Propagations '23

Jan 2023 – Jun 2023

Department of Electronics and Communication Engineering
Velammal Institute of Technology, Ponneri

Vision of the Institute

To be a leader in imparting quality technical education, research and enterprising skills in pursuit of professional excellence

Mission of the Institute

- To promote quality education & technical skills to meet the industry requirements
- To incorporate team work, leadership skills & lifelong learning
- To facilitate career development & higher education assistance
- To encourage innovative ideas for research & development and entrepreneurship for societal needs
- To inculcate ethical responsibility & human values

Vision of the Department

To achieve academic excellence in the field of Electronics and Communication Engineering and to produce meritorious engineers with human values by imparting high quality technical education

Mission of the Department

- To create efficient Electronics and Communication Engineers to meet the current and future demands of industry and society with ethical values
- To instill the quality of leadership and entrepreneurship in students
- To elevate the spirit of innovation and creativity among students towards research and development

Program Educational Objectives (PEOs)

PEO-I: Futuristic Learning:
Graduates will attain excellence in the field of Electronics and Communication Engineering through lifelong learning process by imbibing the new technologies.

PEO-II: Career Development:
Graduates will become successful engineers or researchers or entrepreneurs with social responsibilities.

PEO-III: Professionalism:
Graduates will excel as estimable engineers with ethics, effective communication and leadership skills.

What's Inside...

Message from HoD

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Student Achievements

Welcome to the Department of Electronics and Communication Engineering, Velammal Institute of Technology! We, the Department of Electronics and Communication Engineering, feel our enthusiasm to publish the January 2023 - July 2023 issue of our departmental newsletter, "Propagations". I, as a head of the department would like to thank all the faculty members, non-teaching staffs and students for their limitless support and sincere efforts for the betterment and development of department. On this occasion, I congratulate all the team members of the editorial board for bringing up this issue in a better shape.

- Dr. B. SRIDEVI
HOD – ECE

Around the Department

Sl.No	Conference/ Symposium/ Seminar/Guest Lecture/FDP/Workshop/ Training Program/ Industrial Visit	Resource Persons (s)/ Chief Guest	Date
1.	Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023)	Dr. V. Rama Krishnan, Deputy Director, MSME DI, Govt of India, New Delhi, India	23.03.2023 & 24.03.2023
2.	Technical symposium-AGNIESKA-2k3	Mr.N. Dhanasekar Senior executive engineer electrical & machine automation, MRF limited, Chennai. Dr.D.Rajasekar Scientist-G, Group Director, Ship Management Group, National institute of Ocean Technology, Chennai.	04.03.2023
3.	Industrial visit -Indian Space Research Organization (ISRO)	Not Applicable	13.09. 2022
4.	Industrial visit -South-Indian automation Expo	Not Applicable	28.04.2023
5.	Hands-on Workshop in Labview	Ms. T. Kamalam AP/ECE And Mr. Sethuram Rao AP/ECE	Batch 1: 08.02.2023 to 10.02.2023 Batch 2: 13.02.2023 to 15.02.2023
6.	Webinar on VLSI design	Experts from -Maven Silicon Semiconductors Bengaluru	10.02.2023

7.	Two day Hands on Training on Advanced Technologies for Smart Phone Service & Troubleshooting	Mr.B.Krishnakumar, Managing Director, New Technology Mobile Service centre and Training ,Coimbatore	20.01.2023 & 21.01.2023
8.	New Challenges for Higher Studies & Work Opportunities in U.K	Mr. Mohammed Hashique Marketing Manager South-India Division SI-UK	08.02.2023

Third International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023)

