



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

2024-2025) Odd Semester

STAFF ACHIEVEMENTS

JULY-FEB(2024-2025)

PATENT DETAILS:

S.No	Name of the Faculty	Title of the Invention	Patent/IPR/Copyright	Organization	Application Number	Publication Date
1	Mrs.M.KAVITHA, AP/ ECE	Intelligent Brain-Computer Interface System to operate Prosthetic Limbs of Paralyzed People (2 ND Position)	Patent	Intellectual Property India	202441068447A	Journal No:38/2024 pp.84675. Filed on 16.08.24 Published on 20.09.24

SCI JOURNAL PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	D. Devarajan, P. Dhanalakshmi, S. Krishnaveni & S. Senthilkumar	Scientific Reports	Human monkeypox disease prediction using novel modified restricted Boltzmann machine-based equilibrium optimizer	Nature Profolio, JULY, (2024) 14:17612	SCI https://doi.org/10.1038/s41598-024-68836-3
2	G. Gurumoorthi, S. Senthilkumar,	Scientific	A Hybrid Deep Learning	14, Article number: 19377	DOI: https://doi.org/10.1038/s41598-024-

	G. Karthikeyan, Faisal Alsaif,	Reports	Approach to Solve Optimal Power Flow Problem in Hybrid Renewable Energy Systems	(2024)	69483-4.
3	G. Kirithiga, S. Senthilkumar , 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	14 , Article number: 2 2439 (2024)	SCI Indexed https://doi.org/10.1038/s41598-024-73308-9
4	V.Parthasaradi, A.Karunamurthy, C. H. Hussaian Basha, S. Senthilkumar	Wiley	Efficient Task Scheduling in Cloud Computing: A Multi objective Strategy Using Horse Herd– Squirrel Search Algorithm	15 October 2024	DOI: https://doi.org/10.1155/2024/1444493 SCI
5	S. Kumarganesh, Malathi Murugesan , 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: https://doi.org/10.1007/s11468-024-02568-y SCI
6	1. S. Elarmathi, 2. P. Rishabavarthani , 3.M. Sindhuja, 4.P. Elayaraja, 5.Malathi Murugesan , 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: https://doi.org/10.1007/s00542-024-05820-x SCI

7	M Nuthaal Srinivasan, Mohammed Yacin sikkandhar, Mariyam alhassim, M.Chinnadurai	Scientific reports	Capsule Network approach for monkeyPox detection and subclassification in medical Imaging System	January 2025	DOI: https://doi.org/10.1038/s41598-025-87993-7 SCI
8	R. Manivannan, S. Senthilkumar	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: https://doi.org/10.1007/s44196-025-00767-x . (Springer - Q2) SCI

SCOPUS JOURNAL PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	S. Senthilkumar, V, Mohan, Mangaiyarkarasi, S.P. Mangaiyarkarasi, R. Gandhi Raj, K. Kalaivani, N. Kopperundevi, M. Chinnadurai, M. Nuthal Srinivasan, L. Ramachandran	Discovered Applied Sciences	“Nature-inspired MPPT algorithms for solar PV and fault classification using deep learning techniques	vol. 7, no. 31, 2025.	https://doi.org/10.1007/s42452-024-06446-4 .SCOPUS

IEEE CONFERENCE THROUGH SCOPUS PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	A. Vasantharaj, M. IrshadAhamed ,K. 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. SCOPUS
2	A. Mohamedyaseen; R. Ayyappa ; MuntatherAlmusawi; KanchanYadav; Al laevaGulchekhraJalgasov	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	M. Kavitha , C. H. Basha, V. Prashanth, S. Senthilkumar , V. Mohan and P. Arunkumar	2 nd IEEE International conference on Networks, Multimedia and Information Technology (NMITCON-	An Advanced Rice Plant disease classification through a modified efficient Net – Deep learning Model.	5 October 2024, pp:1-7	DOI: 10.1109/NMITCON62075.2024.10699161

4	L. Anbazhagan, C. H. Basha, V. Prashanth, S. Senthilkumar, M. Kavitha and T. Senthil Kumar,	2024)	Data Security in cloud computing using Maritime search and rescue algorithm	4 October 2024, pp:1-6.	DOI: 10.1109/NMITCON6207 5.2024.10699273.
5	V.Lakshmi Praba, C. H. Basha, V. Prashanth, S. Senthilkumar, M. Kavitha and L.Anbazhagan		A hybrid Optimization based secured Communicatio n in wireless sensor networks through blockchain technology	October 2024	DOI: 10.1109/NMITCON 62075.2024.10699203
6	S. Sri Abirami, M. Kavitha, S. Senthilkumar, Sundaravadivel, 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”		10.1109/DELCON64804 .2024.10866350.
7	S. Senthilkumar, C. H. Hussaian Basha, Saraswathy Bose, G. Sundaravadivel, M. Malathi, M. Kavitha	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”,		10.1109/ICSCNA63714. 2024.10863904.

