


FACULTY PROFILE

Name of Teaching Staff / RMK ID			
	Dr.R.Sheeja/T1134		
Designation	Associate Professor		
Department	Artificial Intelligence and Data Science		
Date of Joining the Institution	30.05.2024		
Qualifications	B. E	M.Tech	Ph.D
Total Experience	Overall: 19		In RMK: 2 Months
Papers Published in Journal	Overall: 07		After Joining RMK: Nil
List of Papers Published	<ol style="list-style-type: none"> 1. Sheeja.R, Iqbal M.M., Sivasankar, C” Multi-objective-derived energy efficient routing in wireless sensor network using adaptive black hole-tuna swarm optimization strategy “Ad Hoc Networks, 2023, 144, 103140 (SCI), Quartile 1 2. R. Sheeja and J. Sutha “Soft fuzzy computing to medical image compression in wireless sensor network- based tele medicine system” has been published in Online in Springer- Multimedia Tools and Applications, ISSN: 1573-7721(SCI), Quartile 1 3. Bibin.C, Sheeja.R, Devarajan.Y,Ponnappan,V.S.“Environment impact assessment of agricultural diesel engines utilizing biodiesel derived from phoenix sylvestris oil”, Environmental Research, 2023, 224, 115432(SCI), Quartile 1 4. Bibin, C., Sheeja, R., Devarajan, Y., Ouladsmame, M., Kalam, M.A.” Process optimization study on the feedstock derived from Cerbera odollam seeds”, Biomass Conversion and Biorefinery, 2023 (SCI), Quartile 2 5. Chidambaranathan B,Kumarasami D.P,Raghavan Sheeja,Sundaram, M.”Thermal and chemical exhaust gas recirculation potential of punnai oil biodiesel-fuelled diesel engine for environmental sustainability,Environmental Science and Pollution 		

Research,1,0.1007/s11356-022-20463-z (**SCI & Scopus**)- **Quartile 1**

6. Influence of Nanofiller Lignite Fly Ash on Tribo-Mechanical Performance of Sansevieria Roxburghiana Fiber Reinforced Epoxy Composites Ashok, Kumaresan, Ajith, Damodaran, Nishanth, **Sheeja Raghavan**, Dec 2022, Journal of Natural Fibres (**WOS**)
7. Nikhil Teja and **R. Sheeja** "Security in cloud using locality scheme and nearest neighbouring scheme" has been published in Scopus Indexed International Journal of Recent Technology and Engineering. . (**SCOPUS**)
8. **R. Sheeja**, Chidambaranathan Bibin, Priya R Krishnan, R.Nishanth, S.Gopinath and K.G.Ashok "Secure File Sharing System in Cloud Using AES and Time Stamping Algorithms" has been published in Scopus Indexed Journal IOP Conference series, Materials Science & Engineering.(**SCOPUS**)
9. ChidambaranathanBibin,P.K.Devan,S.SenthilKumar,S.Gopinath,**R.Sheeja**, **K.G.**Ashok "Effect of palmitic and oleic acid mixture on performance and emission analysis of a di diesel engine", <https://doi.org/10.1016/j.matpr.2020.10.735> in Elseiver, Materials Today Proceedings.(**WOS**)
10. Chidambaranathan Bibin, P.K.Devan,S.SenthilKumar,S.Gopinath,**R.Sheeja**, K.G.Ashok "Influence of palmitic and oleic acid mixture on combustion evaluation of a diesel engine", Materials Today: Proceedings 45, 6638-6644 (**WOS**)
11. C Bibin, PK Devan, SS Kumar, S Gopinath, **R Sheeja**, Thermal performance of Lithium-Ion battery pack using forced air circulation system, Materials Today: Proceedings 46,670-3676 (**SCOPUS**)
- 12.**Sheeja**, R., Mounika, N. , Bibin, C. , Nishanth, R. , Umaeswari, P.Enhanced performance in detecting phishing website based on proficient component based machine learning AIP Conference Proceedings, 2022, 2393, 020021, 19 May 2022 (**SCOPUS**)
- 13.**Sheeja**, R., Umaeswari, P. , Bibin, C. , Nishanth, R. , Chandana, S.H.Local train ticketing system using web services, AIP Conference Proceedings , 2022, 2393,020022, 19 May 2022(**SCOPUS**)
- 14.Bibin, C., Kumar, S.S. , Aravindhan, N , **Sheeja**, R. , Ramachandran, M.Flow analysis of secondary air injection in conical rocket nozzle, AIP Conference Proceedings ,2022, 2393, 020048, 19 May 2022 (SCOPUS)
- 15.**Sheeja**, R., Umaeswari, P., Bibin, C., Nishanth, R., Ashok, K.G.Classification and prediction of cancer using data mining AIP Conference Proceedings, 2022, 2393,020024(SCOPUS)
16. Bibin, C., Devan, P.K., Senthil Kumar, S., Madhu, S., **Sheeja**, R. Characterization of Nonedible Punnai Oil Biodiesel Derived by Two-Stage Transesterification,Green Energy and Technology, 2022, pp. 205–229 (**SCOPUS**)
17. FR-4-based Single-Element Rectangular Microstrip Patch Antenna for ISM Band Applications Kumar, S.V.M., Duraibabu, A., Nishanth, R., ...**Sheeja**, R., Kumar, K.S.1st IEEE International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2022, 2022 (**SCOPUS**)
18. Book Chapter, Computational Fluid Dynamic Analysis of Exhaust Gas Calorimeter Chidambaranathan, B., Kumar, S.S., Gopinath, S., **Sheeja**, R., 2023, pp. 357–367 (**SCOPUS**)
19. **Sheeja R**, Jeffery George MT; Laya Prathap Nambiar; Monisha S," Survey on