23ʰ& 24ᵗʰ March 2023

 ICA5NT 2023: International Conference on Artificial Intelligence, 5G Communications, and Network Technologies on March 23 and 24, 2023, conducted in hybrid mode by the Department of ECE, Velammal Institute of Technology, Chennai This conference focuses on Artificial Intelligence, 5G communication, and network technologies, which are the three major research areas and emerging areas in the current scenario. This conference provides a conclave for experts to gain knowledge in three research fields to meet potential challenges and opportunities for future advancement. This international conference collected research papers from various reputed institutions and universities. It consists of three streams, in which stream 1 has papers on artificial intelligence, stream 2 has papers on integrated 5G Terrestrial and Satellite Network communication, and stream 3 has papers on network technologies. In stream 1, we received 160 papers from various domains like Modern Artificial Intelligence, machine learning and computing, deep learning, natural language processing, etc. In stream 2, we received 50 papers in research areas like 5G wireless Technologies, MIMO Communications, Emerging IoT applications in 5G networks, Antennas, RF and Microwave communications, etc. In stream 3, we received 46 papers from various domains like Network Security, high-speed Networks, Advanced Routing algorithms, Cognitive Radio Networking, ad hoc and Sensor networks, network-based applications, etc. So total, we received 256 papers from all three streams. The papers collected in this international conference were rigorously reviewed by the technical committee members, who provided useful comments to the authors. Out of the more than 256 research papers received, the Conference Technical Review Committee could only accept 157. All the resource persons conducted very engaging and fruitful sessions.

Dr. N. Balaji, the principal, in his Presidential address, highlighted the importance of learning new technology and developing knowledge in various domains. Dr. B. Sridevi, Professor and Head, Department of ECE, extended a warm welcome to all the participants and insisted on the importance of research in all the fields. Dr. R. Jothi Chitra, Professor, Department of Electronics and Communication Engineering, presented the conference in a brief manner. Dr. G. Shanmugaraj and Mr.G.Sethuram Rao gave a brief introduction about the chief guest, Dr.V. Rama **Krishnan,** and the guest of honour, **Mr.Sheikji Nazirudeen**.

Inaugural Session:

The honorable chief Guest **Dr.V.Rama Krishnan,** Deputy Director, MSME DI, Govt of India, New Delhi, India, inaugurated the conference. He discussed about the Funding opportunities in MSME, how to become an entrepreneur and advanced technologies.

Release of Conference Proceedings

FELICITATION TO CHIEF GUEST

Inaugural Address by Chief Guest Dr.V.Rama Krishnan

Special Address by Guest of Honour Mr.Sheikji Nazirudeen

Dr. M. Sivarathinabala, Associate Professor, Department of Electronics and Communication Engineering, proposed a vote of Thanks. Papers from all over Tamil Nadu, Andhra Pradesh, Madhya Pradesh, and Kerala. Uttarakhand, Rajasthan, etc. were presented at the conference. Shri. M.V. Muthuramalingam, Founder and Chairman, Velammal Educational Trust; Shri. M.V.M. Sasikumar, Director; Prof. K. Razak; and Shri. M. Vasu, Advisors of the College, graced the occasion. All faculty members have arranged the conference in a grand and successful manner.

Technical symposium-AGNIESKA-2k3

04-03-2023

The Agnieska Inauguration Ceremony was held in the third-floor seminar hall of Velammal Institute of Technology. Chief Guest and Alumini are invited to this function. They were honoured by Principal Dr. N. Balaji and Dr. B. Sridevi, HoD/ECE. A welcome address was given by Dr. B. Sridevi, HoD/ECE, in the gathering. The principal gave a presidential address and insisted on the importance of the symposium event. The Chief Guest was introduced by Symposium Coordinator Mrs. T. Kamalam, AP/ECE. The Guest of Honour (Alumini) was introduced by Symposium Coordinator Mr. G. Sethuram, AP/ECE. The Chief Guest and Guest of Honour shared their ideas about current trends in the electronics field and demonstrated the projects at DRDO and ISRO.

Chief Guest(s):

Mr.N. Dhanasekar
Senior executive engineer electrical & machine automation, MRF limited, Chennai.

Dr.D.Rajasekar
Scientist-G, Group Director,
Ship Management Group,National institute of Ocean Technology, Chennai.

Industrial visits

Indian Space Research Organization (ISRO)

The industrial visit to SHAR (Satish Dhawan Space Centre), Srihari Kota, was conducted on September 13, 2022, for 48 students. The visit was organised to give the students an insight into the workings and functioning of the centre. The students were taken to various places in the centre that included the rocket launch pad, the engine test facilities, the control rooms, and the satellite integration facility The students were given a tour of the centre, and they were also made aware of the various safety measures that were taken to ensure the safety of the staff and the rockets. The students were also briefed on the various stages of rocket launches and the various challenges that are faced by the staff in the process. They were also given a brief overview of the history of the centre and its contributions to the Indian space programme. The students were also taken to the launch viewing gallery, where they got to witness the launch of a satellite. Overall, the industrial visit was a great learning experience for the students.