8	<p>M. Malathi, S. Senthilkumar, C. H. Hussaian Basha, G. Sundaravadivel, M. Kavitha, P. Arunkumar</p>	<p>2024 Conference on Renewable Energy Technologies and Modern Communications Systems: Future and Challenges conference (RETMCS 2024). 11-12, December 2024, Shaqra University, Saudi Arabiya</p>	<p>Multi-Dialect Speech Recognition Using Transfer Learning and Transformer-Based Architectures: A Comprehensive Approach to Accurate and Efficient Dialect Identification</p>		<p>10.1109/IEEECONF63577.2024.10880973</p>
9	<p>S. Senthilkumar, Gopika B S, S.P. Mangaiyarkarasi, R. Gandhi Raj, M. Nuthal Srinivasan, P.J. Suresh Babu,</p>	<p>2024 Conference on Renewable Energy Technologies and Modern Communications Systems: Future and Challenges conference (RETMCS 2024). 11-12, December 2024, Shaqra University, Saudi Arabiya.</p>	<p>Nature-Inspired Dragonfly MPPT Algorithm for Solar PV System</p>		<p>10.1109/IEEECONF63577.2024.10881507</p>
10	<p>P. Janani Durga, C. H. Hussaian Basha, Nelson Kennedy Babu Christopher, S. Senthilkumar, N. Rathina Kumar, M. Kavitha,</p>	<p>International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI — 2025), January 20-22, 2025, Surya</p>	<p>Real-Time Speech Emotion Recognition Using Hybrid Transformer Networks for Mental Health Monitoring</p>	<p>ISBN: 979-8-3315-0981-1.</p>	<p>10.1109/ICMSCI62561.2025.10894225</p>

		Engineering College, Erode, Tamil Nadu, India.			
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UGC JOURNAL PUBLICATIONS:

S.No	Name of the authors	Journal Name	Paper Title	Publication details	If SCOPUS / SCI Indexed
1	R.Nirmala, L.Megala, M.Malathi	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.2024.0318 UGC

TNSCST MAJOR PROPOSAL SUBMISSION:

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: Dr.M.Malathi, Professor/ECE,	Empowering Maternal Healthcare in Rural India: Bridging Information Gaps through Enhanced Electronic Health Records for safer Childbirth	Rs.30,00,000	ICSSR
2.	PI: Dr.S.Senthilkumar, Assistant Professor/ECE CO-PI: Mrs.M.Kavitha, Assistant	Identification and rectification of faults in solar photovoltaic systems using IoT	2years Rs.10,00,000	Nil

	Professor/ECE			
3	PI: Dr.M.Malathi, Professor/ECE CO-PI: Dr.R.Venkatesan, Assistant Professor/BME	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	Nil
4	PI: Dr.C.Mathuvanesan Assistant Professor/ECE CO-PI: Mr.R.Ramanan, Assistant Professor/EEE	IoT in Aquaculture:Enhan cing Prawn farming and Sustainability in Nagapattinam	2years Rs.6,00,000	Nil

IEEE CONFERENCE PARTICIPATION:

S.No	Staff Details	Conference Name	Paper Title	Participation details
1	Dr.S.SENTHILKUMAR Assistant Professor / ECE	2 nd 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 technology Yelahanka, 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	D. Devarajan, R. Rajalakshmi, P. Sivakumar, S. Senthilkumar, M. Malathi, L. Ramachandran,	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	S. Senthilkumar, S. Vetrivelvi, K. Kalaivani, P. Arunkumar, M. Malathi, S. Praveen Kumar		Super-Resolution Image using Enhanced Deep Residual Networks and the DIV2K Dataset	
6	K. Vembarasi, S. Praveen Kumar, T. Senthil Kumar, S. Senthilkumar, M. Rajakumaran, R. Ganeshamoorthy		Adaptive Error Correction and Machine Learning for Robust Optical Fibre Communication	
7	S. Subashree, P. Mahalakshmi, G. Pushpa, S. Senthilkumar, 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, S.Senthilkumar		Detection System of Whaling Attack using Deep Learning Techniques	
9	S. Senthilkumar, R. Rajaganapathy, K.K. Shandhosh Shree, P. Krishnamoorthy, L. Ramachandran, M. Kavitha,	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, M. Kavitha , S. Senthilkumar , 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	BVICAM, New Delhi.
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 th 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.

