F	AC	ULTY PROFILE FORMAT (Format 3)
Staff Name	:	Dr.S.Aghalya
Faculty ID	:	TEC25
Designation	:	Associate Professor
Qualification	:	M.E., Ph.D
Teaching Experience	:	28 years and 5 months
Area of Specialization	:	Wireless networks, Optical Communication
<b>Subjects Handled</b>	:	Communication Networks
		Digital Communication
		Electron Devices and Circuits
		Linear Integrated circuits
		Digital Principles
		Mobile communication
		Ad-hoc and Wireless sensor networks
		Signals and systems
		Wireless Communication
		Digital signal processing
		Optical communication
		Satellite Communication
		Multimedia compression techniques
		High performance communication networks
		Advanced Digital System Design
		Wireless Networks
		Radar Systems
Journals Published	:	1. Aghalya,S 2024, 'Cloud based prediction of epileptic seizures
		using real-time electroencephalograms analysis' International
		Journal of Electrical and Computer Engineering, VOL.15,
		No.5.
		2. Aghalya,S 2024, 'Enhanced Algorithm for for accurate
		identification of water bodies in Satellite Imagery', Journal of
		Xidian University, ISSN No:1001-2400, vol.18, issue 5.
		3. Aghalya,S 2023, 'Prediction of link failure and optimal route
		in MANET using Fuzzy linear Regression', Intelligent
		Automation and Soft Computing, IASC, 2023, vol.36, no.2.
		4. Aghalya,S 2021 'Intelligent Ambulance with Health
		Monitoring', International Journal of Advanced Research in
		Electrical, Electronics and Instrumentation Engineering, e-
		ISSN: 2278 – 8875, p-ISSN: 2320 3765 Volume 10, Issue 4,
		April.
		5. Aghalya, S 2020, 'A Surveillance System for Air Pollution
		Monitoring-Warning', International Journal of Innovative
		Technology and Exploring Engineering, ISSN: 2278-3075
		(Online), Volume-10 Issue-1, November.
		6. Aghalya, S 2013, 'Design of Vertical Handoff Initiation and
		Decision Algorithm in Heterogeneous Wireless Networks',

	<ul> <li>International Review on Computers and Software, ISSN: 1828-6003, vol. 8, no. 10, pp. 2379 2388, October.</li> <li>7. Aghalya, S 2013, 'An Optimized Vertical Handoff Decision Algorithm based on Mobility Prediction in Heterogeneous Wireless Networks', European Journal of Scientific Research, ISSN 1450-216X, Vol. 94, No. 2, pp. 177-185, January.</li> <li>8. Aghalya, S 2012, 'Prediction based Vertical Handoff Decision Algorithm in Heterogeneous Wireless Networks', International Journal of Computer Science and Engineering Technology, ISSN 2231-0711, vol. 2, issue 1, pp. 813-816, January.</li> <li>9. Aghalya, S 2010, 'An Efficient Decision Algorithm for Vertical Handoff across 4G Heterogeneous Wireless Networks', International Journal of Computer Science and Information Security, ISSN 1947-5500, vol. 8, no. 7, pp. 124-127, October.</li> </ul>
Conferences	<ol> <li>IoT-Enabled Weather Monitoring and Rainfall Prediction using Machine Learning Algorithm Indhumathi, S, Aghalya, S., Smitha, J.A., Aarthi M, P. Proceedings of the 2023 2nd International Conference on Augmented Intelligence and Sustainable Systems, ICAISS 2023, 2023, pp. 1491–1495.</li> <li>Wireless Sensor Network Based Greenhouse Monitoring Using Cloud Integration with Data Analytics Praveena, M. Babiyola, A. Aghalya, S. Sasikar, A. Proceedings of the 2nd International Conference on Edge Computing and Applications, ICECAA 2023, 2023, pp. 68–72.</li> <li>Reconfigurable Fault Current Detection System Using IoT Latha, P., Kaviyarasan, K., Leo Manickam, J.M., Jancee, B.V., Aghalya, S. Proceedings of the 2nd International Conference on Edge Computing and Applications, ICECAA 2023, 2023, pp. 1390–1395.</li> <li>5G-Enabled V2X Communication with Cloud-Powered XGBoost Algorithm for Electric Transportation, J.Gnana Jeslin, Sujatha.M, S.Aghalya, C.Jehan, Ishwarya M.V, Vedasundara Vinayagam P, 10 th International Conference on Communication and Signal Processing 2024, pp. 1388-1393.</li> <li>Advancements in Immunization Management for Personalized Vaccine scheduling with IoT and Machine Learning, M.Madheswaran, R.Dhanalakshmi, G.Ramasubramanian, S.Aghalya, Raju S, P.Thirumaraiselvan, 10 th International Conference on Communication and Signal Processing 2024, pp. 1566-1570.</li> <li>Revolutionizing Railway Disaster Management with Cuttingedge IoT Technologies and Decision Tree Algorithm, Smitha J A, S.Aghalya, T.Vivekanandan, Nilamadhab Mishra, R.Vimalarasi, Vijayakumar Kadumbadi, 10 th International</li> </ol>

		Conference on Communication and Signal Processing
		2024,pp. 1057-1062.
		7. Automative CAN-Based Intelligent Collision Avoidance
		system using Machine Learning and Cloud Computing,
		P.Santhuja, C.Selvi, C.Jehan, S.Aghalya, B.Meenakshi,
		Mathivanan K, 10 th International Conference on
		Communication and Signal Processing 2024, pp. 1156-1161.
		8. Tele-Rheumatology-Advanced Neural Network Model for
		Remote Assessment and Management of Rheumatic
		conditions, <b>S.Aghalya</b> , R.Sarasu, Nilamadhab Mishra,
		G.Arunachalam, D.Gobinath, Suresh Babu T, 10 th
		International Conference on Communication and Signal
		<del>_</del>
Dedama Dell'il I	_	Processing 2024, pp. 453-458
Patent Published	:	1. A smart portable safety gas monitoring system for drainage
		based on iOT published in the year of 2023.
		2. An IOT based Rain water quality monitoring system pubished
		in the year of 2022.
Consultancy		AH2 LH Crashpad Assembly Pokayoke Fixture, CDCE Automation
		2017.
WORKSHOP/ FDP/		1. Kinematic analysis of Robot mechanisms- Fundamentals, IIIT,
STTP/ SEMINAR		Kancheepuram.
ATTENDED		2. Technology based Entrepreneurship Development
		Programme, AMET University.
		3. Machine Learning for Data science using Python, NIT,
		Warangal.
		4Digital image processing-A practical approach, Government
		Polytechnic college, Gandarvakottai.
		5. Medical signal and Image analysis, St.Joseph's College of
		Engineering, Chennai.
		6. Research scope in Remote sensing, St.Joseph's College of
		Engineering, Chennai.
		7. Artificial intelligence and Data science, St.Joseph's College
		of Engineering, Chennai.
		8. Advanced Cyber Security, St.Joseph's College of
		Engineering, Chennai.
		9. Analytics and Machine Learning at SRM Institute & Tech,
		Chennai.
		10. Evolving trends in Communication and Networking,
		St. Joseph's College of Engineering, Chennai.
		11. For imparting additional information on Applied Statistics in
		Research, CAE, Anna University, Trichy.
		12. Multimedia streaming, CAE, Anna University, Trichy
		13. Research methodologies , CAE, Anna University, Trichy.
		14. Data Science and Analytics Tools, Dhanalakshmi College of
		Engineering, Chennai