07-2020	09-07-2020
30.	Deep Learning Technique- CNN, R-CNN	B.V. Raju Institute of Technology	09-07- 2020	09-07- 2020
31.	The Science and Applications on NLP	GKM college of Engineering and Technology	08-07-2020	08-07-2020
32.	Deep learning in Modern Recommendation System	Bhoj Reddy Engineering College for Women, Hyderabad	07-07- 2020	07-07- 2020
33.	Deep learning Using Tensor flow and Keras	Angel Institute of Technology & Design, Goa	06-07- 2020	06-07- 2020
34.	Yoga For Corona Virus	Kalasalingam Academy of Research and Education	21-06-2020	21-06-2020
35.	Webinar On OBJECT DETECTION USING DEEP LEARNING	Raju Institute Of Technology	21-06-2020	21-06-2020
36.	Webinar On MACHINE LEARNING PREDICTIVE ANALYSIS	Maritime Education And Training	20-06-2020	20-06-2020
37.	Webinar On Leadership Talk	Kalasalingam Academy Of Research And Education	20-06-2020	20-06-2020

38.	Machine Learning predictive Analysis	AMET Academy of Maritime Education and Training	20-06- 2020	20-06- 2020
39.	Webinar On WEBINAR ON SMART GRID	Crescent Institute Of Science And Technology	17-06- 2020	17-06- 2020
40.	Clock Domain Crossing Techniques & Clock Dating Design VLSI	Mahathma Gandhi Institute Of Technology	14-06- 2020	14-06- 2020
41.	Leadership Talk	MHRD	13-06- 2020	13-06- 2020
42.	“Recent Trends On Intelligent Things (AI & Iot)	Kalasalingam Academy of Research and Education	11-06- 2020	11-06- 2020
43.	5G Communications	DMI College Of Engineering	10-06-2020	10-06-2020
44.	Python Programming And Industrial Applications	Ethiraj college for women	09-06- 2020	09-06- 2020
45.	Gesture Recognition	Vardhaman college of Engineering	08-06-2020	08-06-2020
46.	Underwater Communication System	Skn Sinhgad Institute Of Technology And Science	08-06- 2020	08-06- 2020
47.	Leadership Talk	Government of India	06-06- 2020	06-06- 2020
48.	Color Image Processing	RVS college of Engineering and Technology	06-06- 2020	06-06- 2020
49.	First Step Towards Solutions	KARE	16-05- 2020	16-05- 2020
50.	“Tech-Talk: Know Your Customer (KYC)”	KAREIT	12-05- 2020	12-05- 2020
51.	“Tech-Talk: Conventional ECM And Cloud Based ECM Infrastructure”	KARE IT	12-05- 2020	12-05- 2020
52.	Introduction To Artificial Intelligence, Machine Learning And Deep Learning	KARE ECE	01-05- 2020	01-05- 2020
53.	Applying Convolutional Neural Network A Deep Learning	Kalasalingam Institute of Technology in association with Pantech E learning	06-02- 2020	06-02- 2020

54.	Attended One Day Workshop On “ Moodle Learning Management System”	IIT, Bombay	15-03-2019	15-03-2019
55.	Attended One Day Workshop On “Geo-Spatial Technologies And Sendai Framework For Disaster Risk Reduction”	Indian Space Research Organisation Department of Space, Govt. of India Dehradun	10-07-2018	10-07-2018
56.	Attended 1 Month Refresher Course On “Pedagogy For Online And Blended Teaching Learning Process”	IIT, Bombay	02-05-2018	24-05-2018
57.	One Month Training Program Infoundation Program In ICT For Education- (FDP101x) And Pedagogy For Online And Blended Teaching Learning Process- (FDP201x)	CSE-KARE/IIT Bombay	08-03- 2018 to 12-04- 2018	03-05-2018 to 30-05- 2018
58.	Two Days Workshop On Antenna Design Using CST Studio	ECE/KARE	31-03- 2018	02-04-2018
59.	20 Days Training Program On IIRS Outreach Programme On Hyper spectral Remote Sensing And Its Applications	Indian Space Research Organisation Department of Space, Govt. of India Dehradun	19-02-2018	13-03-2018
60.	Attended One Day Workshop For Ethics For Research Supervisor	CLT/KARE	22-02-2018	22-02-2018
61.	Seven Days Faculty Development Programme In DIGITAL FILTER DESIGN USING MATLAB AND DIGITAL SIGNAL PROCESSOR As Organizing Secretary	Dept of ECE,CLT, KLU	16-08- 2017 to 19-08- 2017	05-10- 2017 to 07-10- 2017
62.	One Day International Seminar In NANO TECHNOLOGY AND BIOSENSORS	KARE	07-07-2017	07-07-2017
63.	One Day Training Program In Art Of Counseling And Mentoring	CLT/KLU	20-06-2017	20-06-2017

