



### **E.G.S. Pillay Engineering College**

An Autonomous Institution Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi

Accredited by NBA T1 (B.E. – CIVIL, CSE, ECE, EEE, MECH & B.Tech – IT)

Accredited by NAAC with A++ Grade | One among Top 300 Engineering Institutions in India (NIRF-24)

Old Nagore Road, Thethi, Nagore Village, Nagapattinam – 611002, Tamil Nadu, India

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING** **Academic Year (2024-2025)**

### **FACULTY ACHIEVEMENTS**

<b>S.NO</b>	<b>ACHIEVEMENT DETAILS</b>	<b>COUNT</b>
1.	PATENT	2
2.	COPYRIGHT	1
3.	SCI JOURNAL PUBLICATIONS	28
4.	SCOPUS JOURNAL PUBLICATIONS	5
5.	SCOPUS -IEEE CONFERENCE PUBLICATIONS	14
6.	UGC JOURNAL PUBLICATIONS	1
7.	IEEE CONFERENCE PARTICIPATION	16
8.	INTERNATIONAL CONFERENCE PARTICIPATION	3
9.	MAJOR PROPOSAL SUBMISSION	4
10	TNSCST STUDENT PROPOSAL SUBMISSION DETAILS	6
11	TNSCST STUDENT PROJECT SELECTION	1
12	BOOK PUBLICATION	3
13	EDITOR FOR BOOK CHAPTER	1
14	NPTEL EXAM CERTIFICATION	11

15	NPTEL –FDP	11
16	GUEST SPEAKER	2
17	SEMINAR ATTENDED	3
18	ONLINE COURSE COMPLETION	1

**R&D Coordinator**

Mrs.M. KAVITHA

Assistant Professor / ECE

**HOD**

Dr.M.MALATHI,  
Professor & HOD/ECE

**JULY 2024 -JUNE 2025**

**PATENT DETAILS:**

<b>S.No</b>	<b>Name of the Faculty</b>	<b>Title of the Invention</b>	<b>Patent/IPR/ Copyright</b>	<b>Organization</b>	<b>Application Number</b>	<b>Publication Date</b>
1	Mrs.M.Kavitha, Assistant Professor,	Intelligent Brain-Computer Interface System to operate Prosthetic Limbs of Paralyzed People ( 2 <sup>ND</sup> Position)	Patent	Intellectual Property India	202441068447A	Journal No:38/2024 pp.84675. Filed on 16.08.24 Published on 20.09.24
2	1.Dr.S.Senthilkumar, Associate Professor, 2.Dr.M.Malathi, Professor, 3.Dr.R.S.Koteeshwari, Assistant Professor, 4.Mrs.M.Kavitha, Assistant Professor, 5.Mrs.K.Vembarasi, Assistant Professor, 6.Mr.L.Anbazhagan, Assistant Professor, 7.Ms.S.G.Praveena, Assistant Professor	Hybrid Power source in Fish Farming with Help of IoT Technology	Patent	Intellectual Property India	202541026236 A	21.03.2025- Filed 28.03.2025- Published

**COPYRIGHT DETAILS:**

S.No	Faculty Name	Title of the invention	Registration NO.	Date of acknowledgement
1.	Dr.M.Malathi, Professor,	Optimizing Agricultural Infrastructure: Aerial Planting with Autonomous Drones for Precision Farming	L-161574/2025	27.02.2025

**SCI JOURNAL PUBLICATIONS:**

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	<b>D. Devarajan, P. Dhanalakshmi , S. Krishnaveni&amp;S. Senthilkumar</b>	Scientific Reports	Human monkeypox disease prediction using novel modified restricted Boltzmann machine-based equilibrium optimizer	Nature Profolio, JULY, (2024) 14:17612	<b>SCI</b> <a href="https://doi.org/10.1038/s41598-024-68836-3">https://doi.org/10.1038/s41598-024-68836-3</a>
2	G. Gurumoorthi, <b>S. Senthilkumar,</b> G. Karthikeyan, Faisal Alsaif,	Scientific Reports	A Hybrid Deep Learning Approach to Solve Optimal Power Flow Problem in Hybrid Renewable Energy Systems	14, Article number: 19377 (2024)Aug 2024	DOI: <a href="https://doi.org/10.1038/s41598-024-69483-4">https://doi.org/10.1038/s41598-024-69483-4</a> . <b>SCI</b>
3	G. Kirithiga, <b>S. Senthilkumar,</b> Mohammed Alharbi, S.P.Mangayarkarasi,	Scientific Reports	Design of modified long short-term memory-based zebra optimization algorithm for limiting the issue of SHEPWM in multi-level inverter	<b>14,</b> Article number: 22439 (2024) Se 2024	<b>SCI Indexed</b> <a href="https://doi.org/10.1038/s41598-024-73308-9">https://doi.org/10.1038/s41598-024-73308-9</a>
4	V.Parthasaradi, A.Karunamurthy,	Wiley	Efficient Task Scheduling in Cloud Computing:	15 October 2024	DOI: <a href="https://doi.org/10.1155">https://doi.org/10.1155</a>

	C. H. Hussaian Basha, <b>S. Senthilkumar</b>		A Multi objective Strategy Using Horse Herd– Squirrel Search Algorithm		<a href="#">/2024/1444493</a>  <b>SCI</b>
5	S. Kumarganesh, <b>Malathi Murugesan</b> , C. Ganesh, N. Santhiyakumari, M. Thangavel, K Jayaram , K. Martin Sagayam, Binay Kumar Pandey, Digvijay Pandey	Springer- Plasmonics	Hybrid Plasmonic Biosensors with Deep Learning for Colorectal Cancer Detection	November 2024	DOI: <a href="https://doi.org/10.1007/s11468-024-02568-y">https://doi.org/10.1007/s11468-024-02568-y</a>  <b>SCI</b>
6	1. S. Elarmathi, 2. P. Rishabavarthani , 3.M. Sindhuja, 4.P. Elayaraja, <b>5.Malathi Murugesan</b> , 1.S. Kumarganesh 6.Martin Sagayam, 7. Binay Kumar Pandey, 8.Digvijay Pandey	Springer- Plasmonics	Novel manufacturing systems for cancer diagnosis using ultra-sensitive photonic crystal fiber biosensor with dual-functionalized aptamer nanocavity	December2024	DOI: <a href="https://doi.org/10.1007/s00542-024-05820-x">https://doi.org/10.1007/s00542-024-05820-x</a>  <b>SCI</b>
7	M Anusuya, M Mohammed Asif, SrinivasChitturi, E Balaji, M Ravichandran, G Yedukondalu, E Shankar, <b>A Rajaram</b>	Surface Review and Letters	DRL-Based Kinetic and Thermal Energy Property Detection for Welded Joint Performance Analysis	2024	<a href="https://www.worldscientific.com/doi/abs/10.1142/S0218625X25500362">https://www.worldscientific.com/doi/abs/10.1142/S0218625X25500362</a>  <b>SCI-Ex</b>
8	R Elavarasan, <b>A Rajaram</b>	Sustainable Computing: Informatics and Systems	Distributed clustering model for energy efficiency based topology control using game theory in wireless sensor networks	2024	<a href="https://www.sciencedirect.com/science/article/abs/pii/S221053792400060X">https://www.sciencedirect.com/science/article/abs/pii/S221053792400060X</a>  <b>SCI-Ex</b>
9	K NarasimhaRaju, V Sudha, Pravin R Kshirsagar, VineetTirth, <b>A Rajaram</b>	Multimedia Tools and Applications	Intelligent traffic prediction system using hybrid convolutional neural networks for	2024	<a href="https://link.springer.com/article/10.1007/s11042-024-20420-7">https://link.springer.com/article/10.1007/s11042-024-20420-7</a>  <b>SCI-Ex</b>