REVIEWER CERTIFICATE:

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

NPTEL COURSE CERTIFICATION:

S.No	Staff Details	Course Name	Online Platform	Consolidated Score	Course duration
1	Mrs.M.Kavitha, Assistant Professor / ECE	Digital Image Processing	NPTEL Online	Elite certification with 60%	July-Oct 2024 (12 weeks)
2	Mr.L.ANBAZHAGAN Assistant Professor / ECE	Introduction to Internet of Things	NPTEL Online	Elite-Silver certification with 86%	July-Oct 20224 (12 weeks)

NPTEL-FDP:

S.No	Staff Details	Course Name	Online Platform	Course duration
1	Mrs.M.Kavitha, Assistant Professor / ECE	Digital Image Processing	NPTEL Online	July-Oct 2024 (12 weeks)
2	Mr.L.ANBAZHAGAN Assistant Professor / ECE	Introduction to Internet of Things	NPTEL Online	July-Oct 2024 (12 weeks)

FACULTY DEVELOPMENT PROGRAMME:

S.No	Faculty Details	Course Name	Platform	Date	Participation details
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 Engineering 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 Future of Healthcare	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				
	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.KOTEESWAR I 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

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 Assitive Devices and adaptive Technologies & 27.12.24	Department of Biomedical Engineering , EGSPEC.

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

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

SEMINAR ATTENDED:

S.No	Staff Details	Course Name	Platform	Participation details
1	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 th &21 st Feb,2025.

SKILL DEVELOPMENT PROGRAMME:

S.No	Faculty Coordinators	Course Name	Date	Beneficiaries	Handled & Organized By
1	Dr.M.MALATHI, HOD/ECE. Dr.S.SENTHILKUMAR Assistant Professor / ECE	One day Skill Development Hands on Digital, Electronics Instruments	18.07.24	Teaching Staff(ECE), Nonteaching Staffs(ECE,EEE, BME)	Mr.Vijay Azhagan, Technical Manager, Techshine lab, Chennai. Mr.K.Raju, Service Engineer, Department of ECE, EGSPEC

ONLINE COURSE COMPLETION:

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

INDUSTRY INTERACTION PROGRAMME:

S.No	Faculty Coordinators	Programme Title	Resourec Person	Date	Beneficiaries
1	Dr.C.MATHUVANESAN Assistant Professor / ECE & Mr.L.ANBAZHAGAN Assistant Professor / ECE	Drone and Sensor Technologies	Mr . Nixon , R & D EV Engineer, Luxxa Motors Coimbatore.	26.07.24	II Year ECE Students
2.	Dr.R.S.KOTEESHWARI Assistant Professor / ECE & Mrs.M. KAVITHA Assistant Professor / ECE	5G Technology with Industry 4.0	Dr. Prabhu, Chandar labs , Chennai.	27.07.24	III Year ECE Students

SEMIINAR:

S.No	Staff Details	Course Name	Platform	Participation details
1	Mrs.M. KAVITHA Assistant Professor / ECE	OBE Implementation in Higher Education Institutions	Seminar	E.G.S.Pilay Engineering College,On 14.08.24
2	Mrs.P.JANANI DURGA Assistant Professor / ECE	OBE Implementation in Higher Education Institutions	Seminar	E.G.S.Pilay Engineering College,On 14.08.24

TNSCST STUDENT PROPOSAL SUBMISSION DETAILS:

S.No	Guide Name	Students Name	Title	Date of apply
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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