	<p>Pavement Distress Detection and Recognition”, IEEE, 10.1109/ic-ETITE58242.2024.10493639 2024 (SCOPUS)</p> <p>20. R Sheeja, R Akshaya; S Akshaya; D R Jashwanthikaa,” AI-Optimized Eco-Charge Regeneration Technology in EV”, IEEE, EV”, IEEE, 10.1109/ESCI59607.2024.10497310,2024(Scopus)</p> <p>21. R. Sheeja, S. Vanaja, Adimoolam M & Chidambaranathan Bibin,” Spatial-Based Big Data and Large-Scale Network Management” Part of the book series: Big Data Management (BIGDM), https://link.springer.com/chapter/10.1007/978-981-99-9651-3_3, Springer 2024(Scopus)</p> <p>22. J. Guru Mohish Srivastava, R. Sheeja “Design and Implementation of Crypto based water Marking Techniques for EHR Security” ISSN: 0193-4120, Page No.10788 – 10792, vol 82, Test Engineering & Management.</p> <p>23. Guggilla Venkata Sivaiah,R. Sheeja “Optimization of Flight Scheduling using Quality of Service Routing- A Survey” ISSN: 0193-4120 Page No.10812 – 10815, Vol 82, Test Engineering & Management.</p> <p>24.V. Jagadeeswar Reddy, R. Sheeja “Survey on Different Dimensionality Reduction Techniques using Machine Learning Framework” ISSN: 0193-4120Page No.10654 - 10658, vol 82, Test Engineering & Management.</p> <p>25. Narravalu Mounika, R. Sheeja “A Survey on Detection of Phishing Websites Using an Efficient Feature based Machine Learning Framework” ISSN: 0193-4120 Page No.10572 -10578, vol 82, Test Engineering & Management</p> <p>26.V. Jagadeeswar Reddy, R. Sheeja“ Dimensionality Reduction Technique Using Machine Learning by Pack Algorithm” May-June 2020 ISSN: 0193-4120 Page No.12939 –12943, Test Engineering & Management.</p> <p>27.J. Guru Mohish Srivastava R. Sheeja “Implementation of Triple DES ALGORITHM in Data hiding and Image Encryption Techniques” Vol. 29, No. 3, (2020), pp. 10549 – 10559 has been published in International Journal of Advanced Science & Technology.</p> <p>28. Chigicherla Bharath Kumar Reddy, R. Sheeja “Optimizing the Life Time of Wireless Sensor Networks by Using Clustering and Genetic Algorithms” ISSN: 0193-4120 Page No. 1282 – 1286, Test Engineering & Management.</p> <p>29.Chigicherla Bharath Kumar Reddy, R. Sheeja “Increasing the life time of wireless Sensor Networks by using algorithms” ISSN- 2394-5125 Vol 7, Issue 14, Journal of Critical Reviews</p> <p>30.Guggilla Venkata Sivaiah, R. Sheeja “Flight scheduling for airport throughput and Flight Delay optimization”, ISSN- 2394-5125 Vol 7, Issue 14, 2020, Journal of Critical Reviews</p>	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 14	After Joining RMK: Nil
Ph.Ds / Projects Guided	Ph.Ds Guided : Nil	Student Projects Guided:30
	Count:2	