			smart cities		
10	DiwakarBhardwaj, N Nagabhooshanam, Ajeet Singh, B Selvalakshmi, SanjeevkumarAngadi, S Shargunam, Tapas Guha, GurkirpalSingh, <b>A Rajaram</b>	Multimedia Tools and Applications	Enhanced satellite imagery analysis for post-disaster building damage assessment using integrated ResNet- U-Net model	2024	<a href="https://link.springer.com/article/10.1007/s11042-024-20300-0">https://link.springer.com/article/10.1007/s11042-024-20300-0</a> <b>SCI-Ex</b>
11	JayaprakashChinnadurai, A Karthik, JanjhyamVenkata Naga Ramesh, Sudipta Banerjee, PV Rajlakshmi, KatakamVenkateswaraRa o, D Sudarvizhi, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Enhancing online education recommendations through clustering- driven deep learning	2024	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424007274">https://www.sciencedirect.com/science/article/abs/pii/S1746809424007274</a> <b>SCI-Ex</b>
12	G Arulselvan, <b>A Rajaram</b>	Wireless Networks	Routing attacks detection in MANET using trust management enabled hybrid machine learning	2024	<a href="https://link.springer.com/article/10.1007/s11276-024-03846-7">https://link.springer.com/article/10.1007/s11276-024-03846-7</a> <b>SCI-Ex</b>
13	PhaneendraChiranjeevi, <b>A Rajaram</b>	Multimedia Tools and Applications	A smart recommender model based on learning method for sentiment classification	2024	<a href="https://link.springer.com/article/10.1007/s11042-024-20347-z">https://link.springer.com/article/10.1007/s11042-024-20347-z</a> <b>SCI-Ex</b>
15	Rajesh Kumar Patnaik, YagyaDuttaDwivedi, Bipin Kumar Srivastava, A Arulmozhi, DVSSSV Prasad, SurryaPrakashDillibabu, Amara SALG Gopala Gupta, <b>A Rajaram</b>	Surface Review and Letters	Metal-supported solid oxide fuel cells: synthesis and electrochemical properties analysis using optimization method	2024	<a href="https://shibata.yubetsu.com/article/9LTe6sCi">https://shibata.yubetsu.com/article/9LTe6sCi</a>
16	Kamal Sharma, N Nagabhooshanam, ShivakrishnaDasi, J Guntaj,	Desalination and Water Treatment	Design and implementation of closed-loop water reuse systems in	2024	<a href="https://www.sciencedirect.com/science/article/pii/S194439862420360">https://www.sciencedirect.com/science/article/pii/S194439862420360</a>

	BhattiproluSrinivas, KamaljeetKaur, <b>A Rajaram</b>		urban and industrial settings for maximizing resource recovery and minimizing waste		X <b>SCI-Ex</b>
17	A Karthik, Hatem SA Hamatta, Sridhar Patthi, C Krubakaran, Abhaya Kumar Pradhan, VenubabuRachapudi, Mohammed Shuaib, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Ensemble-based multimodal medical imaging fusion for tumor segmentation	2024	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424006086">https://www.sciencedirect.com/science/article/abs/pii/S1746809424006086</a> <b>SCI-Ex</b>
18	Rajendra Kumar Ganiya, D Veeraiah, VenkataNagarajuThatha, KattaSubbaRao, J NageswaraRao, RamaswamyManjith, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Revolutionizing vascular health through the temporal convolutional transformer for drug screening and model evolution	2024	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424004488">https://www.sciencedirect.com/science/article/abs/pii/S1746809424004488</a> <b>SCI-Ex</b>
19	<b>M Nuthaal Srinivasan</b> , Mohammed Yacin sikkandhar, Mariyam alhassim, M.Chinnadurai	Scientific reports	Capsule Network approach for monkeyPox detection and subclassification in medical Imaging System	January 2025	DOI: <a href="https://doi.org/10.1038/s41598-025-87993-7">https://doi.org/10.1038/s41598-025-87993-7</a> <b>SCI</b>
20	<b>M Irshad Ahamed</b> , <b>R Ayyappa</b> , E Edward Anand , Raja Krishnamoorthy	Journal of Materials Science: Materials in Electronics	Investigation of thermally evaporated SnSe nano structure layer for photovoltaic use: a structural, morphological, and electrical analysis	January 2025	DOI: <a href="https://link.springer.com/article/10.1007/s10854-025-14299-9">https://link.springer.com/article/10.1007/s10854-025-14299-9</a> <b>SCI-Ex</b>

21	R. Manivannan, <b>S. Senthilkumar</b>	International Journal of Computational Intelligence Systems	Intrusion Detection System for Network Security using Novel Adaptive Recurrent Neural Network- based Fox Optimizer Concept	Feb 2025	DOI: <a href="https://doi.org/10.1007/s44196-025-00767-x">https://doi.org/10.1007/s44196-025-00767-x</a> .  (Springer - Q2)  SCI
22	PU Poornima, K Dhineshkumar, ChunduriKiran Kumar, S Sumana, MV Rama Sundari, P Sivaraman, Mohammed Shuaib, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Optimising rooftop photovoltaic adoption in urban landscapes: A system dynamics approach for sustainable energy transitions	2025	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424011297">https://www.sciencedirect.com/science/article/abs/pii/S1746809424011297</a>  SCI-Ex
23	A Karthik, Santosh Kumar Sahoo, Ajay Kumar, Nileshkumar Patel, P Chinnaraj, LakshmanaPhaneendraMa guluri, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Unified approach for accurate brain tumor Multi- Classification and segmentation through fusion of advanced methodologies	2025	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424009303">https://www.sciencedirect.com/science/article/abs/pii/S1746809424009303</a>  SCI-Ex
24	A Karthik, Sridhar Patthi, B Uma Maheswari, J Sirisha Devi, Abhaya Kumar Pradhan, G Balaji, G Nallasivan, <b>A Rajaram</b>	Biomedical Signal Processing and Control	Advancing idiopathic pulmonary fibrosis prognosis through integrated CNN- LSTM predictive modeling and uncertainty quantification	2025	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1746809424008693">https://www.sciencedirect.com/science/article/abs/pii/S1746809424008693</a>  SCI-Ex
25	D Jessintha, PonniBalaMuthiah, A Kavitha, A Arulmozhi, Ajeet Kumar Srivastava, LakshmanaPhaneendraMa guluri, RamaswamyManjith, VineetTirth, <b>A Rajaram</b>	Surface Review and Letters	Optimizing ON- State Current and RF Figures of Merit in hetero gate through Advanced Source Design	2025	<a href="https://www.worldscientific.com/doi/abs/10.1142/S0218625X25501264">https://www.worldscientific.com/doi/abs/10.1142/S0218625X25501264</a>  SCI-Ex
26	S SugaPriya, R Vijayabhasker, <b>A Rajaram</b>	Journal of Electrical Engineering &	Advanced Security and Efficiency Framework for Mobile Ad-Hoc	2025	<a href="https://link.springer.com/article/10.1007/s42835-024-02119-9">https://link.springer.com/article/10.1007/s42835-024-02119-9</a>