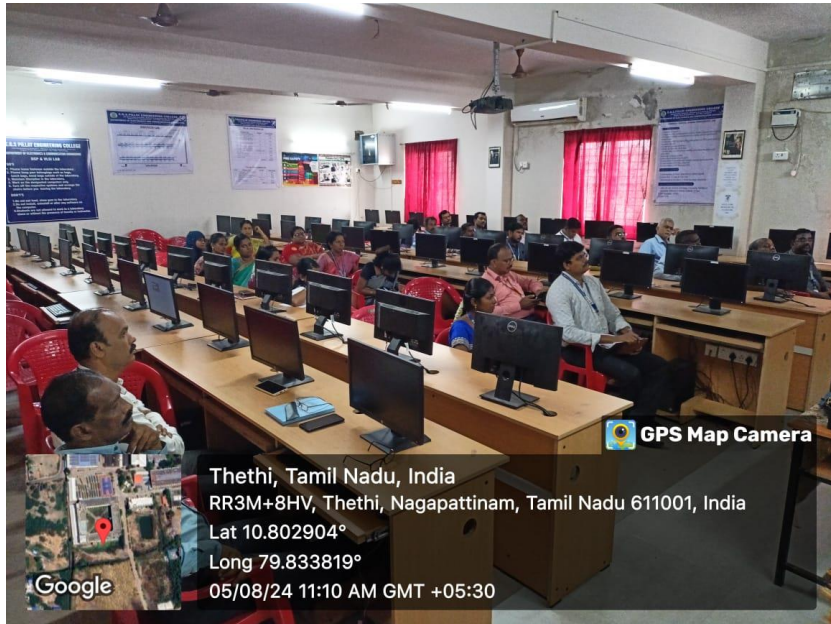
International Seminar:

S.No.	Organizing details	Resource Person	Title &Organized by	Venue &Date
1.	Program Conveners: 1.Dr.M.MALATHI, Professor & HOD/ECE	Dr.Saahira Banu Ahamed, Research &Project coordinator,	Expanding Educational Frontiers: Benefits and outcomes of Overseas	DSP lab & 05.08.24

	<p>2.Dr.M.Irshad Ahamed, R&D Convenor</p> <p>Program Coordinators:</p> <p>1.Dr.R.S Koteeshwari, Assistant Professor/ECE</p> <p>2.Dr.Ms.B.Prabhavathy, Assistant Professor/ECE</p>	<p>Department of Computer Science,College of Engineering and comuter Science, Jazan University, Jazan Kingdom of SaudiArabia,</p>	<p>Research Opportunities</p> <p>Research and Development Cell joined with Department of ECE, EGSPEC.</p>	
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Sample Photos





IETE SPONSORED WEBINAR:

S.No.	Organizing details	Resource Person	Title &Organized by	Venue &Date
1.	Program Conveners: 1.Dr.M.MALATHI, Professor & HOD/ECE Program Coordinators: 1.Dr.D.Devarajan, Associate Professor/ECE 2.Ms.V.Lakshmi Praba, Assistant Professor/ECE	Dr.K.Prabu, Associate Professor, Department of ECE, National Institute of Technology, Karnataka(NITK), Surathkal, Karnataka.	Exploring 6G and IOT:A visionary journey into the future of connectivity	01.09.24
Sample Photos				



E.G.S. PILLAY ENGINEERING COLLEGE(Autonomous)
 Nagapattinam - 611 002
 (Affiliated to Anna University - Chennai,
 Approved by AICTE-New Delhi,
 NAAC 'A+' Grade)
 Department Of Electronics and Communication
 Engineering

**IETE SPONSORED WEBINAR ON
 EXPLORING 6G AND IOT: A VISIONARY
 JOURNEY INTO THE FUTURE OF
 CONNECTIVITY**

Date : 01.09.2024 @ 11.00 am (Online)

Convener:
 Dr.M.Malathi, Prof & HoD/ECE

Coordinators:
 Dr.D.Devarajan ,IETE Convener &
 Associate Professor/Department of ECE
 Ms.V.Lakshmi Praba ,
 Assistant Professor/Department of ECE



- E.G.S. Pillay Engineering College is a self-financing educational institute in Nagapattinam, Nagapattinam District, EGSPEC is the vision of Dr.G.S.Pillay, whose determination and dynamism made possible the 1st the institution of academics.
- Established in 1995 with 3 courses affiliated to Bharathidasan Un
 - Established by G.S. Pillay & Sons Charitable and Educat
 - Affiliated to Anna University, Chennai in 2002.
 - UGC Recognized Institution under 2(F) and 2(B)
 - Recognized Research Centre for Mechanical Engineering, EEE, ECE, Civil Departments by Anna University, Chennai.
 - Accredited by NAAC with A+ Grade.
 - NBA Accredited (The-33 Programmes) - B.Tech - IT, B.E - CSE and EC
 - Autonomous status from 2017 onwards approved by UGC and Ann
 - NIRF Ranking top 300 in India in 20-23
 - Industry interaction and Signed MoU with learning Industries for in training and placements.
 - Currently, offers 9 UG, 7 PG Programmes and houses 6 Research Ce
 - EDSP Community Radio.

