

FACULTY PROFILE

Name of Teaching Staff / RMK ID	Dr. A. Anna Lakshmi /T1120			
Designation	Associate Professor Grade II			
Department	Information Technology			
Date of Joining the Institution	09-10-2023			
Qualifications	B.E(CSE)	M.E(CSE)	Ph.D(ICE)	
Total Experience	Overall : 21.1 Years		in RMK : 1.9 Years	
Papers Published in Journal	Overall : 14		After Joining RMK : 8	
List of Papers Published	1.A. Anna lakshmi, Dr.K.R. Valluvan, “A Survey of Algorithms for Defending MANETs against the DDoS Attacks” , International Journal of Advanced research in Computer Science & Software Engineering,Sep 2012. 2.A. Anna lakshmi, Dr.K.R. Valluvan, N.Naveen, “A Cogitate study of IDS in MANET”, International Journal of Computer Science and Information Technology & Security, Oct 2012. 3.A. Anna lakshmi, A.Anandakumar, G.Nagaraj, K.R.Valluvan, “ Comparative Analysis of Architectures for Intrusion Detection Systems against DoS Attacks in MANETs based on Chi-Square Test”, International Journal of Computer Applications (0975 – 8887) Volume 87 – No.4, February 2014. 4.A. Anna lakshmi, K.R.Valluvan, “ Support Vector Machine And Fuzzy Based Intrusion Detection And Prevention For Attacks In Manets” International Journal of Mobile Network Design and Innovation s, Volume 6 Issue 2, November 2015, Pages 63-72 , Inderscience.Publishers , Geneva, DOI 10.1504/IJMNDI.2015.072837. 5.A.Annal lakshmi, Dr.K.R.Valluvan,” Cluster based Secure Group Communication Model for MANET”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 9 (2015), pp. 6820-6831. 6.A.Annal lakshmi, Dr.K.R.Valluvan,” Certificate Based Secure Communication Scheme for Cluster Based Architecture in MANET”, International Journal of Printing, Packaging & Allied Sciences, Vol. 4, No. 4, December 2016. 7.A. Anna Lakshmi, M. Suganthi, R. Jeeva, D. G. David, “Novel Technique For Random Number Generation Using Cmos Image Sensor”, AIP CP Volume 2444, 31 Mar 2022. 8. G Uma Maheswari, A Anna Lakshmi, K Kirubanantha Valli, G Vinoth Rajkumar, SP Ramesh,” Edge Sensing of Agricultural Layers with Signals and TS Protocol and PS with PAPRAware Transmission”, 2023. 9. Dr. A. Anna Lakshmi, R. Aruna, S. Banu Priya, S. Daicy Rani, E. Mahalakshmi, “Prediction of crop using ensembling approaches”, International Journal of Engineering Research & Technology, 2023. 10.A. Anna Lakshmi, “Improving the power consumption of sensor networks using optimization technique for sleep scheduling mechanism”, Journal of Super Computing,2023.			

	11. Dr. A. Anna Lakshmi, Karpagavalli C, Saravanan T, Logapriya V, Blessing karunya T, Twinkle Geojini G, Dr. Mariappan E and Ramnath M, “Heart Disease Prediction: A Machine Learning Model For Evaluation And Hyperparameter Tuning”, African Journal of Biomedical Research, 2024. 12. Dr. Mariappan E, Dr. Anna Lakshmi A, Amala Princeton X, Vetrivel P, Dr. Ramasamy S, Angel Hephzibah R, Dr. Kaliappan M, Ramnath M,”An Examining Cluster Behaviour Analytically Using Kmeans, Em, And K* Means Algorithm“, Journal Of Tianjin University Science And Technology,2024. 13. Vaissnave V, Amuthachenthiru K, Durga Devi G, Dr. Anna Lakshmi A, Dr. Jenifer John J, Ramnath M, Dr. Mariappan E,”Ldpc Code Based Autoencoder Of Awsn Using Deep Neural Networks Model For Wireless Communication Channel”, Journal Of Tianjin University Science And Technology,2024 14. Anna Lakshmi A, Ramaswamy S, Mariappan E, Kaliappan M, Ramnath M, Angel Hepzibah R, “Maximizing Solar Energy Efficiency Through Grasshopper Algorithm-Based Site Selection”, J.ElectricalSystems, 2024 15. Angel Hepzibah R., Anna Lakshmi A., Mariappan E., Kaliappan M., Sugel Anandh O., Amala Princeton X., Ramnath M., Karpagavalli C.,”Dragonfly Algorithm-Based Approach for Solar Power Plant Optimization in IEEE 69-Bus Network”, International journal of Science, Mathematics and TechnologyLearning, 2024 16. Guru Prakash B, Siva T, Shunmugasundaram S, Mariappan E, Anna Lakshmi A, Ramnath Muthusamy, “Next-Gen Security: Leveraging Dna Cryptography For Robust Encryption”, Journal of Theoretical and Applied Information Technology, May 2025 17. A. Karthika, J. Yamuna Bee, S. Arun Kumar, Dr. A. Anna Lakshmi, Dr. G. Uma Maheswari, Dr. Nagarajan Gurusamy, N. Ragavendran, Dr. M. Vargheesea, Future Trend On 5G Network Sub-Slicing Techniques For Machine Learning Algorithms, Journal of Theoretical and Applied Information Technology, July 2025 18. A. Anna Lakshmi; A. Vijayaraj; C K Sruthi Shree; Shai Kumar R; Santhosh V; Tharun Kumar S, Artificial Intelligence Enhanced Virtual Reality Surgery Training, IEEE Xplore, June 2025.	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall : 7	After Joining RMK :2
Ph.Ds / Projects Guided	Ph.Ds Guided : - NIL	Student Projects Guided :- 20
Books Published :	Count : 1	
	List : Artificial Intelligence and Machine Learning for Beginners: Practical Approaches with Python, Alpha International Publications	
Patents	Published Count : 7	Granted Count : NIL

	1. A Utility Model Patent is filed which is entitled “Designing a micro jammer to avoid explosion in petrol stations due to mobile usage” in 2021. 2. Iot Monitoring System For Detecting Harmful Gases And Fires In Work Field - 202441009140 & 11.02.2024 3. IOT Based Oxygen Supply System - 202441029740 & 12.04.24 4. System and method for categorizing mobile phone price information using machine learning algorithms - 202441044799 & 07.06.2024 5. Enhanced Data Encryption Algorithm For Secure Mobile Payments In Iot Ecosystems - 202541012918 A- 21/02/2025 6. Adaptive AI-Based Recommendation Engine For Personalized E-Learning Platforms- 202541023171 A-28/03/2025 7. Blockchain – Based Decentralized Identity Verification System For Secure Online Transaction - 202541037681 A-09/05/2025
Professional Memberships	Count : 1
	List : ISTE
Consultancy Projects Completed	Count : 2
Awards Received	Count : 3
	List : 1. Received NPTEL Enthusiast Star Award 2. Received NPTEL Believer Star Award 3. Received Best Faculty Award from the Institution of Engineers(India)
Research grants Received	NIL
Orchid Link / ID	Link: https://orcid.org/0009-0008-2440-812X
Google Scholar Link / ID	Link: https://scholar.google.com/citations?user=HK5PKrkAAAAJ&hl=en
Vidwan Link / ID	ID : 170282
Research Gate Link / ID	Link: https://www.researchgate.net/profile/Anna-Arunachalapandian
Scopus Link / ID	https://www.scopus.com/freelookup/form/author.uri?zone=TopNavBar&origin=NO%20ORIGIN%20DEFINED Scopus ID: 58445043700