		Technology	Networks Using Adaptive Clustering and Optimization Techniques		<b>SCI-Ex</b>
27	K.Krishnaram, M.Rajakumaran, <b>S.Senthilkumar</b> , S.P.Mangaiyarkarasi, R.Gandhiraj	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	A Novel Hybrid MPPT Technique for a PV System Operated Under Partial Shading Conditions with Three Phase Interleaved Boost Converter	April 2025	DOI: <a href="https://link.springer.com/article/10.1007/s40998-025-00814-5">https://link.springer.com/article/10.1007/s40998-025-00814-5</a> <b>SCI</b>
28	G.Pushpa, R. Anand Babu, S. Subashree, <b>S. Senthilkumar</b>	Scientific Reports, 15, Article number: 16681 (2025).	Optimizing Coverage in Wireless Sensor Networks Using Deep Reinforcement Learning with Graph Neural Networks	ISSN 2045-2322 (Online), IF. 3.8. (Springer - Q1) May 2025	DOI: <a href="https://doi.org/10.1038/s41598-025-01841-2">https://doi.org/10.1038/s41598-025-01841-2</a> <b>SCI</b>

#### SCOPUS JOURNAL PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	<b>S. Senthilkumar</b> , V, Mohan, Mangaiyarkarasi, S.P. Mangaiyarkarasi, R. Gandhi Raj, K. Kalaivani, N. Kopperundevi, M. Chinnadurai, <b>M. Nuthal Srinivasan</b> , <b>L. Ramachandran</b>	Discover Applied Sciences	“Nature-inspired MPPT algorithms for solar PV and fault classification using deep learning techniques	vol. 7, no. 31, 2025.	<a href="https://doi.org/10.1007/s42452-024-06446-4">https://doi.org/10.1007/s42452-024-06446-4</a> .SCOPUS
2	R.Muthaiyan <b>S.Senthilkumar</b> C.Vijesh Joe M.Kavitha	Discover Applied Sciences	Reliability based multi-objective optimized routing protocol for VANETs using pelican optimization	March 2025	DOI:   <a href="https://doi.org/10.1007/s42452-025-06683-1">https://doi.org/10.1007/s42452-025-06683-1</a> <b>SCOPUS</b>

			algorithm		
3	P. Anand Raj, M. Rajakumaran, S. Palani Murugan, <b>S. Senthilkumar</b>	Springer	Hybridization of Metaheuristic Algorithms for Resource Scheduling in Distributed Robotic Control System	vol. 7, (2025), ISSN: 3004- 9261, IF: 2.8.	<b>DOI:</b> <a href="https://doi.org/10.1007/s42452-025-06950-1">https://doi.org/10.1007/s42452-025-06950-1</a> . <b>SCOPUS-Q2</b>
4	P. Anand Raj, S. Palanimurugan, <b>S. Senthilkumar</b>	Discover Applied Sciences	Bacterial Foraging Optimization Building Block Distribution Algorithm Based Dynamic Allocation in Multiple Robotic System	vol. 7, 327 (2025), ISSN: 3004- 9261, IF: 2.8.	<b>DOI:</b> <a href="https://doi.org/10.1007/s42452-025-06950-1">https://doi.org/10.1007/s42452-025-06950-1</a> . <b>SCOPUS-Q2</b>
5	<b>M.Malathi,</b> A.Surya, I.Subha, G.Prakash.	Journal of Neonatal Surgery	E-Learning Management System	June 2025	<b>DOI:</b>   <a href="https://www.jneonatalsurge.com/index.php/jns/article/view/7041">https://www.jneonatalsurge.com/index.php/jns/article/view/7041</a> <b>SCOPUS</b>

#### SCOPUS CONFERENCE PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	A. Vasantharaj, <b>M. IrshadAhamed,K.</b> Prema, A. Mudigonda, J. B. Sapaev and K. Thandapani	2023 International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD), Al- Najaf, Iraq, 2023,	Smart Prediction Models for energy Efficiency in smart residential Buildings: A Deep Learning Approach	pp. 343-348	doi: 10.1109/ICTEASD57136 .2023.10585084. <b>SCOPUS</b>

2	A. Mohamedyaseen; <b>B. R. Ayyappa;</b> C. MuntatherAlmusa wi; D. KanchanYadav; A llaevaGulchekhraJ algasov	2023 International Conference for Technological Engineering and its Applications in Sustainable Development (ICTEASD), Al- Najaf, Iraq, 2023,	Independent Hybrid Energy Systems Using Reliable Renewable energy Sources for Providing Sustainable Power and CO2 emission reduction	PP:222-227	doi: 10.1109/ICTEASD57136 .2023.10585072.  SCOPUS
3	<b>M. Kavitha,</b> C. H. Basha, V. Prashanth, <b>S. Senthilkumar,</b> V. Mohan and P. Arunkumar	2 <sup>nd</sup> IEEE International conference on Networks, Multimedia and Information Technology (NMITCON- 2024)	An Advanced Rice Plant disease classification through a modified efficient Net – Deep learning Model.	5 October 2024, pp:1-7	DOI: <a href="https://doi.org/10.1109/NMITCON62075.2024.10699161">10.1109/NMITCON62075.2024.10699161</a>
4	<b>L. Anbazhagan,</b> C. H. Basha, V. Prashanth, <b>S. Senthilkumar,</b> <b>M. Kavitha</b> and T. Senthil Kumar,		Data Security in cloud computing using Maritime search and rescue algorithm	4 October 2024, pp:1-6.	DOI: 10.1109/NMITCON62075.2024.10699273.
5	<b>V.Lakshmi Praba,</b> C. H. Basha, V. Prashanth, <b>S. Senthilkumar,</b> <b>M. Kavitha</b> and <b>L.Anbazhagan</b>		A hybrid Optimization based secured Communicatio n in wireless sensor networks through blockchain technology	October 2024	DOI: <a href="https://doi.org/10.1109/NMITCON62075.2024.10699203">10.1109/NMITCON62075.2024.10699203</a>