South-Indian automation Expo

An automation expo is visited by the Electronics and Communication Engineering Department on April 28-04-2023.One hundred and twenty-two students and two faculties visited the Chennai Trade Centre. To interact with the projects, startups, etc. During this visit, students were very eagerly waiting to listen to projects over there. In the forenoon, at 11:00 a.m., we visited the Chennai Trade Centre. We divided our students into batches of eight students per batch for the visit and the interaction with the innovators. The Head of the team conducted a very informative session for the students. Also, she motivated the students to select their domain and area of interest. She also guided the students to select areas like web development, mobile application development, the Internet of Things, etc., and their importance. Finally, she gave a brief introduction to the automation expo. The session was concluded with a question-and-answer session. Many of the students asked different questions, and they cleared up all the doubts and myths that were in their minds about the technologies. All students were satisfied after the session. This expo motivated the students by giving them tokens of affection in the form of booklets. The visit came to an end at 1.30 p.m. Finally, we left the premises at 2.30 p.m. It was an informative, interesting, and successful visit. As students of electronics and communication engineering. We express our thanks to the Technical Head. Who spent their valuable time for us. We also thank our respected director, principal, and HOD whootivated us to arrange such an informative programme. Lately, we have requested that you arrange more industrial visits in the future for the students, which will be helpful for them and help train them.

Workshops

Hands-on Workshop in Labview

On behalf of the ECE Department, Mrs. T. Kamalam and Mr. Sethuram Rao conducted a three-day workshop and hands-on training in Labview software for second-year students of ECE from 08.02.2023 to 10.02.2023, for a batch of 61 students, and from 13.02.2023 to 15.02.2023) for a batch of 61 students. Dr. B. Sridevi, head of the department of ECE and head of R&D, gave the inaugural address to the participants. The special session is handled by Dr. J. Nandagopal, Associate Professor R&D.

Webinar on VLSI design

Students in the second year of ECE received an introduction to VLSI design as well as a required skill set for positions in VLSI companies at Maven Silicon Semiconductors Bengaluru on February 10, 2023. In this interactive session, students clarified their doubts related to the front end and back end of VLSI design. The session was organized by Prof. Sethuram Rao of the ECE department.

Advanced Technologies for Smart Phone Service & Troubleshooting

Department of ECE is organising a Hands on Training in Smart phone service and Troubleshooting for the second year students on 20th and 21st January 2023.

Resource Person: Mr.B.Krishnakumar, Managing Director, New Technology Mobile Service centre and Training, Coimbatore

Recognized Anna University Research Centre

Research Domains:

1. Wireless Networks,
2. Image Processing,
3. Artificial Intelligence,
4. Deep Learning,
5. Machine Learning,
6. Antenna Design,
7. RF and Microwave,
8. Wireless Communication,
9. MIMO,
10. Biomedical.

Research Facilities:

Hardware's:

1. CMOS Camera Module Interface with ARDUINO board for Robotics vision, CMOS Camera for Raspberry Pi, CMOS camera for Arduino Camera Module, Adjustable-focus, IR Thermal Camera, AMG8833(Raspberry pi)

2. NI my RIO Starter kit, NI my RIO with required Accessories, NI my RIO Embedded Kit, NI my RIO mechatronics Accessories Kit, NI my DAQ with required Accessories and cables.

3. Portable vector network analyzer- 2port 4GHz, Analog discovery kit with probe set, SDR, SDR for link Simulation, Scalar network analyzer, microstrip trainee system, microwave power meter.

4. RM7 Development board RTOS, Spartan6 kit, INTEL/ATMEL/PHILIPS microcontroller board, ALTERA DE0 Cyclone III, CYPRESS, ATMEL, Universal Programmer VLSI Kit, Xilinx FPGA interface module with USB Downloader

Software:

ANSYS HFSS, KEIL IDE version2 Software, Matlab (10 user), Edwin XP, NI lab VIEW Academy software bundle
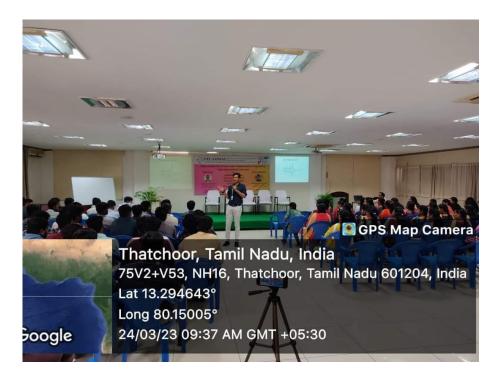
Anna university Recognized Research Supervisors