RESOURCE PERSON



Dr. K. Prabu, Associate Professor, Department of ECE, National Institute of Technology Karnataka (NITK), Surathkal, Karnataka.

Educational Background:
 I. B.E.-ECE in Anna University
 II. M.E.-Communication and Networking in Madras Institute of Technology
 III. Ph.D in National Institute of Technology (NIT), Tiruchirappalli

Work Experience:
 I. Technical Assistant at National Informatics Centre (NIC), Pondicherry, SGC services Pvt. Ltd from 2007 to 2008
 II. Associate Professor in VIT University, Vellore during January 2015 to May 2018

Awards:
 I. Government of India's University Grant Commission (UGC) fellowship during his Master of Engineering and Technical Education Quality Improvement Programme (TEQIP) Scholarship for his Ph.D during 2012-2014.
 II. TEQIP International Foreign Travel Grant for his laboratory visits and a research paper presentation in an International Conference on Wireless and Optical Communications (ICWOC-2018) held at Nanyang Technological University (NTU), Singapore during May, 2018.
 III Top 2% of the scientist's world wide list prepared by Elsevier and Stanford University US for the consecutive years 2019, 2020, 2021 and 2022.
 In his world rank is 388 in the field of optoelectronics and telecommunication in 2020.

Research Areas:

- Wireless Optical Communication (FSO, VLC, and
- Optical Sensors, Nano-Photonics, 5G, Antennas
- Funded Projects done including DST-SERB etc.
- Technical reviewer for various international jo
- like IEEE, IET, Elsevier, SPIE and Springer publi
- Invited speaker for many international confere
- and faculty development programs in India.
- Senior IEEE member.

Publications:
 I. 85+ publications including 66+ international jour
 II. 15 International conferences
 III. 2 Book chapters and one book in reputed publ
 SPIE, Elsevier, Wiley and Springer etc.

About Program:

Program aims to explore about '6G Commu
 next Generation wireless communication c
 implementation and research process at N

- Topics:**
- Wireless Communication - Introduction
 - Next Generation Wireless Communication
 - IoT - Introduction
 - Hybrid / Convergent systems
 - 5G/6G System
 - Architectures, Research at NITK
- ENTITLED TO:**
 Faculty members, UG & PG Students and I
 Persons who is interesting and passionate i
 Mobile communications
 Webinar Link:
<https://meet.google.com/ugy-sutb-kxx>


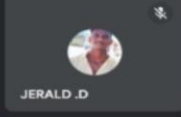
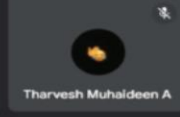


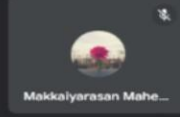
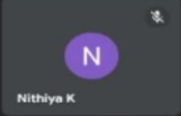
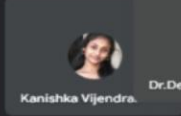
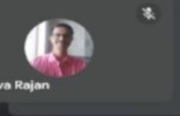
Prabu Krishnan (Presenting)

OUTCOME

- o Education - **Discipline, Thinking - Questioning, Imagination**
- o Why this Topic? Future without air, water; Food, we can Survive.
- o What will be the outcome of this session? Interest
- o What is the importance? World moving towards this area.

- o This session is just a **Tour - 2 hours Journey - R U Ready**
- o Flight 4G to 6G - Application Perspective - **Real to Virtual**
- o **Nature - Basics - Recent developments - Virtual**

Kayalvizhi S can now join this meeting

 Prabu Krishnan	 JERALD .D	 Tharvesh Muhaldeen A
 HOD ECE	 Lakshmi praba Venkat...	 Makkalyarasan Mahe...
 Nithiya K	 Kanishka Vijendra	 Dr. Deva Rajan

S.No.	Organizing details	Resource Person	Title & Organized by	Venue & Date
1.	<p>Program Conveners:</p> <p>1. Dr. M. MALATHI, Professor & HOD/ECE</p> <p>2. Dr. D. Devarajan, Associate Professor/ECE</p> <p>Program Coordinators:</p> <p>1. Mrs. S. Vetriselvi, Assistant Professor/ECE</p> <p>2. Mrs. K. Vembarasi, Assistant Professor/ECE</p>	Dr. Suresh Balanethiram, Assistant Professor, Department of ECE, National Institute of Technology, Pudhuchery, Karaikal.	Webinar on Modelling Electrothermal Effects in semiconductor Devices	29.09.24