6	S. Sri Abirami, <b>M. Kavitha, S. Senthilkumar</b> , G. Sundaravadivel, G. Karthikeyan, T. Siva Kumar	2024 3rd International Conference on Advancing Technology for Sustainable Development, 21st – 23rd, November, 2024.	Self-charging Electric Vehicle by using Dynamo and Accident Detection System”	Feb 2025	10.1109/DELCON64804.2024.10866350.
7	<b>S. Senthilkumar</b> , C. H. Hussaian Basha, Saraswathy Bose, G. Sundaravadivel, <b>M. Malathi, M. Kavitha</b>	Fifth International Conference on Sustainable Communication Networks and Application ICSCNA 2024, 11-13, December 2024.	Nature-Inspired Moth Flame Optimization Based MPPT Algorithm for Solar PV System”,	Feb 2025	10.1109/ICSCNA63714.2024.10863904.
8	<b>M. Malathi, S. Senthilkumar</b> , C. H. Hussaian Basha, G. Sundaravadivel, <b>M. Kavitha</b> , P. Arunkumar	2024 Conference on Renewable Energy Technologies and Modern Communications Systems: Future and Challenges conference (RETMCS 2024). 11-12, December 2024, Shaqra University, Saudi Arabiya	Multi-Dialect Speech Recognition Using Transfer Learning and Transformer-Based Architectures: A Comprehensive Approach to Accurate and Efficient Dialect Identification	Feb 2025	10.1109/IEEECONF63577.2024.10880973
9	<b>S. Senthilkumar</b> , Gopika B S, S.P. Mangaiyarkarasi, R. Gandhi Raj, <b>M. Nuthal Srinivasan</b> , P.J. Suresh Babu,	2024 Conference on Renewable Energy Technologies and Modern Communications Systems: Future and Challenges conference (RETMCS 2024). 11-12,	Nature-Inspired Dragonfly MPPT Algorithm for Solar PV System	Feb 2025	10.1109/IEEECONF63577.2024.10881507

		December 2024, Shaqra University, Saudi Arabiya.			
10	<b>P. Janani Durga</b> , C. H. Hussaian Basha, Nelson Kennedy Babu Christopher, <b>S. Senthilkumar</b> , N. Rathina Kumar, <b>M. Kavitha</b> ,	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI — 2025), January 20-22, 2025, Surya Engineering College, Erode, Tamil Nadu, India.	Real-Time Speech Emotion Recognition Using Hybrid Transformer Networks for Mental Health Monitoring	ISBN: 979-8- 3315-0981-1.  Feb 2025	<a href="https://doi.org/10.1109/ICMSCI62561.2025.10894225">10.1109/ICMSCI62561.2 025.10894225</a>
11	<b>S.G. Praveena</b> , C. H. Hussaian Basha, <b>S. Senthilkumar</b> , R. Muthaiyan, E. Dinesh, S.Senthilkumar,  <b>M.Kavitha</b>	2nd International Conference on Computational Science, Communication Technology & Networking (CICTN 2025), ABES Engineering College, Ghaziabad, India, 6th -7th February, 2025.	Transparent AI Solutions for Parkinson's Disease Diagnosis and Monitoring: A Multimodal Deep Learning Approach	pp. 771-776, Mar 2025	10.1109/CICTN64563.2 025.10932471

12	Gurijala Sreedhar, CH Hussaian Basha, Shaik. Rafikiran, AVV Sudhakar, Faisal Alsaif, <b>S. Senthilkumar</b>	International Conference on Visual Analytics and Data Visualization (ICVADV- 2025), Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India. 4-6, March 202	Development of VSS-FOCV, and IC MPPT Controllers for PEMFC Systems	April 2025	DOI: 10.1109/ICVADV63329. 2025.10960861
13	<b>L. Anbazhagan;</b> CH Hussaian Basha; G. Dheepak; Thenmozhi P; S. Nachimuthu; D. Pushpalatha	2025 International Conference on Visual Analytics and Data Visualization (ICVADV)	Hybrid Solar- Wind Energy System with Enhanced Power Optimization Using Nature- Inspired Egret Swarm Algorithm	April2025	DOI: 10.1109/ICVADV6 3329.2025.10960824
14	A. Sathiya; <b>B. Prabhavathy;</b> A Balasupramani; Amutha A; L. Kavitha; R Saravanakumar	2025 International Conference on Visual Analytics and Data Visualization (ICVADV)	Low-Power Approximate Computing- based VLSI Architecture for Biomedical Signal Processing	April 2025	DOI: 10.1109/ICVADV6 3329.2025.10961086

### UGC JOURNAL PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	R.Nirmala, L.Megala, <b>M.Malathi</b>	ICTACT Journal On Microelectronics, October 2024, Volume: 10, Issue: 03	A Low Power and Area Reduction Multiplier Implementation Using Vedic Mathematics In 16nm FINFET Technology	ISSN: 2395-1680 (ONLINE)	DOI: 10.21917/ijme.2024.031 8  <b>UGC</b>

### IEEE CONFERENCE PARTICIPATION:

S.No	Staff Details	Conference Name	Paper Title	Participation details
1	Dr.S.SENTHILKUMAR Assistant Professor / ECE	2 <sup>nd</sup> IEEE International conference on Networks, Multimedia and Information Technology  (NMITCON-2024)	A hybrid Optimization based secured Communication in wireless sensor networks through blockchain technology	NITTE Meenakshi Institute of technologyYelahanka,  Bengaluru ,  August 9-10,2024
	Mrs.M. KAVITHA Assistant Professor / ECE			
	Mr.L.ANBAZHAGAN Assistant Professor / ECE			
	Ms.V.LAKSHMI PRABA Assistant Professor / ECE			
2	Dr.S.SENTHILKUMAR Assistant Professor / ECE		Data Security in cloud computing using Maritime search and rescue algorithm	
	Mrs.M. KAVITHA Assistant Professor / ECE			
	Mr.L.ANBAZHAGAN Assistant Professor / ECE			
3	Dr.S.SENTHILKUMAR Assistant Professor / ECE		An Advanced Rice Plant disease classification through a modified efficient Net –Deep learning Model.	
	Mrs.M. KAVITHA Assistant Professor / ECE			