The Department of Electronics and Communication Engineering has been recognized as a research Centre by Anna University, Chennai, for conducting Ph.D. programmes. The Department of ECE is recognized as a research Centre by Anna University, Chennai, for carrying out research work. Many scholars from other colleges can carry out their doctoral research work at the research Centre as part-time or full-time programmes. The following faculty members of the department are recognized to supervise research work at ANNA University, Chennai:

SL.no	Name of the Supervisor	Supervisor ID	Research Area
1	Dr. Balaji	2940110	Cloud Computing, Software Engineering, Information Storage and management, networks security
2	Dr.B.Sridevi	2440356	Wireless Communication, Wireless Networks, Network Security
3	Dr.R.Jothichithra	2840053	Antenna and Microwave Engineering
4	Dr.M.Sivarathinabala	4140034	Artificial Intelligence, Image &Video Processing, Healthcare analytics

GUEST LECTURE

Department of ECE organized Guest Lecture on 24-03-23 for the II ECE students on RECENT DEVELOPMENTS IN ANALOG IC & PLL.Dr.Mahaboob Basha, Professor & Head of Machine Learning ,Saveetha School of Engineering presided over the lecture.

Dr.Mahaboob Basha addressing the students during the programme

MOU

Funded projects

Sl.no	Title of Project	Staff	Funding agency	Amount sanctioned
1.	A LASER stimulated touch responsive frame for Non-Touchscreen Laptops.	Dr.Shanmugaraj	**MSME**	**Rs. 5.50 Lakhs**
2.	Design of smart waterless solar panel cleaning system	Dr.Shanmugaraj	**MSME**	**Rs.9.962 Lakhs**

Patents Published

Sl.No	Patent Title	IPR Application Number	Applicant Name	Patent Published
1.	Sensor simulated touch responsive frame for non-touch screen laptops	202341011612 A	Dr.G.Shanmugaraj Dr.M.Vijay Dr.B.Sridevi M.Jatin kishore	17/03/2023
2.	Computing the Generalized Anxiety Disorder of Covid-19 Pandemic among College Students by Using AI (Artificial Intelligence) Approach	202341004193 A	Kamesh M	17/02/2023

Faculty Publications

Sl.No	Author	Title	Publisher Details
1.	Dr.B. Sridevi	Biosynthesised silver nanoparticles loading onto Biphasic calciumphosphate for antibacterial and bonetissue engineering applications	Antibiotics MDPI, 022 Dec 8;11(12):1780 , DOI: 10.3390/antibiotics11121780
2`.	Dr.R. Jothichithra	Faster R-CNN Algorithmfor detection of plastic garbage in the ocean: A case for Turtle preservation	Soft Computing Techniques for Sustainable Natural Resources and Environmental Modelling, Hindawi, ,Volume 2022 , Article ID 3639222 , https://doi.org/10.1155/2022/3639222.
3.	Dr.R.Jothichithra	QoS analysis for Cloud based IoT data using Multicriteria based optimization approach	Lightweight Deep Learning Models for Resource Constrained Devices, computational intelligence and neuroscience, Hindawi, Volume 2022 , Article ID 7255913 , https://doi.org/10.1155/2022/7255913
4.	Dr.R.Jothichithra	HGKM: An Efficient Hybrid Group Key Management for Unmanned AutonomousVehicles MBN in Wireless Network Environment	Security and Communication Networks, Hindawi ,Volume 2022 , Article ID 6000375 , https://doi.org/10.1155/2022/6000375
5.	Dr. M. Sivarathinabala	Music Genre Classification UsingAfrican Buffalo Optimization	Computer systems Science and Engineering, Tech science press Vol.44, No.2, 2023, 10.32604/csse.2023.022938

