

Name	:	Dr.P.ILANGOVAN	
Designation	:	Assistant Professor	
Department	:	Computer Science and Engineering	
Educational Qualification	:	B.Tech., M.E., Ph.D.	
Subject of Interest	:	Big Data Analytics, Machine Learning, Cyber Security	
Certificate Completed	:	1. Microsoft Certified Trainer - Completed the course Cyber Security under Microsoft Philanthropies “Cyber Shiksha for Educators Program” . 2. Universal Human Values certified Trainer	
Corporate Trainer	:	Corporate Trainer on ICT Academy	
Publications :	:	International: 1. Ilangovan, P., Begum, M. S., & Srividhya, P. K. (2023). Development of online monitoring device and performance evaluation of biogas plants using enhanced methane prediction algorithm (EMPA). <i>Sustainable Energy Technologies and Assessments</i> , 56, 103041. <a href="https://doi.org/10.1016/j.seta.2023.103041">https://doi.org/10.1016/j.seta.2023.103041</a> <b>[IF:8] - Elsevier</b> 2. Pandian, I., Begum, S., & Kumaravel, S. P. (2021). An integrated IoT and fuzzy logic controller system for biogas digester to predict methane generation. <i>Environment, Development and Sustainability</i> , 1-13. <a href="https://doi.org/10.1007/s10668-021-01943-7">https://doi.org/10.1007/s10668-021-01943-7</a> . <b>[IF:4.9 (2022)] - Springer</b> 3. P, Ilangovan and P.K., Srividhya and A, George and M, Sharmilabegum, e-Monitoring of Gas Production in Bio Gas Plant (July 31, 2019). Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT) 2019, Available at SSRN: <a href="https://ssrn.com/abstract=3429686">https://ssrn.com/abstract=3429686</a> or <a href="http://dx.doi.org/10.2139/ssrn.3429686">http://dx.doi.org/10.2139/ssrn.3429686</a> . – <b>Elsevier SSRN</b> 4. Ilangovan, P., Marjuka, M. A., Dhiyaneshwaran, S., & Kumar, S. D. (2022, August). A Review on Developing Smart Mask for Individual Health Status Monitoring and Prediction. In <i>2022 3rd International Conference on Electronics and Sustainable Communication Systems</i>	

		<p>(ICESC) (pp. 1349-1354). <b>IEEE.</b></p> <p>5. P,Ilangoan, Dr.M.Sharmila Begum, Dr.P.K.Srividhya, Development of an IoT Model to Predict the Efficiency of Methane Production Using Machine Learning Algorithm, AIP Conference Proceedings, ISSN: ISSN:0094-243XE-ISSN:1551-7616 (<b>In Production</b>)</p> <p>6. Published a paper titled “<i>Support Vector Machine Based a New Recommendation system for selecting movies</i>” in Turkish Journal of Computer and Mathematics Education ISSN1487-150, Vol12 No.10, April 2021 (<b>Scopus Indexed</b>)</p> <p>7. Published a paper titled “<i>Pilot Drone for Convoy Escort</i>” published in International Journal of Recent Technology and Engineering (IJRTE), Volume 8, issue 4, published by blue eyes intelligence &amp; sciences publication (<b>Scopus Indexed</b>)</p> <p>8. Published a paper titled “<i>A Survey – Automated paddy leaf disease detection using machine learning</i>” in The International Journal of Analytical and Experimental Modal Analysis, volume 12, issue IV published by IJAEMA.</p> <p>9. Published a paper titled “<i>APPs on e Governance for solid waste management</i>” in International Journal of Computer Science and Engineering, volume 5 published by IJCSE (<b>UGC Care</b>)</p> <p>10. Published a paper title “<i>A Comparative study on three big data analytics tool</i>” published in International Journal of Advanced Scientific Research and Management, volume 3, issue 9 published by IJASRM, ISSN: 2455-6378.</p> <p>11. Published a paper titled “<i>A Study on big data visual analytics</i>” published in Indian Journal of Scientific research. Published a paper titled “<i>A Study on Big Data and Hadoop Storage System</i>” published in International Journal of Trend in Research and Development a special issue in NCSMAC-16.</p>
<p>Paper presented in National and International conferences</p>	<p>:</p>	<p>1. Presented a paper titled “<i>A review on developing a smart mask to monitor the health status of the person</i>” in second international conference on artificial intelligence and smart computing (ICAISC-22) held on 11<sup>th</sup> and 12<sup>th</sup> March 2022 at Bannari Amman Institute of Technology, Sathyamangalam.</p> <p>2. “<i>Development of Online Monitoring Device and Performance</i></p>