64.	Five Days Faculty Development Programme in Control System And Its Application Using MATLAB As Organizing Secretary	Dept of ECE,KLU	05-12-2016	09-12-2016
65.	Three Days Faculty Development Programme On “GOAL” (Go Ahead And Lead)	Heartfulness Institute, Shri Ram Chandra Mission, Madurai	01-12- 2016	01-12- 2016
66.	Two Days Workshop In Simulation Software For Microwave And Optical Engineering	ECE,KLU	06-10-2016	07-10-2016
67.	National Seminar On “ Research And Employment Opportunities In VLSI Testing & Verification (NSREVTV ’16)	Dept of ECE, KLU	02-04-2016	02-04-2016
68.	One Day Seminar On “NABL Accredited Testing And Calibration”	CLT and Dept of Biomedical Engineering, KLU	19-02-2016.	19-02-2016.
69.	Five Days Faculty Development Programme In 3 Dimensional Stereoscopic Image Processing As Organizing Secretary	Dept of ECE,KLU	25-01-2016	30-01-2016
70.	Two Days Workshop On Hands On Experience In OPTSIM-15	IETE,KLU	18-01-2016	19-01-2016
71.	One Day Workshop On Manuscript Preparation And Publication	CLT,KLU	22-12-2015	22-12-2015
72.	Five Days Faculty Development Programme On “Computational Intelligent Techniques And Their Applications”	Kalasalingam University	08-09-2015	12-09-2015
73.	Three Days Workshop On “Implementation Of Soft Computing Techniques And Their Applications”	IEEE MADRAS SECTION , National Engineering College, Kovilpatti	05-08-2015	07-08-2015
74.	One Day National Seminar On “VLSI Signal Processing”	Dept of ECE, KLU	13-02-2015	13-02-2015

75.	Three Days Faculty Development Program On “Soft Computing And Their Applications”	ECE and EIE Kalasalingam University	21-01-2015	23-01-2015
76.	Two Days Seminar On “Recent Trends In Pattern Recognition And Machine Learning Techniques”	Mepco Schelink Engineering College, Sivakasi	19-09- 2014	20-09-2014
77.	National Workshop On Soft Computing In Image Processing	Kalasalingam University	28-03-2014	29-03-2014
78.	National Workshop On Digital Communication Techniques Using COMMLAB- T	P.S.R. Rengasamy College of Engineering for Women, Sivakasi	31-01-2014	31-01-2014
79.	Faculty Development Program On Wireless Sensor Network	Kalasalingam University,	09-07-2013	13-07-2013
80.	Workshop On Life Skill Management	Kalasalingam University	01-02-2013	01-02-2013
81.	Seminar On research And Consultancy Services	Kalasalingam University	30-12-2011	30-12-2011
82.	Workshop On Reconfigurable Technology And Its Applications	Thiagarajar College of Engineering	21-10-2011	21-10-2011
83.	Workshop On LABVIEW Programming	Kalasalingam University	17-09-2011	17-09-2011
84.	Faculty Development Program On Optical Communication – EC1402	College of Engineering Guindy Campus, Anna University	15-06-2009	21-06-2009
85.	Workshop On IBM Software- Free Open Software	Arulmigu Kalasalingam College of Engineering	16-08-2007	17-08-2007

8. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	One day international Webinar on “AI Innovations in Smart Healthcare Systems”	Coordinator	10.04.2026	10.04.2026
2.	Two day International conference on Smart Technologies in Electronics and Photonics Systems (ICSTEPS 2025)	Convener, Dept of ECE	3.4.2025	4.4.2025