4	<b>D. Devarajan,</b> R. Rajalakshmi, P. Sivakumar, <b>S. Senthilkumar,</b> <b>M. Malathi,</b> <b>L. Ramachandran,</b>	Proceedings of the Second International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS- 2024	Design and implementation of Frame work for Building Extraction using fast accurate Bilateral filter, Fast corner method and Improved Gaussian blur	M.P.N.Natchimuthu, M.Jeganathan Engineering College,Erode.
5	<b>S. Senthilkumar,</b> <b>S. Vetriselvi,</b> K. Kalaivani, P. Arunkumar, <b>M. Malathi,</b> S. Praveen Kumar		Super-Resolution Image using Enhanced Deep Residual Networks and the DIV2K Dataset	
6	<b>K. Vembarasi,</b> S. Praveen Kumar, T. Senthil Kumar, <b>S. Senthilkumar,</b> M. Rajakumaran, R. Ganeshamoorthy		Adaptive Error Correction and Machine Learning for Robust Optical Fibre Communication	
7	S. Subashree, P. Mahalakshmi, G. Pushpa, <b>S. Senthilkumar,</b> E. Saranya		Study on Efficiency of Bio Medical Data Extraction from PubMed Dataset using Elastic Search Engine	
8	J. Vanitha, C. Mallika, A. Hema, K. Parkavi, K.K. Shandhosh Shree, <b>S.Senthilkumar</b>		Detection System of Whaling Attack using Deep Learning Techniques	
9	<b>S. Senthilkumar,</b> R. Rajaganapathy, K.K. Shandhosh Shree, P. Krishnamoorthy, <b>L. Ramachandran,</b> <b>M. Kavitha,</b>	2024 International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG), 6-8 November. 2024	Quantum Key Distribution-Based Security Framework for Wireless Sensor Networks: Enhancing Resilience Against Classical and Quantum Cyber Threats	S. A. Engineering College (Autonomous), Chennai - 600077, India.
10	S. Sri Abirami, <b>M. Kavitha,</b> <b>S. Senthilkumar,</b> G. Sundaravadivel, G. Karthikeyan, T. Siva Kumar	2024 3rd International Conference on Advancing Technology for Sustainable Development, 21st – 23rd, November,	Self-charging Electric Vehicle by using Dynamo and Accident Detection System	BVICAM, New Delhi.



		2024.		
11	S.Senthilkumar, M.Malathi, M.kavitha	Fifth International Conference on Sustainable communication Networks and Application(ICSCN A0	Nature-Inspired Moth Flame Optimization based MPPT algorithm for solar PV system	Bharath Niketan Engineering College, India.  Dec 11-13,2024
12	S. Rajasri	10 <sup>th</sup> IEEE WIE Conference on Electrical and Computer Engineering	Design analysis of dual-band Reconfigurable frequency Selective surface unit cell for S-band and C-band application	10th IEEE WIECON ECE 2024 at College of Engineering, Guindy, Anna University, Chennai, India held on 6 th -7 th December, 2024
13	P.Jananidurga, S.Senthilkumar, M.kavitha	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI — 2025)	Real-Time Speech Emotion Recognition Using Hybrid Transformer Networks for Mental Health Monitoring	Surya Engineering College, Erode, Tamil Nadu, India. ISBN: 979-8-3315-0981-1 January 20-22, 2025.
14.	<b>S.G. Praveena</b> , C. H. Hussaian Basha, <b>S. Senthilkumar</b> , R. Muthaiyan, E. Dinesh, S.Senthilkumar,  <b>M.Kavitha</b>	2nd International Conference on Computational Science, Communication Technology & Networking (CICTN 2025)	Transparent AI Solutions for Parkinson's Disease Diagnosis and Monitoring: A Multimodal Deep Learning Approach	, ABES Engineering College, Ghaziabad, India, 6th -7th February, 2025.

S.No	Name of the authors	Conference Name	Paper Title	Organized by
15	Dr.S.Senthilkumar	International Conference on Research and Development in Information, Communication, and Computing Technologies (ICRDICTT 25), April 4th and 5th, 2025	Automated COPD Diagnosis from CT scans: A Hybrid Deep Learning and Machine Learning Approach with Explainable AI	E.G.S.Pillay Engineering College and Technology, April 4 <sup>th</sup> and 5th, 2025.

16	Dr.S.Senthilkumar		A Dynamic Control Framework for Solar PV-Wind-Battery Hybrid Systems Using MPC, ANFIS, and PSO: Enhancing Grid Stability and Renewable Integration	
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#### INTERNATIONAL CONFERENCE PARTICIPATION:

S.No	Name of the authors	Conference Name	Paper Title	Organized by
1	Dr.M.Malathi	International Conference on Advanced Innovation in Technologies(ICAIT-2025)	Revolutionizing Smart Farming Agriculture System using data analytics and matlab for sustainable yield	Arifa Institute of Technology, Feb 28, 2025.
2	Dr.M.Malathi	International Conference on Advanced Innovation in Technologies(ICAIT-2025)	Intelligence Mobile Robot	Arifa Institute of Technology, Feb 28, 2025.
3	Dr.M.Nuthal Srinivasan	International Conference on Innovative Research in Engineering and Technology(ICIRET-2025)	Smart weather station with Real time Data Capture and Logging Features	Department of IT & CSE, A.V.C College of Engineering, Mayiladuthurai, March 28,2025.

#### MAJOR PROPOSAL SUBMSSION:

S.No	Name of the PI and CO-PI	Title of the Research Proposal	Duration& Budget	Agency
1	PI: Dr.M.Priya, Professor/CSE, CO-PI:	Empowering Maternal Healthcare in Rural India:BridgingInfor	Rs.30,00,000	ICSSR

	<b>Dr.M.Malathi, Professor/ECE,</b>	mation Gaps through Enhanced Electronic Health Records for safer Childbirth		
2.	<b>PI: Dr.S.Senthilkumar, Assistant Professor/ECE CO-PI: Mrs.M.Kavitha, Assistant Professor/ECE</b>	Identification and rectification of faults in solar photo voltaic systems using IoT	2years Rs.10,00,000	TNSCST
3	<b>PI: Dr.M.Malathi, Professor/ECE CO-PI: Dr.R.Venkatesan, Assistant Professor/BME</b>	Fabrication and Characterization of Carbon –based thin film transistor for detection of maternal serum CRP using serum Biomarkers for enhanced Prenatal Care	2years Rs.4,60,000	TNSCST
4	<b>PI: Dr.C.Mathuvanesan Assistant Professor/ECE CO-PI: Mr.R.Ramanan, Assistant Professor/EEE</b>	IoT in Aquaculture:Enhan cing Prawn farming and Sustainability in Nagapattinam	2years Rs.6,00,000	TNSCST

**TNSCST STUDENT PROPOSAL SUBMISSION DETAILS:**

<b>S.No</b>	<b>Guide Name</b>	<b>Students Name</b>	<b>Title</b>	<b>Date of apply</b>
1	Dr.M.Malathi, Professor & HOD/ECE	K.Vidhya, M.Srilekha, R.Rajeshvani	Facial Recognition for automated attendance and emotion detector: Leveraging CNN model for Real-time Monitoring	09.09.24
2	Dr.M.Malathi, Professor & HOD/ECE	R.Sivaranjan, V.Gokul, N.Suman	Intelligent Intrusion detection system for secure zones using computer vision and ROI monitoring	
3.	Dr.S.Senthilkumar, Assistant Professor / ECE	T.Harini, R.Indhumathi, V.Mahalakshmi	Smart precision agriculture system for delta areas using FPGA and AI	
4.	Dr.M.Irshad Ahamed, Associate Professor / ECE	A.pelton Kevin Reagan T.A.Sarvas M.Vinothkumar	Real time water monitoring by arduino	
5.	Dr.M.Irshad Ahamed, Associate Professor / ECE	B.Mukilan, S.Rajbharath, N.suthasrin	Active mobile phone detector using RF signal for restricted areas	
6.	Dr.M.Nuthal Srinivasan, Assistant Professor / ECE	V.Kanishka, S. Deepika, J.Dasiya	Wireless Charging for electronic gadget to visually impaired people	09.09.24

