

<b>FACULTY PROFILE FORMAT (Format 3)</b>		
<b>Staff Name</b>	:	Madhumitha R
<b>Faculty ID</b>	:	TEC39
<b>Designation</b>	:	Assistant Professor
<b>Qualification</b>	:	M.E., (Ph.D)
<b>Teaching Experience</b>	:	10 years and 7 months
<b>Area of Specialization</b>	:	Applied Electronics
<b>Subjects Handled</b>	:	<ol style="list-style-type: none"> <li>1. Linear Integrated circuits and Applications</li> <li>2. Microprocessors and Microcontrollers</li> <li>3. Digital Image Processing</li> <li>4. Embedded and Real-time systems</li> <li>5. Multimedia Compression and Communication</li> <li>6. Multicore Architecture</li> </ol>
<b>Journals Published</b>	:	<p><b>Journals Published</b></p> <ol style="list-style-type: none"> <li>1) S.Daniel Madan Raja, Karpagam Kanadasan, S.Manimekalai, R.Madhumitha, A.Geetha, N. Kumaran, “Underwater Imagery Enhancement with Multi-Channel Histogram Equalization, Depth-Adaptive Correction, and Deep Reinforcement Learning”, Journal of electrical systems, 20-5s (2024) 1984-1992, 6/1/2024</li> <li>2) Justin Raj, Y.; Bovas Herbert Bejaxhin, A.; Madhumitha, R.; Anitha, A.S.; Gehani, H.; Abdullah, A.; Naveenprabhu, V., “Experimental Analysis of EDM Parameters on D2 Die Steel Using Nano-aluminum Composite Electrodes” , Journal of Environmental Nanotechnology</li> </ol> <p><b>Conference publications</b></p> <ol style="list-style-type: none"> <li>1) Shirley Selvan, Srimathi Jayaraman, Srinivedhini Varadharajan, Madhumitha Rajendran, Elaveni Palanivel and Jaspin Kumaresan, “Smart Shoes for Fitness and Performance Analysis of Sportsmen ”, 2024 IEEE International Conference on Computing, Power and Communication Technologies, (IC2PCT)</li> <li>2) Madhumitha. R, Mrs. Maheswari. S, ‘Two-Stage Enhancement For Low QualityFingerprint Images In Spatial And Frequency Domain’, Proceedings of the National Conference on Recent Trends in Electrical and Electronics Engineering, NCRTEEE’ 2013.</li> </ol>
<b>FDP/ Conference /Workshop Attended</b>	:	<ol style="list-style-type: none"> <li>1) Effective AI tools for EnhancingTeaching, Learning and Research, July 1 to 6 2024, 6DAYS FDP organised by Xavier Engineering college .</li> <li>2) ATAL FDP, “Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to</li> </ol>

		<p>Space, and the Evolving Threat Landscape”, organised by St. Joseph’s college of engineering, from 14.10.2024 - 26.10.2024</p> <p>3) FDP on “Machine learning and deep learning -fundamentals and applications”, by NPTEL, July to October 2024</p> <p>4) FDP on “Artificial intelligence and optimisation techniques”, 21.11.22 to 25.11.22, NITTTR Chandigarh</p> <p>5) FDP ON MEDICAL IMAGE FUSION, 29.5.23 to 31.5.23, VIT, CHENNAI.</p> <p>6) National Level Faculty Development Programme on “Application of Innovative Soft Tools and Techniques in Research” conducted by Department of IT, Vivekanandha College of Technology for Women, Tiruchengode in association with Computer Society of India and Institution’s Innovation Council on 25th Feb, 2022.</p> <p>7) 6 hours FDP on Microsoft Azure fundamentals (ONLINE FDP) conducted by ICT Academy from 16th Feb 2022 to 18th Feb 2022</p> <p>8) Three days national workshop on “APPLICATIONS OF DEEP LEARNING IN COMPUTER VISION” from 10th to 12th Feb 2022</p> <p>9) WEBINAR ON RECENT TRENDS IN CYBER CRIME 13.06.2020</p> <p>10) FDP ON MEDICAL SIGNAL AND IMAGE ANALYSIS 15/06/2020 TO 17/06/2020</p> <p>11) IIT BOMBAY SPOKEN TUTORIAL FDP ON MOODLE, E-SIM, BIOPYTHON AND ARDUINO 1 week IIT BOMBAY ONLINE FDP</p> <p>12) One Week Online Faculty Development Programme on Artificial Intelligence for Real Time Applications organized by the Department of Artificial Intelligence and Data Science, Mepco Schlenk Engineering College during 25 - 29 April, 2022.</p> <p>13) Attended NPTEL workshop conducted by SVCE, Sriperumbudur.</p>
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<b>Patent Details</b>	:	<p>1) EXPLORING MACHINE LEARNING APPROACHES FOR AUTOMATED COVID-19 DETECTION AND FORECASTING published dated 02/08/2024</p> <p>2) AI with Cloud IoT Based Hybrid Solar Seawater Desalination Machine published dated 18/10/2024</p> <p>3) India 202141061786 AN IOT BASED CATTLE HEALTH MONITORING SYSTEM published dated 22.12.2021</p>
<b>Professional Societies</b>		IEEE membership since October 2024 -Computer Science Society