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3.	Three days National Level Workshop on “Printed Circuit Board Design and Analysis: From Idea to Product” for II year & III year students	Dept of ECE & TNSCST Sponsored (Rs 20,000/-)	26.02.2025	28.02.2025
4.	“Mantraz-Electronic Circuits” for II year ECE students	Dept of ECE in association with IETE	8.05.2025	8.05.2025
5.	Workshop on the topic “Hands-On Circuit Design and Simulation with Proteus Software” III Year ECE students	Dept of ECE	16.11.2024	16.11.2024
6.	“Balancing Academic Expectation with Mental and Emotional well-being” for IIIrd year Students from all branches	Dept of ECE , IETE , Chellamuthu Trust and Research Foundation, Madurai.	06.4.2024	06.4.2024
7.	Workshop on “ IoT Security” for III year ECE Students	Dept of ECE in association with IE(I)	28.10.2023	28.10.2023
8.	One day National Level Workshop on Journal Paper Writing	Dept of ECE in association with Research and Development Center of RIT	10.02.2023	10.02.2023
9.	One day Skill Development and training programme for Self-employment of House Wives	RIT funded by National commission for Women (NCW)	05.11.2022	05.11.2022
10.	One day Hands on session for “Working with different Color Modes for Web/Social Media / Print Media”	Dept of ECE, RIT IQAC & ISO	28-02-2022	28-02-2022
11.	One week FDP in “ Artificial Intelligence and Deep Learning”	Dept of ECE, KARE	31-12-2020	07-01-2021
12.	Webinar Innovation to Reality	Dept of ECE, KARE	24-06-2020	24-06-2020
13.	One day Faculty Training Program on Next Generation Networks	Dept of ECE, CLT	19-10-2020	19-10- 2020
14.	One week FDP in “ Let’s play Machine learning with Tensor flow 2.X including Keras”	Dept of ECE, KARE	25-06-2020	01-07-2020

15.	Organizing Committee member in International Conference on Automation, Signal Processing and Energy System (ICAES-2020)	Virtual Conference, SEET, KARE	19-06-2020	20-06-2020
16.	Organizing Committee member in The Virtual International Conference on Innovations in Interdisciplinary Research (VICIIDR -2020)	Virtual Conference, KARE	23-06-2020	24-06-2020
17.	Hands on Workshop Effective and Attractive Documentation using Latex	Dept of ECE, KARE	20-05-2020	20-05-2020
18.	One week FDP in “Recent trends in Wireless and IOT”	Dept of ECE, Elysium Academy	19-05-2020	20-05-2020
19.	Workshop Road Map from Project to Patent	Dept of ECE, KARE	09-03-2020	09-03-2020
20.	Organized two days FDP in “Let’s Play Machine learning with Tensor flow”	Dept of ECE,CLT, KLU	29-04-2019	30-04-2019
21.	Organized Faculty Development Programme on “Machine Intelligence and IoT”.	Dept of ECE,CLT, KLU	02-07-2018	07-07-2018
22.	One day training program for OUT COME BASED EDUCATION as organizing secretary	CLT/KARE	06-04-2018	06-04-2018
23.	Two days National level conference VLSI, Optical communication, Image Processing, Communication System and Embedded system (VOICE’18) as paper scrutinizing committee in charge	Dept of ECE/KLU	12-03- 2018	13-03- 2018
24.	One day training program MENTOR MENTEE as organizing secretary	CLT/KARE	21-06-2017	21-06-2017
25.	Five days FACULTY INDUCTION PROGRAMME as organizing secretary	CLT/KARE	12-06-2017	17-06-2017
26.	Organized Seven days Faculty Development Programme in DIGITAL FILTER DESIGN USING MATLAB AND DIGITAL SIGNAL PROCESSOR as Organizing Secretary	Dept of ECE,CLT, KLU	16 th - 19 th - 08-2017	05 th -07 th -10-2017