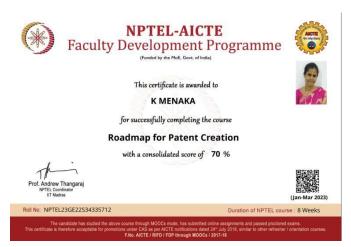| 6.	Mr.S.Karthikeyan	Adaptive fuzzy logic despeckling in non-subsampled contourlet transformed ultrasound pictures	Intelligent Automation & Soft Computing tech science press2023, 35(3), 2755-2771. https://doi.org/10.32604/iasc.2023.030497
7.	Mr. R Vinoth Raj	Reconfigurable color medical image encryptorusing hardware accelerated Chao(S)-box triplets	Journal of Real-Time Image Processing, Springer volume 20, Article number: 27 (2023) htt ps://doi.org/10.1007/s11554-023-01278-8.
8.	Mr. R Vinoth Raj	Pullikolam assisted medical image watermarking on reconfigurable hardware	Multimedia Tools and Applications, 82, pages21193–21203 (2023) Springer , https://doi.org/10.1007/s11042-023-14725-2
9.	Dr.G.Shanmugaraj	Enhancing Paralysis Patient Care through anIoT-Enabled HealthcareEcosystem	Journal of Population Therapeutics and Clinical, Researchtrentz Acad Publ. Pharmacology, ISSN: 1710-6222
10.	Dr.G.Shanmugaraj	Web-Based Machine Learning Algorithms forPersonalized Cardiovascular DiseaseRisk Assessment	Journal of Population Therapeutics and Clinical Pharmacology ISSN: 1710-6222, Research trentz Acad Publ
11.	Mr.G.Sethuram rao	Premature-Multiple Stage Brain Tumour Detection and Localization using a Fusion of K-Means Clustering and Patch-based Processing	Journal of Population Therapeutics and Clinical Pharmacology ISSN 1710-6222, Vol. 30 No. 12 (2023)

DETAILS OF WORKSHOPS, SEMINARS, CONFERENCES, CEP, FDP AND QIP PROGRAMMES ATTENDED BY FACULTY

Sl.no	Name of the Faculty	Name of the Programme	Organizer/Sponsor	DATE / Duration
1.	Dr.Jothi Chitra	Foundation Level	Online/ MoE innovation cell & AICTE	15 Sessions
2.	Dr.Jothi Chitra	Data Science	PDPM Indian Institute of Technology,Jabalpur/ Asi@Connect	19.05.2023-01.06.2023
3.	Dr.Sivarathinabala	Data Science	PDPM Indian Institute of Technology,Jabalpur/ Asi@Connect	19.05.2023-01.06.2023
4.	Mrs.JeyamaniLatha	Cognitive Computing	VISTAS/ IETE	20.03.2023-24.03.2023
5.	Mr.Sethuram Rao	Data Science	PDPM Indian Institute of Technology,Jabalpur/ Asi@Connect	19.05.2023-01.06.2023
6.	Mr.Karthikeyan	Cognitive Computing	VISTAS/IETE	20.03.2023-24.03.2023
7.	Mr.Karthikeyan	Mobile App Development	Velammal Institute of Technology/ ICT Academy	19.05.2023
8.	Mrs.Devika	Mobile App Development	Velammal Institute of Technology/ ICT Academy	19.05.2023
9.	Mrs.K.Kalarani	Mobile App Development	Velammal Institute of Technology/ ICT Academy	19.05.2023
10.	Mrs.Murugeshwari	Mobile App Development	Velammal Institute of Technology/ ICT Academy	19.05.2023
11.	Mr.Kamesh	Cognitive Computing	VISTAS/IETE	20.03.2023-24.03.2023
12.	Mrs.Hemalatha	Artificial Intelligence for Edge Computing	Thigarajar college of engineering	08.05.2023-12.05.2023
13.	Mr.G.V.Chidambarathanu	Artificial Intelligence for Edge Computing	Thigarajar college of engineering	08.05.2023-12.05.2023
14.	Mrs.Janani Priya	Artificial Intelligence for Edge Computing	Thigarajar college of engineering	08.05.2023-12.05.2023

NPTEL Course Certification

Sl.No	Name	Course name	Duration	Marks
1	K Murugeswari	Introduction to Internet of Things	12 weeks	ELITE - 63
2	D.Jeyamani Latha	Introduction to Internet of Things	12 weeks	ELITE - 65
3	R. Devika	Computer Networks and Internet Protocol	12 weeks	54
4	T. Kamalam	Introduction to Internet of Things	12 weeks	58
5	Kalarani K	Discrete Time Signal Processing	8 weeks	57
6	K Menaka	Roadmap For Patent Creation	8 weeks	70-ELITE
7	Mugunthan V	Microprocessors and Microcontrollers	12 weeks	49