**TNSCST STUDENT PROJECT SELECTION:**

S.No	Name of the Guide	Students Name	Paper Title	Sanctioned Amount
1	Dr.M.Malathi Professor & HOD/ECE	R.Sivaranjan, V.Gokul, N.Suman	Intelligent Intrusion detection system for secure zones using computer vision and ROI monitoring	Rs.7500

**REVIEWER CERTIFICATE:**

S.No	Faculty Details	Certification from
1	Dr.S.SENTHILKUMAR, Associate Professor / ECE	Energy Science and Engineering

**BOOK PUBLICATION:**

S.No	Staff Details	Name of the Book	Published date	Author Position
1	Ms.V.Lakshmipraba, / Assistant Professor ECE	Embedded System and IOT Design	ISBN:978-81-979284-4-4, Deccan International Academic Publishers,India.	First
2	Dr.M. Irshad Ahamed/ Associate professor	Advancements in Optoelectronics	ISBN:978-93-49076-10-5, Chyren Publishers, India	First
3	Dr.M. Irshad Ahamed Associate professor	Advanced Materials and their electronic devices for Future Semiconductor technologies	ISBN:978-93-49076-59-4, Chyren Publishers, India	First

**EDITOR FOR BOOK CHAPTER:**

S.No	Faculty Details	Book Title	Book Publication
1	Dr.S.SENTHILKUMAR Assistant Professor / ECE	Futuristic Trends in Renewable and sustainable energy Volume 3 Book 3	Iterative International Publishers E-ISBN:978-93-6252-320-4

**NPTEL EXAM CERTIFICATION:**

<b>S. No</b>	<b>Name in capital letters with initial at the end</b>	<b>Designation</b>	<b>Course Name</b>		<b>Marks secured in %.</b>
1	KAVITHA M	Assistant Professor	Digital Image Processing	July-Oct 2024 (12 weeks)	Elite certification with 60
2	ANBAZHAGAN.L	Assistant Professor	Introduction to Internet of Things	July-Oct 2024 (12 weeks)	Elite-Silver certification with 86
3	KAVITHA M	Assistant Professor	Deep Learning	(Jan-April) 12 Weeks	53
4	KAVITHA M	Assistant Professor	Embedded Sensing, Actuation and Interfacing Systems	(Jan-April) 12 Weeks	Elite certification with 60
5	SENTHILKUMAR S	Associate Professor	Embedded Sensing, Actuation and Interfacing Systems	(Jan-April) 12 Weeks	56
6	PRAVEENA S G	Assistant Professor	Embedded Sensing, Actuation and Interfacing Systems	(Jan-April) 12 Weeks	51
7	MATHUVANESAN C	Assistant Professor	Principles of Communication Systems -I	(Jan-April) 12 Weeks	Elite-Silver certification with 79
8	MALATHI M	Professor	Teaching And Learning in Engineering (TALE)	(Jan-April) 12 Weeks	Elite-Silver certification with 83
9	JANANI DURGA P	Assistant Professor	Principles of Communication Sytems- 1	(Jan-April)	54

				12 Weeks	
10	VETRISSELVI S	Assistant Professor	Embedded Sensing Actuation and interfacing Systems	(Jan-April) 12 Weeks	48
11	JANANI DURGA P	Assistant Professor	Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective	(Jan-April) 12 Weeks	60

**NPTEL-FDP:**

S.No	Staff Details	Course Name	Online Platform	Course duration
1	KAVITHA M	Digital Image Processing	NPTEL Online	July-Oct 2024 (12 weeks)
2	ANBAZHAGAN L	Introduction to Internet of Things		July-Oct 2024 (12 weeks)
3	KAVITHA M	Deep Learning		(Jan-April) 12 Weeks
4	KAVITHA M	Embedded Sensing, Actuation and Interfacing Systems		
5	SENTHILKUMAR S	Embedded Sensing, Actuation and Interfacing Systems		
6	PRAVEENA S G	Embedded Sensing, Actuation and Interfacing Systems		
7	MATHUVANESAN C	Principles of Communication Systems -I		
8	MALATHI M	Teaching And Learning in		

		Engineering (TALE)		
9	JANANI DURGA P	Principles of Communication Sytems- I		
10	VETRISSELVI S	Embedded Sensing Actuation and interfacing Systems		
11	JANANI DURGA P	Semiconductor Devices for Next Generation Field Effect Transistors (More than Moore): A Physics Perspective		

#### **FACULTY DEVELOPMENT PROGRAMME:**

<b>S.No</b>	<b>Faculty Details</b>	<b>Course Name</b>	<b>Platform</b>	<b>Date</b>	<b>Participation details</b>
1	Dr.V.SATHIYA Associate Professor / ECE	Google AI-ML	AICTE Training and Learning Academy Six days FDP (Physical Mode)	08.07.24 to 13.07.24	KSR College of Engineering(Au tonomous), Thiruchengode.
	Dr.M.NUTHAL SRINIVASAN Assistant Professor / ECE				
2	Mr.L.ANBAZHAGAN Assistant Professor / ECE	VLSI Testing and Design for Testability	Six days FDP (Physical Mode)Centre for Faculty and Professional Development ,Anna University	15.07.24 To 22.07.24	SNS College of Technology(Au tonomous), Coimbatore.
3	Mrs.M. KAVITHA Assistant Professor / ECE	Artificial Intelligence's Impact on Transforming Software, Robotics, Electrical, Electronics & Mechanical Fields	Six days FDP (online)	05.08.24 to 10.08.24	Dhaanish Ahmed College of Engineering, Chennai..
	Mr.L.ANBAZHAGAN Assistant Professor / ECE				



