

FACULTY PROFILE

Name of Teaching Staff / RMK ID	T1245_Dr.S.Nithyaselvakumari.S 		
Designation	ASSISTANT PROFESSOR		
Department	ECE ACT		
Date of Joining the Institution	03.07.2026		
Qualifications	M.E.,Ph.D		
Total Experience	Industry 4yrs 6 Months Teaching 14 yrs 3 Months Overall : 18 years 09 months	in RMK : 3 months	
Papers Published in Journal	Overall : 18 yrs 09 Months	After Joining RMK : 03 Months	

List of Papers Published	1. Paper has been published Q2 SCI Journal list by sciAn Optimised Mobilenet V2 Attention Parallel Network for Predicting Drug–Drug Interactions Through Combining Local and Global Features S. https://doi.org/10.1002/bdd.70001. 2. Paper has been published by ‘Optimization Driven Machine Learning Approach for Prediction of Hydrochar Properties from Municipal Solid Waste 2023, 15(7), 6088. (SCI journalQ2) 3. Paper has been published ‘Low-Power Edge AI Architectures for Real-Time Signal Processing in IoT Antenna Arrays: Bridging the Gap Between Performance and Energy EfficiencyD. National Journal of antenna and propagation publication date : 04.06.2025 Volume 7 Issue 1(Q3 Journal) 4. Paper has been published by ‘Arrhythmia Recognition and Classification using ECG Morphology and segmentation European Journal of Molecular & Clinical Medicine, ISSN 2515-8260 Volume 7, Issue 4, 2020 .(Scopus). 5. Paper has been published by ‘A Non Invasive Hearing AID using GSM Module. International Journal of Aquatic science. ISSN 2008-8019 ,Vol 12,Issue 03,2021.(Scopus) 6. Paper has been published by A low cost Effective contrast Theraphy using controlled peltier. Published in Turkist online journal of qualitative Inquiry ISSN:1309-Vol 12 No 7.(Scopus)
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	7. Paper has been published by IJIM Enhancing the Security of Software Defined Mobile Networks (SDMN) based on Blockchain Technology. (Scopus) 8. Paper has been published by Clustering Technique for Mobile Edge Computing To Detect Clumps in Transportation-Related Problems. IJIM .(Scopus) 9. Paper has been published by Computational model based approach to analyse potassium concentration and ion channel effects in ventricular ECG generation for normal and arrhythmic condition using Euler integration method-A Simulation study https://doi.org/10.1063/5.0134693(Scopus) 10. Paper has been published by A Comparative Study of Stacked Ensemble and SVM Models in Breast Cancer Classification, International Conference on Communication, Computing and Electronics Systems (Scopus) 11. Paper has been published by NeuroFusion: Ensemble Framework for Transparent OCD Prediction, , International conference on Communication and Electronics systems . (Scopus) 12. Paper has been published by Machine Learning-Based Predictive Model for Ischemic Stroke Risk Assessment: A Data-Driven Approach Using XGBoost , S.Nithyaselvakumari International conference on Electronics , communication and Aerospace Technology (Scopus) 13. Paper has been published by . Optimizing Resource Allocation in Distributed Cloud Environments Using Machine Learning Techniques, S.Nithyaselvakumari, International conference on Electronics and sustainable communication system .(Scopus) 14. Paper has been published by Detection and Prevention of Cell Congestion in LTE Networks using Machine Learning Techniques , International conference on Modern Sustainable system (CMSS 2025) 15. Paper has been published by Proceedings Analysis and comparison of fuzzy based purkinje fibre cell synchronization and coordination classification using calcium channel parameters with ANN and KNN classifier Available to Purchase, June 12 2025. 16. Paper has been published by Proceedings of Analysis and comparison of edge preserving filtering using non local means filtering and anisotropic diffusion filtering Available to Purchase June 12 2025 https://doi.org/10.1063/5.0266225 17. Paper has been published by Proceedings Analysis and comparison of denoising algorithm for improving the quality of color image over contrast stretching algorithm June 12 2025 https://doi.org/10.1063/5.0266226
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	Automation (RPA) and Artificial Intelligence (AI)–A Case Study On January 2023		
	18. Paper has been published by Development of pyramidal transform based image fusion technique with improved SSIM with underwater images in comparison with wavelet transform based image fusion technique		
	19. Paper published in IEEE Xplore titled “ Alzheimer’s disease detection using cosine KNN classifier machine learning algorithm in comparison with medium KNN classifier with improved accuracy.		
	20. Paper published in IEEE Xplore titled Computational approach in cardiac arrhythmias to analyse sodium (Na ⁺) concentration of extracellular and intracellular fluid effects in purkinje fibre cell for action potential depolarization phase generation using Euler integration method.		
	21. Paper published in IEEE Xplore titled Analysis And Comparison Of Ventricular Cardiac Arrhythmia Classification Using Sodium Potassium Pump Channel Parameters With ANN And KNN Classifier.		
	22. Paper published in IEEE Xplore titled Analysis And Comparison Of Ventricular Cardiac Arrhythmia Classification Using Potassium Channel Parameters With ANN And KNN Classifier		
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 12	After Joining RMK : 0	
Ph.Ds / Projects Guided	Ph.Ds Guided : 2	Student Projects Guided : 25	
Patents	Published Count : 5		Granted Count : Nil
	List :		
	1. Image processing based Duplicate tablets identification system for medical shop		
	2. AI & Image processing based system for concoction proportion verification for pharmaceutical Industry.		
	3. Smart Health Monitoring system using Internet of Things Technology.		
	4. Next Generation AI Enabled Battery Health Prediction, Thermal Management, and Energy Optimization System for Electric Vehicles		
	Count :4		

Professional Memberships	List: 1. INDIAN SOCIETY FOR TECHNICAL EDUCATION- Life Time Member From 2019.
Consultancy Projects Completed	Count :0
Awards Received	Count :0
	List: 1. Received Best Professor Award 2025. 2. Received Excellent and Academician 2003
Orchid Link / ID	ID

Google Scholar Link / ID	ID :
Vidwan Link / ID	ID :
Research Gate Link / ID	
Scopus Link / ID	ID : 58184246400