Books Published:	<p>1. Published the text book titled “Doorstep Python Programming” ISBN: 9781639744299, Publisher: Notion Press July 2021</p> <p>2. Published the text book titled Big Data and Data Analytics using R” ISBN:9789357574334 in August 2023</p>	
Patents	Published Count:2	Granted Count:1
	<ul style="list-style-type: none"> ➤ Published Patent “Remote Prescription and Health care based IOT” (201941041420) in Intellectual Property India patent. ➤ Published Patent “Medical Equipment Data Processing Framework using Hybrid Fog-Edge Computing” (202241003853) in Intellectual Property India patent. ➤ Patent Granted” IoT based automated Rail track Inspection Trolley” (386059-001) in Intellectual Property India patent 	
Professional Memberships	Count: 5	
	<p>List:</p> <ul style="list-style-type: none"> ➤ The Indian Society for Technical Education (ISTE), Life member, LM 63225 ➤ International Society for Research and Development (ISRD), Life Member, M4150900713 ➤ International Academy for Science and Technology Education and Research (IASTER), Membership No. 16060292 ➤ International Association of Engineers (IAENG), Member Number: 235163 ➤ Computer Science Teachers Association (CSTA) 	
Consultancy Projects Completed	Count:Nil	
Awards Received	Count:5	
	<p>List:</p> <ul style="list-style-type: none"> ➤ Received National Level Best Faculty Award from Dr. Kalam Educational Trust in the year 2020 in recognition of meritorious service and Achievements in Academic. ➤ Received Best Women Researcher Award in the International Conference on Science and Engineering (ICSE 2023) on 27th and 28th February 2023 Organized by IEI, Hosur Local Centre, Krishnagiri, Tamil Nadu, India & REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu, India. ➤ Received Certificate of appreciation award from IIT Madras for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari 	

	<p>Engineering College,Tamilnadu Rated “AA”,48th rank all over India based on the Performance in NPTEL Online Certification Courses Jan-April 2023.</p> <p>➤ Received Certificate of appreciation award from IIT Madras for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari Engineering College,Tamilnadu Rated “A” 57th rank all over India based on the Performance in NPTEL Online Certification Courses July-Dec 2023.</p> <p>➤ Received Certificate of appreciation award from IIT Madras for the Instrumental Role as SPOC for the SWAYAM NPTEL Local Chapter, Easwari Engineering College,Tamilnadu Rated “AA” 52nd rank all over India based on the Performance in NPTEL Online Certification Courses Jan-April 2024.</p>
Research grants Received	nil
Orchid Link / ID	Link: https://orcid.org/0000-0001-7242-2817 ID: 7242-2817
Google Scholar Link / ID	ID: https://scholar.google.co.in/citations?user=dzysjsMAAAAJ&hl=en ID: dzysjsMAAAAJ&hl=en
Vidwan Link / ID	ID: https://vidwan.inflibnet.ac.in/profile/300569
Research Gate Link / ID	https://www.researchgate.net/profile/R-Sheeja-2
Scopus Link / ID	ID: https://www.scopus.com/authid/detail.uri?authorId=57218902257