4	Dr.M.MALATHI, Professor & HOD/ECE	Harnessing Digital Healthcare Technologies: Biomarkers,I OT,Data Analytics and AI in Precision Medicine	Two Week FDP	05.08.24 to 17.08.24	Knowledge Institute of Technology,Sal em.
5	Dr.M.NUTHAL SRINIVASAN Assistant Professor / ECE	Demystifying Generative Artificial Intelligence Use Cases and Applications	Two Weeks International Virtual Professional Development Programme	08.08.24 to 22.08.24	SRM Institute of Science and Techonology, Ramapuram Campus.
6	Dr.S.SENTHILKUMAR Assistant Professor / ECE	Quantum Connections: Exploring InterDisciplina ry Applications and Insights	AICTE Training and Learning Academy Six days FDP (Physical Mode)	19.08.24 to 24.08.24	Prince Shri Venkateshwara Padmavathy Engineering College,
	Mrs.M. KAVITHA Assistant Professor / ECE				
	Dr.M.NUTHAL SRINIVASAN Assistant Professor / ECE				
	Ms.V.LAKSHMI PRABA Assistant Professor / ECE				
	Mrs.K.VEMBARASI Assistant Professor / ECE				
7	Mr.L.ANBAZHAGAN Assistant Professor / ECE	Integration of AI and IIoT for design of Solar Powered Electric vehicle charging infrastructure for green future	Seven days FDP	21.09.24 to 28.09.24	Erode Sengunthar Enigneering College

8	Ms.S.G.Praveena Assistant Professor / ECE	Advanced AI Tools for Preparing Research Papers	Two days Online FDP	From 08.11.24to 09.11.24	SASI Institute of Technology and Engineering.
9	Mrs.S.Vetriselvi Assistant Professor / ECE	Advancement s in Semiconducto r Design;FromI C flow to High Speed Architectures and Hardware Security	AICTE Training and Learning Academy 6days ATAL FDP	From 11.11.24to 16.11.24	SASTRA Deemed University, Thanjavur.
10	Mrs.S.Vetriselvi Assistant Professor / ECE	Collaborative Learning Tools for Digital Classroom	5days FDP-Online Mode	From 18.11.24to 22.11.24	National Institute of Technical Teachers Training and Research, Chennai
11	Dr.S.SENTHILKUMAR Assistant Professor / ECE	AI for SDGs under Unnat Bharat Abhiyaan	5days FDP-Online Mode	From 18.11.24to 22.11.24	National Institute of Technical Teachers Training and Research, Chandigarh, in association with . Vijaya Institute of Technology for women, Vijayawada.
	Mrs.M.Kavitha, Assistant Professor / ECE				
	Ms.S.G.Praveena Assistant Professor / ECE				
	Ms.V.THILAGA Assistant Professor / ECE				
12	Mrs.P.Jananidurga, Assistant Professor / ECE	Spray Studies in Engine Research using Image Analysis	Two days Online workshop	14 .12.24 to 15.12.24	Chennai Research Foundation
13	Dr.S.SENTHILKUMAR Assistant Professor / ECE	Emerging Trends in Wearable Device and The	AICTE Training and Learning Academy 6days ATAL FDP	From 9.12.24to 14.12.24	SNS COLLEGE OF TECHNOLOGY
	Dr.C.Mathuvanesan,				

	Assistant Professor / ECE	Future of Healthcare			
	Mrs.M.Kavitha, Assistant Professor / ECE				
	Ms.S.G.Praveena Assistant Professor / ECE				
	Ms.B.Prabavathy Assistant Professor / ECE				
	Mrs.S.Vetriselvi Assistant Professor / ECE				
14	Dr.R.S.KOTEESWARI Assistant Professor / ECE	Reconfigurable Intelligent Surfaces for 6G Wireless Communication: Fundamentals to Future Research Directions	AICTE Training and Learning Academy 6days ATAL FDP	From 23.12.24 to 28.12.24	National Institute of Technology, Trichy.
15	Dr.D.Devarajan, Associate Professor / ECE	Recent trends in 5G/6G Wireless Communication	AICTE Training and Learning Academy 6days ATAL FDP	From 06/01/2025 to 11/01/2025.	Samskruti College Of Engineering and Technology
	Dr.S.SENTHILKUMAR Assistant Professor / ECE				
	Dr.R.S.KOTEESWARI Assistant Professor / ECE				
	Mrs.M.Kavitha, Assistant Professor / ECE				
	Ms.B.Prabavathy Assistant Professor / ECE				
	Ms.S.G.Praveena Assistant Professor / ECE				

16	Ms.B.Prabavathy Assistant Professor / ECE	Developing Low –Power wireless IOT applications using MRuby	AICTE Training and Learning Academy 6days ATAL FDP	From 20/01/25 to 25/01/25	Jerusalem College of Engineering
17	Dr.R.S.KOTEESWARI Assistant Professor / ECE	AI-Enhanced 6G: Pioneering the Next Generation of Wireless Innovation	AICTE Training and Learning Academy 6days ATAL FDP	. From 10/02/2025 to 15/02/2025.	Bannari Amman Institute of Technology

#### INTERNAL FDP ATTENDED:

S.No.	Faculty Name	Title &Organized by	Date
1	Dr.M.Malathi	Revolutionizing the NBA Session; Exploring New Models for Competition& Civil Department-IQAC ,EGSPEC.	08.2.25
	Dr.V. Sathiya		
	Dr.M. IrshadAhamed		
	Dr.S. Senthilkumar		
	Dr.M.Nuthal Srinivasan		
	Mrs.R.S. Koteeshwari		

#### GUEST SPEAKER:

S.No	Staff Details	Name of the Program	Title & Date	Organized by
1	Dr.S.SENTHILKUMAR Assistant Professor / ECE	8 days Online FDP	Biomedical Engineering and Rehabilitation: Pioneering Innovations in the Development of Advanced Assistive Devices and adaptive Technologies & 27.12.24	Department of Biomedical Engineering, EGSPEC.

**SEMINAR ATTENDED:**

<b>S.No</b>	<b>Staff Details</b>	<b>Course Name</b>	<b>Platform</b>	<b>Participation details</b>
<b>1</b>	Mrs.M. KAVITHA Assistant Professor / ECE	OBE Implementation in Higher Education Institutions	Offline	E.G.S.Pilay Engineering College,On 14.08.24
<b>2</b>	Mrs.P.JANANI DURGA Assistant Professor / ECE	OBE Implementation in Higher Education Institutions	Offline	E.G.S.Pilay Engineering College,On 14.08.24
<b>3</b>	Dr.R.S.KOTEESWARI Assistant Professor / ECE	Two day seminar on Health Monitoring System for Building Structures using Deep Learning	2days Seminar Offline	National Institute of Technology Pudhucherry,Karaikal during 20 <sup>th</sup> &21 <sup>st</sup> Feb,2025.