27.	Organized Five days Faculty Development Programme in Control System and its application using MATLAB as Organizing Secretary	Dept of ECE,KLU	05-12-2016	09-12-2016
28.	Organized seven days Faculty Development Programme in Digital Image Processing as Organizing Secretary	Dept of ECE,KLU & KIT	06-06-2016	13-06-2016
29.	Organized one day National Conference on VLSI design and Signal Processing (NCVSP '16) as Stage and Session management	IETE	18-03-2016	18-03-2016
30.	Organized one day workshop in Women Entrepreneurship Development Program	CLT,KLU	11-02-2016	11-02-2016
31.	Organized Five days Faculty Development Programme in 3 Dimensional Stereoscopic Image Processing as Organizing Secretary	Dept of ECE,KLU	25-01-2016	30-01-2016
32.	Organized Five days Faculty Development Programme on “Computational Intelligent Techniques and their Applications”	Dept of ECE & EEE, KLU	08-09-2015	12-09-2015
33.	Organized Three days Faculty Development Program on “ Soft Computing and their Applications”	Dept of ECE & ICE	21-01-2015	23-01-2015
34.	Organizing one day National Conference on Communication Systems and Signal Processing (NCCSSP) as Organizing Secretary	IETE,Vi-Micro system, KLU- Alumni	19-10-2013	19-10-2013
35.	Organized Five days Faculty Development Programme in Wireless Sensor Network as Organizing Secretary	Dept of ECE, KLU	09-07-2013	13-07-2013
36.	Organized one day National Workshop on Life Skill Management as Coordinator	CLT,KLU	03-02-2013	03-02-2013

37.	Organized Two Days International Conference on Electronics, Communication and Information Systems- ICECI 2012 as Stage Management In charge.	DRDO, BARC, BRNS	02-11-2012	03-11-2012
38.	Organized two day National Workshop on Advanced FPGA design as Organizing Secretary	Enixs Technology	28-02-2012	29-02-2012
39.	Organized a National Level Technical Conference on Advancement and Future Trends in VLSI Design 'NCVD-2011' as Registration Committee In charge.	--	30-03-2011	31-03-2011
40.	Organized a National Level Technical Conference, VLSI, Embedded and Communication Systems NCVEC -2012 as Registration Committee In charge.	CSIR, DRDO, ISRO, BRNS, ISTE, IETE	24-01-2011	25-01-2011
41.	Organized a National Level Technical Conference on Recent Trends in communication systems NCRCS-2010 as Scrutinizing Committee In charge.	--	11-03-2010	11-03-2010

9. Online Courses

Sl.No	Course title	University	Date
1.	Advanced Search (Self- Paced)	Scopus Academy	24.1.2025
2.	Vector Calculus for Engineers	The Hong Kong University of Science and Technology- Coursera- 5 week	11.01.2025
3.	Matrix Method	Coursera- 5 week	05.10.2023
4.	IUCEE INTERNATIONAL ENGINEERING EDUCATOR CERTIFICATION PROGRAM-Spring 2023	Indo Universal Collaboration for Engineering Education	9.01.2023 to 30.07.2023
5.	Google Data Analytics Capstone: Complete a Case Study	Coursera- Google Cloud- 4 week	27.06.2023
6.	Share Data Through the Art of	Coursera- Google	24.06.2023

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	Visualization	Cloud- 4 week	
7.	Analyze Data to Answer Questions	Coursera- Google Cloud- 4 week	24.06.2023
8.	Data Analysis with R Programming	Coursera- Google Cloud- 5 week	20.06.2023
9.	Process Data from Dirty to Clean	Coursera- Google Cloud- 6 week	25.04.2023
10.	Prepare Data for Exploration	Coursera- Google Cloud- 5 week	28.03.2023
11.	Foundations:Data, Data Everywhere	Coursera- Google Cloud- 5 week	27.02.2023
12.	Ask Questions to Make Data-Driven Decisions	Coursera- Google Cloud- 4 week	02.02.2023
13.	Reinforcement Learning onramp	Mathworks Training service	01.10.2022
14.	Deep Learning onramp	Mathworks Training service	29.06.2022
15.	Machine Learning for Computer Applications	Electronics and ICT Academies at IIT Roorkee, MNIT Jaipur, NIT Patna, NIT Warangal and PDPM IITDM Jabalpur	21-02-2022 to 04.03.2022
16.	How to peer review a review article	Research Academy-Elsevier	01-02-2022
17.	Structuring your article correctly	Research Academy-Elsevier	31-01-2022
18.	Funding Hacks for Researchers	Research Academy-Elsevier	20-01-2022
19.	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine Coursera	19-01-2022 (4 week)
20.	Discover how metrics can boost funding and networking opportunities	Research Academy-Elsevier	12-01-2022
21.	Successful research grant applications – getting it right	Research Academy-Elsevier	11-01-2022
22.	Machine Learning Onramp	Mathworks Training Services	13-12-2021
23.	MATLAB Onramp	Mathworks Training Services	08-12-2021
24.	Discrete Time Signal Processing	NPTEL	July to September 2016 (20 hours)
25.	Business English Certificate Preliminary	Cambridge English Language Assessment	July 2015