*Evaluation of Biogas Plants using Enhanced Methane Prediction Algorithm*” in the International Conference on water, Energy & Environment (WEECON2021) conducted on 23<sup>rd</sup> and 24<sup>th</sup> December 2021, Organized by ISET Research India.

3. Presented a paper titled “*An integrated IOT and fuzzy logic controller system for biogas digester to predict methane generation*” in International Conference on Energy and Environment ICEE 2021 9<sup>th</sup> and 10<sup>th</sup> April 2021 held at Jyothi Engineering College, Thrissur.
4. Presented a paper titled “*A Comparative study on survey for movie and music recommendation system*” in international conference on recent advances in computation, communication, internet of things and artificial intelligence ICRACIA 2021 held at M.Kurarasamy college of engineering on 31<sup>st</sup> march and 1<sup>st</sup> April 2021.
5. Presented a paper titled “*support vector machine based a new recommendation system for selection of movies and music*” in international conference on digitalization for business sustainability in corona phase on 8<sup>th</sup> and 9<sup>th</sup> April 2021.
6. Presented a paper titled “*An IoT model for Biogas prediction using sensors and machine learning algorithm*” in the 5<sup>th</sup> International conference on recent advances in material chemistry (ICRAMC 2021) held at SRM Institute of Science and Technology on 18<sup>th</sup> – 20<sup>th</sup> February 2021.
7. Presented a paper titled “*Automated paddy leaf disease detection using machine learning*” in the International Conference On Advanced Technologies in Power and Robotics Engineering conducted at Arasu Engineering College, Kumbakonam during 20<sup>th</sup> and 21<sup>st</sup> February 2020
8. Presented a paper titled “*e-Monitoring of Gas Production in Bio Gas Plant*” (July 31, 2019). Proceedings of International Conference on Recent Trends in Computing, Communication & Networking Technologies (ICRTCCNT) 2019, available at SSRN: <https://ssrn.com/abstract=3429686> or <http://dx.doi.org/10.2139/ssrn.3429686>
9. Presented a paper titled “*Predicting heart attack through wrist*

		<p><i>watch nano sensor</i>”in in international conference on disaster mitigation and management organized by Periyar Maniammai University on 28<sup>th</sup> February 2013.</p> <p>10. Presented a paper titled “<i>Design and Implementation of Cloud Based Education System model using Tablet PC in rural India</i>” in National Conference on Efficient implementation of recent IT trends for rural development organized by Periyar Maniammai university on 23<sup>rd</sup> September 2011.</p> <p>11. Presented a paper titled “ <i>A Multiple Average Threshold Active Queue Management Mechanism for Emergency Traffic</i>” in international conference on algebra and its application held at Periyar Maniammai University on 14<sup>th</sup> December 2012.</p> <p>12. Presented a paper titled “ <i>Discovering new knowledge by interacting two services</i> “ in national conference on emerging technologies in advance computing held at MIET Engineering college on 4<sup>th</sup> November 2012.</p> <p>13. Presented a paper titled “<i>An Effective and Efficient key distribution scheme for wireless sensor networks</i>” held at PSNA college of Engineering and Technology on 21<sup>st</sup> March 2012.</p>
Funded Projects	:	<p>1. Received <b>Rs.47,000</b> / for a seed money project proposal from Periyar Maniammai Institute of Science &amp; Technology as Co-Investigator titled “e Monitoring of Gas Production and Performance Analysis of Biogas Digester” completed the project for the year 2019-2020. (PMIST Sanction Reference Letter: Lr. No. 0227/Registrar/2019-20/Date:31.10.2019)</p> <p>Outcome: 2 Papers published in Scopus indexed journals</p> <p>1 patent published</p> <p>2. Prepared and documented work for Bhuvan Mapping project and Received <b>Rs. 15,000</b> towards mapping of the villages and water bodies in Periyar PURA Villages from ISRO Bhuvan on 2014.</p> <p>Outcome : Mapping completed in Bhuvan App developed by ISRO</p>
Patent Published	:	<p>1. As applicant and developer for copyright in the software Brilliant Resource for Academic Institution (BRAIN) V2.13 Software Date 12<sup>th</sup>,March 2018 (SW-10238/2018)</p> <p>2. As Applicant and Inventor Patent published in online journal “<i>IoT</i>”</p>