**ONLINE COURSE COMPLETION:**

<b>S.No</b>	<b>Staff Details</b>	<b>Course Name</b>	<b>Online Platform</b>	<b>Course Completion</b>
<b>1</b>	Mrs.M. KAVITHA Assistant Professor / ECE	Image Processing on ramp	Matlab	30.07.24

## **PROGRAM EVENTS**

**(2024-2025) ODD SEM**

S.No	Event Date	Programme Title	Resource Person	Beneficiary	Faculty Coordinator
1	18.07.24	One day skill development hands on training on Digital, Eletronics Instruments.	Mr . V . Vijay Azhagan, Technical Manager, Techshine Lab, Chennai and Mr.K . Raju, Service Engineer/ECE, EGSPEC	Teaching Faculty Members and Lab Technicians	Dr.M. Malathi, Dr. S. Senthil kumar
2	26.07.24	Industry Interaction Event "Drone and Sensor technologies".	Mr. Nixon, Director, Techknot solutions, Chennai.	II year - Students	Dr . C. Mathuvanesan, Mr.L. Anbazhagan
3	27.07.24	Industry Interaction Event "5G Technology with Industry 4.0"	Dr. Prabhu, Chandar labs, Chennai.	III year Students	Dr.R.S. Koteeshwari, Mrs.M.Kavitha
4	05.08.24	Internaltional Seminar, Expanding Educational Frontiers: Benefits and outcomes of overseas Research collbaration.	Dr.Saahira Banu Ahamed / Research & project coordinator, Jazan University, Jazan Kingdom of Saudi Arabia.	Teaching Faculty members and ME Students	Dr.R.S. Koteeshwari, Ms.B.Prabhavathy
5	15.08.24 to 17.08.24	College tour	Tour Coordinator - Dr.L.Ramachandran	III, IV Year students	Dr.L.Ramachandran
6	01.09.24	IETE Sponsored Webinar on Exploring 6G and IOT : A visionary journey into the future of connectivity.	Dr.K.Prabu / AP, NITK , Karnataka.	II , III, IV Year students	Dr.D.Devarajan, Ms.V.Lakshmi praba
7	29.09.24	Webinar - ECE in Association with IQAC	Dr.Suresh Balanethiram / AP/ECE, Associate Dean (Academics), NIT Puducherry.	I, II, III Year students	Mrs.S.Vetriselvi, Mrs.K.Vembarasi.
8	01.10.24	Orientation session on life long learning (Yoga program - manavalakkalai arivu thirukoil)	Mr.P.Elamaran, Manavalakalai, Arivu Thirukkoil, Nagapattinam	II Year students	Mrs.P.Janani durga, Ms.B.prabavathi
9	05.10.24	Internaltional Symposium, FREQFEST 2K24	Dr.S.Tamizhchelvi, Prof & Head/ECE, PKIET, Karaikal	I year to Final year	Dr.R.S. Koteeshwari, Mrs. M.Kavitha
10	02.12.24 To 10.12.25	8 days online FDP on wearable devices : challenges and innovations proposal	Dr.M.Priya / prof , Dr.B.Thiyaneswaran /prof , Dr.Kumar padmanabh , Salom jerlin , Dr.T.Jayasree.	Faculty members	Dr.M. Malathi, Dr. S. Senthil kumar

**(2024-2025) EVEN SEM**

<b>S.No</b>	<b>Event Date</b>	<b>Programme Title</b>	<b>Resource Person</b>	<b>Beneficiary</b>	<b>Faculty Coordinator</b>
1	20.01.25 To 07.02.25	IBM skill build boot camp	EDUNET foundation	II & III ECE students	Mrs.K.Vembarasi , Ms.V.lakshimi praba
2	28.02.25	Industry Interaction Event "5G Technology with Industry 4.0"	Er.N.Vignesh, Principal Firmware Engineer, NXP semiconductor - Bangalore	I year ECE students	Ms.S.G.Praveena
3	28.02.25	Higher Education in future	Mrs . S.Anbuyazhini ,Founder & civil services Exam Trainer , S R IAS Academy - Thiruvavur Zone	I year ECE students	Ms.V.Lakshimi praba
4	28.02.25	Alumni conclave	Er.N.Vignesh, Principal Firmware Engineer, NXP semiconductor - Bangalore , Mrs . S.Anbuyazhini ,Founder & civil services Exam Trainer , S R IAS Academy - Thiruvavur Zone.	II & III ECE students	Dr.C.Mathuvanesan , Mrs.P.J anani surga.
5	02.03.25	webinar on "Innovations in communication engineering from IOT to quantum networks"	Dr.J.Samuel manoharan prof & head /BME, Jerusalem college of engineering , chennai.	II & III ECE students	Ms.S.G.Praveena
6	05.03.25	5G powered smart farming : use cases and applications.	Dr.Prabhu chandhar , Entrepreneur and researcher, Chandhar Researchlabs Pvt.Ltd .	II & III ECE students	Dr.RS.Koteeshwari , Mrs.P.J anani surga.
7	06.03.25	Gate awareness program	K.Ramya , gate & TNPSC trainer	I ,II & III year ECE students	Dr.RS.Koteeshwari
8	08.03.25	Webinar on "process of innovation development & technology readiness level"	Mrs . Rithika chandran , world record holder entrepreneur , Founder & Director , B R TRONICAL HUB PVT.LTD	II & III ECE students	Dr . V.Sathiy & Mrs .S.VetriselviS
9	10.03.25	ISTE sponsored workshop on "HANDS - ON TRAINING WITH HOME APPLIANCES"	Mr .K. Raju Service Engineer/ ECE	EEE & ECE students	Dr.S.Senthikumar

10	19.3.2025	webinar on "The future of embedded systems : trends and innovations"	Dr.M.Madhan kumar /AP , SRM Institute of science & technology	II & III ECE students	Mrs.M.kavitha , Ms.S.G.Praveena
11	21.03.25	SDG Symposium 2025 "A HACK FOR SOCIAL GOOD"	Dr.S.Senthikumar , Dr.M.Malathi , Dr.RS.Koteeshwari.	ECE I to IV year students	SDG Coordinator - Dr.S.Senthikumar , Dept coordinators Dr.R.Deepa , Mrs.K.Vembarasi.
12	24.03.25 to 26.03.25	3 days workshop on MATLAB: MATLAB for the future : Bridging Technology and Innovation	1 . Gowtham Rajmohan , Sr.Application Engineer , MATLAB , ARK Infosolutions Pvt Ltd , Chennai. 2.Er.Afsal and 3.Er.Karthikeyan , ARK Infosolutions Pvt Ltd , Chennai.	ECE ,EEE , BME ,AIDS Students.	Dr.C.Mathuvanesan
13	5.5.2025 to 16.5.2025	Value Added Course - 1. Digital Electronics & PCB - SJB 101 2. Robotics and IoT - SJB 102 3. IoT and Smart Home - SJB 115	Techknots Academy	ECE	Dr.C.Mathuvanesan, Mrs.P.Jananiidurga
14	5.5.2025 to 16.5.2025	Value Added Course - Digital Electronics and Circuits with ARM CortexM and its Applications	Enthu Technology Solutions India Pvt Ltd	ECE	Mrs.K.Vembarasi, Ms.V.Lakshmipraba
15	6.5.2025 to 16.5.2025	Value Added Course - Digital Design and Verification & Physical Design	Entuple Technologies Pvt Ltd	ECE	Mrs.K.Vembarasi, Ms.V.Lakshmipraba

#### FILE INCHARGE

Mrs.M. KAVITHA  
Assistant Professor / ECE

#### HOD

Dr.M.MALATHI,  
Professor & HOD/ECE