10. Patents filed/ awarded: 2

- Design and Fabrication of Child Rescue Machine from Tube Wells with Weight Constraint Using Sensors and Wireless Camera. Date of Filing: 18/07/2020. Application No. 202041030735 A.

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- Dr.R.Rajalakshmi, Dr.A.Lakshmi, Dr.B.DeepaLakshmi, Mrs.G.Subhashini, Ms.L.Krishnakumari, Ms.R.Chandralekha published a patent with the title “Contactless ATM Monitoring System with Theft Detection”, Application No: 202341040039 A, Published on 08.09.2023.
- Dr.A.Lakshmi, 2)Dr.C.ArunachalaPerumal, S.Harini Shriram, R.Chandralekha, S.Subhash, P. Veeramanimaran, Vijayalaxmanasen. published a patent with the title , “A CRITICAL EQUIPMENT HEALTHINESS MONITORING AND ALERT SYSTEM” Application No.202441000088 A, Publication Date : 16/02/2024.

11. Membership in Professional societies:

- An active Life Member of The Institution of Engineers (IEI)-AM3051423.
- An active Life Member of Artificial Intelligence Medical and Engineering Researchers Society (AMIER).
- An active Life Member of Indian Society for Technical Education (MISTE).
- An active Member of International Association of Engineers (MIAENG).

12. Awards, Recognition & Achievements:

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties)

Awards:

- Received “**APJ Abdul Kalam award of Teaching Excellence**” from Marina Labs, Kavya Garden, and Chennai on 21.10.2017.
- Received “**Best Teacher**” award for the academic year 2016-2017 awarded by IQAC of Kalasalingam University
- Received “**Best Teacher**” award for the academic year 2015-2016 awarded by IQAC of Kalasalingam University
- Received “**Best Faculty Advisor**” award for the academic year 2015-2016 awarded by IQAC of Kalasalingam University
- Received “**Competence award for Faculty Advisorship**” award for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received “**BEST TEACHER(JUNIOR)**” award for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received “**ACTIVE PARTICIPATION IN NBA**” for the academic year 2014-2015 awarded by IQAC of Kalasalingam University
- Received “**RESEARCH EXCELENCE**” award for the academic year 2013-2014 awarded by Dept ECE Kalasalingam University.

Recognition:

- Publication is available in **IE (I) Epitome**.
- **Session chair** for 1st **International Conference** on Sustainable Materials and Technologies in VLSI and Information Processing (SMTVIP'24) is Co-sponsored by SERB in Kalasalingam Academy of Research and Education, Krishnankoil, India.
- Reviewed the 4 papers in 2nd **IEEE International Conference** on Artificial Intelligence Trends and Pattern Recognition 2024 Hyderabad, India
- **Session chair** for 1st **International Conference** on Artificial Intelligence, Cyber Security and Game Design (ICAIGGD'24) organized in CSE of Ramco Institute of Technology India.

- **Session chair** for 1st **International Conference** on Smart Technologies and Applications (ICSTA '22) organized in EEE of Ramco Institute of Technology India
- **Technical Committee Member** of 2ICML 2022, Qingdao, China
- **Recognized Reviewer** for the **Cognitive Neurodynamics**, Springer Nature
- **Recognized Reviewer** for the **npj Mental Health Research**, Springer Nature,
- **Recognized Reviewer** for the **BMC cancers**, Springer Nature
- **Recognized Reviewer** for the **Scientific Reports**, Springer Nature
- **Recognized Reviewer** for the **Signal, Image and Video Processing**, Springer Nature
- **Recognized Reviewer** for the **Concurrency and Computation: Practice and Experience**, Wley.
- **Recognized Reviewer** for the **Computer in Biology and Medicine**, Elsevier
- **Recognized Reviewer** for the **Biomedical Signal Processing and Control**, Elsevier
- **Reviewer** for the **Informatics in Medicine Unlocked**, Elsevier
- **Reviewer** for the **Advances in Science, Technology and Engineering Systems Journal**, Hindawi
- **Reviewer** for the **TELKOMNIKA (Telecommunication Computing Electronics and Control)**
- **Reviewer** for the **Computational Intelligence and Neuroscience**, Hindawi
- **Reviewer** for the **Wireless Communications and Mobile Computing**, Hindawi
- **Reviewer** for the **Computational and Mathematical Methods in Medicine.**, Hindawi
- **Reviewer** for the **Intelligent Automation & Soft Computing**, Taylor and Francis Ltd.