	<p><b><i>Based Warehouse Safeguard System for Harvested Agricultural Crops</i></b>” Application no:202141016995 Date of filing of Application:12/04/2021 and Publication Date: 23/04/2021.</p> <p>3. As Applicant and Inventor Patent published in online journal <b><i>“Design and Fabrication Prototype of Biogas Digester for Anaerobic Digestion Process to Predict Methane”</i></b> Application no: 202141018013 Date of filing of Application: 19/04/2021 and Publication Date: 30/04/2021.</p> <p>4. As Applicant and Inventor Patent published in online journal <b><i>“Coconut Tree Climbing Robot”</i></b> Application no: 20241020112 Date of filing of Application: 14<sup>th</sup> May 2021and Publication Date: 23/04/2021.</p>
<p>Training and FDP Attended</p>	<ol style="list-style-type: none"> <li>1. Participated in five days online FDP on the theme inculcating Universal Human Values in Technical Education organized by All India Council for Technical Education (AICTE) from 22<sup>nd</sup> Nov 2021 to 26<sup>th</sup> Nov 2021.</li> <li>2. Participated in AICTE –ISTE sponsored online faculty development programme on Emerging Trends in Automation organized by Dept. of Mechanical Engineering and CETAT on 23<sup>rd</sup> to 28<sup>th</sup> Nov 2020.</li> <li>3. Participated in one week online faculty development programme on Data Science 24<sup>th</sup> August to 29<sup>th</sup> August 2021 organized by Department of Computer Science and Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur.</li> <li>4. Participated in 5 days FDP on Hadoop (Horton Works) conducted by ICT acaemy on 11<sup>th</sup> December to 15<sup>th</sup> December 2018 at Periyar Maniammai Institute of Science and Technology, Thanjavur.</li> <li>5. Completed one month AICTE FDP (FDP201x) on Pedagogy for online and blended teaching learning process conducted by Indian Institute of Technology, Bombay from 3<sup>rd</sup> May to 30<sup>th</sup> May 2018.</li> <li>6. Attended Three days State Level Workshop on <b><i>“Cracking Competitive Exams based on Mathematics”</i></b> Organized by Department of Mathematics, PMIST from 25<sup>th</sup> to</li> </ol>

27<sup>th</sup>February2020.

7. Participated in National Seminar on “*Awareness and Services Provisions for Persons with Multiple Disabilities for requiring Early Rehabilitation in Tamilnadu*” from 3<sup>rd</sup> to 5<sup>th</sup> December2019.
8. Attended Two days training on “Web Based Development” on 4-5 October 2012 organized by Department of Information Technology, Periyar Maniammai University, Thanjavur.
9. Attended the workshop on “Windows Azure - Microsoft Cloud Platform” on 26<sup>th</sup> July 2012 organized by Department of Software Engineering, Periyar Maniammai University, Thanjavur.
10. Attended State level seminar on “Role of Information Technology in Journalism” on 12<sup>th</sup> October 2012 organized by Media Producer’s Club & Thinkers Club, Periyar Maniammai University, Thanjavur.
11. Attended Two days ISTE workshop on “AAKASH and its Application” on 5th November to 6th December 2012 organized by IIT, Bombay.
12. Attended Two week ISTE workshop on “Research Methodologies” on January 2012 organized by IIT, Bombay.
13. Attended Two week ISTE workshop on “Database Management Systems” on 11th November to 21 st May 2012 organized by IIT, Bombay.
14. Attended One day workshop on “LATEX SOFTWARE TRAINING PROGRAMME” on 27<sup>th</sup> July, 2013, Periyar Maniammai University, Thanjavu
15. Attended one week faculty recharging programme on Web Application Development using PHP and Android organized by Department of Information Technology in association with CSI Thanjavur chapter Periyar Maniammai University from 18020 May 2016.
16. Participated in One Week Workshop on “*Statistical tools on ResearchMethodology*” at Periyar Maniammai Institute of Science & Technologyfrom07.01.2019to 11.01.2019
17. Attended one week FDP on Research Methadology organized by Parisutham Institute of Technology and Science , Thanjavur from 24<sup>th</sup> and 25<sup>th</sup> September 2015.
18. Attended FDP on Teaching and Learning 2<sup>nd</sup> to 7<sup>th</sup> January 2017

