FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr.S.VIJAYALAKSHMI / T0173		
Designation	Professor		
Department	Electronics and Communication Engineering		
Date of Joining the Institution	12.10.2001		
Qualifications	B.E (EEE)	M.E(Applied Electronics)	Ph.D (Information and Communication Engineering)
Total Experience	Overall : 24.9 Years		in RMK :21.8 Years
Papers Published in Journal	Overall :22		After Joining RMK :22
List of Papers Published	1. LPV Modeling and Performance Analysis of Boiler Drum using IMC-PI Controller, Applied mechanics and Materials Journal, Vol. 415,pp 117-121,2013. 2. Model identification for Industrial Coal Fired Boiler Based on Linear Parameter Varying Method International Journal of Engineering and Technology, Vol.5 No 5,pp.4116-4126,2013. 3. Closed Loop Experimental Validation of Linear Parameter Varying Model with Adaptive PI Controller for Conical Tank System, Journal of control Engineering and applied Informatics.Vol:16 No:4 December 2014. ISSN 1454-8658 Impact Factor: 0.338 4. Modeling and simulation of coal fired boiler, Applied mechanics and Materials JournalVol. 787,pp255-259,2015 5. Water Management System Using Dynamic IP based Embedded Web Server in Real Time, International Journal of Advances in Engineering and Emerging Technology (IJAEET), Vol. 10, No. 1, March 2019 6. Smart Warehouse Monitoring Using Iot, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8, Issue-6, August 2019 7. FPGA Implementation of Smart Water Quality Monitoring System, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-11, September 2019 8. Construction of Wireless Stethoscope with Noise Reduction Feature using Zigbee Module, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-1S, November 2019 9. Automated Monitoring System for Heart Patients using Ambubot, International Journal of Recent Technology and		

Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4, November 2019

10. Recognition and Analysis of Indian Sign Language Using Improved K-means Algorithm, European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 7, Issue 11, 2020

11. Smart Monitoring and Control of Chicken Barn Climate and Hazardous Volatile Compounds using Iot, Test Engineering and Management, January - February 2020 ISSN: 0193 - 4120 Page No. 14932 – 14935

12. Design of Temperature Control in Solid State Fermentation Process for the Production of Enzyme, Proceedings of the Third International Conference on Inventive Research in Computing Applications (ICIRCA-2021) IEEE Xplore Part Number: CFP21N67-ART; ISBN: 978-0-7381-4627-0

13. Optimal biomarker selection using adaptive Social Ski-Driver optimization for liver cancer detection, Biocybernetics and Biomedical Engineering, Volume 40, Issue 4, October–December 2020, Pages 1611-1625

14. Analysis on segmentation and biomarker-based approaches for liver cancer detection: A survey, IET Image Process. 2021; 845–855.

15. Smart Mirror Information system using Iot, Inventive computation and Information Technologies, Lecture notes in Networks and systems, pp 631-640

16. Automatic Drainage Monitoring and Alert System Using IoT, Inventive Computation and Information Technologies pp 747-758

17. Ameliorated monopole antenna with perforated ground for breast tumor detection, Journal of Ambient Intelligence and Humanized Computing ISSN 1868-5137 J Ambient Intell Human Comput DOI 10.1007/s12652-020-02380-6

18. Design of a Compact Triband Printed Monopole Antenna using Right Turned L shaped Connecting Arms for Wireless Communication Networks, High Technology Letters, ISSN NO : 1006-6748

19. Cloud based analysis of Drinking Water quality parameters, International Conference on Recent Trends in Computing (ICRTCE-2021) Journal of Physics: Conference Series 1979 (2021) 012053 IOP Publishing doi:10.1088/1742-6596/1979/1/012053

20. Online investigation for irrigation water quality parameters of Gummidipoondi Lake, Thiruvallur, Tamil Nadu, India, Applied Water Science (2022) https://doi.org/10.1007/s13201-021-01511-4

21. Improved DASH Architecture for Quality Cloud Video Streaming in Automated Systems, International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169 Volume: 11 Issue: 2s DOI: https://doi.org/10.17762/ijritcc.v11i2s.6026

22. Machine learning assisted investigation on properties of TiO2

	reinforced aluminium metal matrix composites, Materials Today: Proceedings,Volume 74, Part 1, 2023, Pages 80-84,https://doi.org/10.1016/j.matpr.2022.11.306Get rights and content	
Papers Presented in Conferences (Scopus / WoSindexed only)	Overall :13	After Joining RMK :13
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided : 40
Books Published :	Count : 01	
	List : Electric Circuit – Theory and Analysis – Yesdee Publishing	
Patents	Published Count : 01	Granted Count :01

	List :
	Granted
	   1. Design of Compressorless Water Chiller And Heater granted on 14.07.2021
	Published
	   1. Accelerate Recognition Pen	

Professional Memberships	Count : 04	
	List : ISTE, ISOI, IEI, IAAC	
Consultancy Projects Completed	Count : 03	
Awards Received	Count : 03	
	List :"Best faculty Advisor Award" from Institution of Engineers in 2019 "Best mentor Award" from Scientific International Publishing house "Best faculty Advisor Award" from Institution of Engineers in2023	
Research grants Received	Nil	
Orchid Link / ID	ID :https://orcid.org/0000-0001-8408-9791	
Google Scholar Link / ID	ID :https://scholar.google.com/citations?user=iBZmfUgAAAAJ&hl=en	
Vidwan Link / ID	ID :https://vidwan.inflibnet.ac.in/profile/305282	
Research Gate Link / ID	https://www.researchgate.net/profile/Vijayalakshmi-Sankaran-3	
Scopus Link / ID	ID :https://www.scopus.com/authid/detail.uri?authorId=57524260600	