Achievements:

- Awarded with **IUCEE International Engineering Educator Certification** with Distinction.
- Awarded with Certificate Of Appreciation For Adopting Impartus Lecture Capture And Being Part Of The Digital Revolution In Education.
- Achieved **92.5%** in CLAD exam conducted by National Instruments and awarded with **CLAD Certified Associate Developer**.

Guest lecture Delivered:

- Delivered Guest Lecture on "**Cultural and Moral Values** " for ECE students organized by NSS & WID Cell of Arasan Ganesan Polytechnic ,Sivakasi on 09.03.2026
- Delivered lecture on, "**Empower 360:Skill Enhancement For Non-Teaching Staff** on the topic Best Practices in NAAC/NBA and ISO Documentation for Non- Teaching Faculty" in STTP conducted for Non- teaching faculty members organized by Department of ECE, RIT on 16.12.2025
- Delivered Guest Lecture on "**Youth Awakening day** " for ECE students organized by NSS of Arasan Ganesan Polytechnic ,Sivakasi on 15.10.2025.

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- Delivered Guest Lecture on "**Emerging Trends in Electronics and Communication Engineering**" for ECE students of Arasan Ganesan Polytechnic , Sivakasi on 8.08.2025.
- Delivered lecture on, "**Empower 360:Skill Enhancement For Non-Teaching Staff**" in STTP conducted for Non- teaching faculty members organized by Department of ECE, RIT on 7.2.2025
- Delivered lecture on IEEE photonic Society Student chapter STTP, Advancements in Photonics and Optical Network in the topic "**Photonic Switching**" organized by Department of ECE, RIT on 19.2.2024
- Delivered an Invited Lecture on, "**Energy Optimization Techniques in Mobile Networks**", for one day Seminar on Green Communication for Next Generation Wireless Systems under the Aegis of Electronics and Telecommunication Engineering Division Board, IEI oranzed by The Institution of Engineers (India), Madurai Local Centre held at AAA college of Engineering and Technology, Sivakasi during 30th Nov 2024.
- Delivered Guest lecture on "**INTERNETWORK and APPLICATION**" in EEE department KARE on 18.04.2018
- Delivered lecture on AICTE and IETE sponsored Faculty Development Programme "**Digital Image Processing on the topic boundary descriptor**" 6th to 13th june 2016, Department of ECE, Kalasalingam Institute of Technology, Krishnankoil.
- Delivered guest lecture on "**IIR and FIR Filter Design**" EEE department, Kalaslingm Institute of Technology, Krishnankoil.
- AU-CFD Sponsored Six Day FDTP on "**Digital Signal Processing**" to be held during 6th to 11th May, 2019 and delivered Digital Filter Design" on 9th May 2019 (Thursday).

Other Responsibilities:

- **Member Secretary** for Academic Council
- **ISO- Deputy Management Representative (DMR)** in RIT.
- **NAAC- Criteria 2** Coordinator in RIT.
- **Deputy warden** for the Girls Hostel in RIT.
- **PAQIC** Coordinator for ECE department of RIT.
- **NBA – criteria 1** Coordinator for ECE department in RIT
- Adjunct Professor- Faculty Coordinator for ECE department of RIT.
- **Coordinator** for Campus visit in RIT
- Internal **Academic Council Member** for KARE from 2014-2017 & 2018-2021
- Internal **Board of Studies Member** in ECE department of KARE for Curriculum Design 2014 -2021
- Department IQAC officer in KARE from 2016 to 2021