		<p>organized by Periyar Maniammai University, Thanjavur</p> <p>19. Attended one month FDP on “<i>Foundation Program in ICT for Education</i>” Conducted by IIT Bombay from August 3, 2017 to September 7, 2017</p> <p>20. Attended one week Workshop on “<i>Mobile App Development</i>” during 20.3.17 to 25.3.17 at Prasartech Projects &amp; Solutions, Thanjavur</p> <p>21. Participated in two day workshop on “<i>Skill Up-gradation and Training Needs for University Teachers</i>” on 27<sup>th</sup> and 28<sup>th</sup> January 2017 at Periyar Maniammai University</p> <p>22. Attended one day workshop on “<i>Android Application Development</i>” held on 27.9.16 at Sysway, Thanjavur</p> <p>23. Attended Two days FDP on “<i>Question Paper Setting and Evaluation Reforms</i>” on 28<sup>th</sup> and 29<sup>th</sup> December 2015, at Periyar Maniammai University, Thanjavur.</p> <p>24. Participated Two Week ISTE STTP on “<i>Introduction to Design of Algorithms</i>” from 27<sup>th</sup> April to 30<sup>th</sup> May 2015 at Periyar Maniammai University, Thanjavur.</p> <p>25. Participated in one day workshop titled “<i>Tackling the Challenges of Bigdata: Exploring the Research Opportunities</i>” organized by Department Computer Science and Application on 26.8.15 at PMIST.</p> <p>26. Participated in one-week ISTE Workshop on “<i>Computer Programming</i>” Conducted by IIT, Bombay May, 2014 at Periyar Maniammai University, Thanjavur.</p> <p>27. Participated in Two-week ISTE Workshop on “<i>Database Management Systems</i>” Conducted by IIT, Bombay from 21<sup>st</sup> to 31<sup>st</sup> May, 2013 at Periyar Maniammai University, Thanjavur.</p> <p>28. Participated in Two-day ISTE Workshop on “<i>Aakash for Education</i>” Conducted by IIT, Bombay from 10<sup>th</sup> to 11<sup>th</sup> November, 2012 at Periyar Maniammai University, Thanjavur.</p>
Book Published	:	1. Published a book titled "Arduino Programme (a guide for tyro)" with ISBN 978-93-9450358-8
Awards and Achievements	:	<ul style="list-style-type: none"> <li>• Received <b>Overall Excellence Chancellor Award</b> for the Year 2022</li> <li>• Received best team player award in overall performance in the</li> </ul>

		<p>Institute 2019</p> <ul style="list-style-type: none"> <li>• Received Best Teacher Faculty Award in the Annual Day for the Academic Year 2018.</li> <li>• Received Best Teaching Staff Award from Periyar Maniammai Institute of Science &amp; Technology for the Academic Year 2018 - 2019</li> <li>• Received award for the successful competition of the Periyar 1000 Quiz by periyar self-respect propaganda Institution on the 60<sup>th</sup> year of PSRPI</li> <li>• Received award for the speech about Green Practices in PMU in Anoka 2012 @ AMRITA University , Coimbatore</li> </ul>
Google Scholar Link	:	<a href="https://scholar.google.com/citations?user=mgBS7uQAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=mgBS7uQAAAAJ&amp;hl=en</a>
Contact Address	:	<p>Dr.P.ILANGO VAN</p> <p>Assistant Professor (SS)</p> <p>Department of Computer Science and Engineering</p> <p>Periyar Maniammai Institute of Science &amp; Technology</p> <p>Vallam, Thanjavur, Tamilnadu</p> <p>Mobile : +91 9500978189</p> <p>Email: <a href="mailto:ilangovanp@pmu.edu">ilangovanp@pmu.edu</a></p>