Sample Photo

EGSPEC IQAC

E.G.S. PILLAY ENGINEERING COLLEGE (Autonomous)
Nagapattinam - 611 002
(Affiliated to Anna University-Chennai,
Approved by AICTE-New Delhi,
NAAC 'A++' Grade)
Department Of Electronics and Communication
Engineering

**WEBINAR ON
MODELING ELECTROTHERMAL EFFECTS
IN SEMICONDUCTOR DEVICES**

Date : 29.09.2024 @ 10.00 am (Online)

Conveners:
Dr. M. Malathi, Professor & HoD/ECE
Dr. D. Devarajan, Associate Professor/ECE
& IQAC Convener

Coordinators:
Mrs. S. Vetriselvi, Assistant Professor/ECE
Mrs. K. Vembarasi, Assistant Professor/ECE

RESOURCE PERSON

Dr. Suresh Balanethiram,
Assistant Professor/ECE,
National Institute Of Technology,
Puduchery, Karaikal

About Program.

Program aims to explore about recent operations in
electrothermal effects in semiconductors by various
modelling methods

Topics

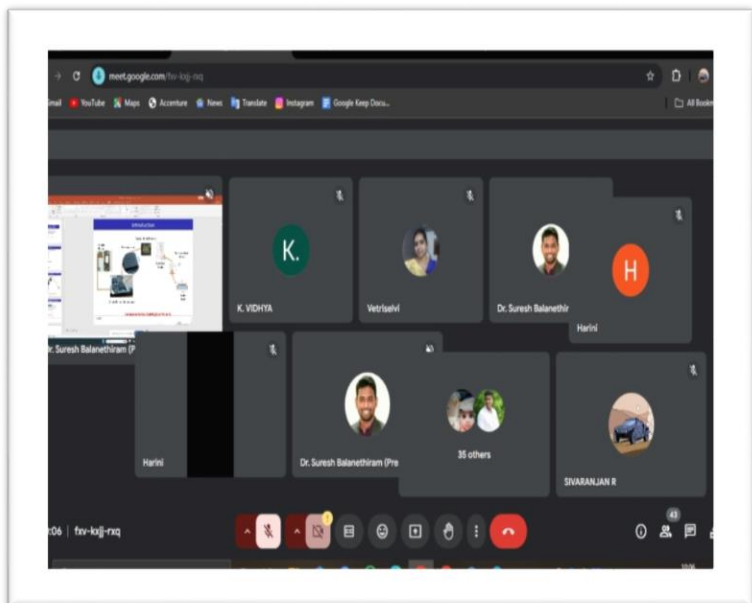
- Electrothermal modeling
- Electrothermal simulation
- Heat propagation
- Thermal coupling
- Electrothermal Effects

Participants

Faculty members, UG & PG Students who are interesting
in semiconductor modelling and Electro thermal effects

Webinar Link
<https://meet.google.com/fsv-kvj-rxq>

* Postdoctoral Fellow at IMS Laboratory, University of Bordeaux, France.
* Ph.D. in the area of Microelectronics from IIT Madras.
* Worked as a Senior Project Officer at IIT Madras to develop BICMOS technology in India.
* Worked on on-wafer characterization and compact modeling of high-speed semiconductor devices with emphasis on electrothermal heating.
* Research interests include compact modeling of semiconductor devices, thermally aware semiconductor device design, and neuromorphic computing.
* Authorship in 30 research articles in IEEE journals and conferences related to electron devices and circuits.
* Reviewer of the IEEE Transactions on Electron Devices.



8 days online FDP organized:

S.No.	Organizing details	Title &Organized by	Beneficiaries	Mode&Date
1.	Program Conveners: 1.Dr.M.MALATHI, Professor & HOD/ECE Program Coordinators: 1.Dr.S.SENTHILKUMAR, Assistant Professor / ECE	8 days Online FDP on Wearable Devices: Challenges and Innovations, Department of ECE, EGSPEC.	Internal faculty Members and Other College Participants	Online& 16.12.24 to 24.12.24

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		

STAFF INCHARGE

HOD