FACULTY INTERACTION WITH OUTSIDE WORLD

Dr.B.Sridevi Plenary Speaker - Two Day International Conference on
"Digital Archiving and Presentation on Cultural Heritage of India"

STUDENTS PUBLICATION

Sl.no	Name of the students	Paper Title	Name of the Conference	Date of Conference	Presented/Awarded
1	Rameshwaran N Bharathraj M	Prevention of warmhole attacks using mobile secure neighbour discovery protocol in wireless sensor networks	International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023	22.06.2023	Presented
2	Meharnath Reddy S Kishore H Karthick V	Vedic multiplier based medical image encryption-A VLSI Approach	International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2023	22.06.2023	Presented
3	Appaneni Shyam-Kumar Nallaballi Hemanth-Sai Josh Adithea R S	System for detection and classification of anomalous behaviour and fixing anomaly with firewall configuration	International Conference on Internet of Things (ICIoT 2023) , SRM Institute of Science and Technology, Chennai	April 26-28,2023	Presented
4	Susciil Kumar M S Sivakkumar E Lakshminarayanan S	Design of bio inspired tulip flower shaped 2x2 MIMO Antenna for 5G application	International Conference on Artificial Intelligence, 5G Communications and Network Technologies, Velammal Institute of Technology, Chennai	24.03.2023	Presented

5	Gowtham N Naveen Kumar R K Selva Gandhi P	Design of cherry blossom flower shaped fractal antenna for wearable applications	International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
6	Santhanu K C Dhakshanamoorthi M Balasubramani M	A smart Bus tracking system	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
7	Ashwin M Thaneshwaran R Dineshwar N	Reconfigurable tamper proof speech encryption engine	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
8	Shaik Fardeen Vallepu Vamsi Chirala Venkata Siva- Sai Aravind	Suspicious activity detection in ATM surveillance using YOLO algorithm	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented

9	Mohammad Nuhiya Chundurureddy- Venkata Vyshnavi Dudi Charani Sri	Design of flower shaped frequency Reconfigurable Antenna for Multiband Applications	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
10	Ragul Rathna T Bhuvaneshwaran S Mohan Kumar K	Braille to text conversion using neural network	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
11	Yuvaraj Yugendar G	Students monitoring attendance system in a classroom under surveillance	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
12	Bharath K Harikrishnan S Karthikeyan B	Prevention of replay attack on RF and CANBUS system of car	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented

13	Sivadharshini S Kiruthika S Lavanya P	An automated system for rapid missing person detection in large crowded areas	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
14	Surendar R Vetrivelan B Senthilkumar T	Web-based machine learning algorithms for personalized cardiovascular disease risk assessment	International conference eon contemporary engineering and technology-2023, Prince shri Venkateswara padmavathy engineering college	01.05.2023	Presented
15	Divya B	Image Denoising based on nature inspired optimized deep neural network	Fourth International Conference on Internet of Things (ICIOT 2023), SRM university	26th-28thApril 2023	Presented
16	Mohan Krishna P Sumanth reddy E Chandrasekar p Dhanush P	Virtualization based anomaly detection model for web design	International Conference on Research in Electronics Engineering and Communication Techniques (ICREACT'23)	3.5.2023	Presented
17	Shaik mariam Fathima	Enhancing paralysis patient care through an IOT-enabled healthcare ecosystem	International conference on contemporary engineering and technology-2023, Prince shri Venkateswara padmavathy engineering college	01.05.2023	Presented

18	Boomika E Gnapika A	Air writing recognition using CNN and mediapipe algorithm	International conference eon contemporary engineering and technology-2023, Prince shri Venkateswara padmavathy engineering college	01.05.2023	Presented
19	Premkumar V V J Laeneshvar Hari shakthi S	Design of bio-inspired inga margitana leaf shaped 4*4 MIMO antenna for ultra-wideband apllication	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
20	Dharini M Sriaswini T	Beyond biometrics:A comphrehensive approach to person re-identifictaion in surveillance application	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
21	Kamireedy chathurya reddy Ganapathi chirudivya Gandhavalli harivandhana	Synthesis deep learning supported modulation signal classification model for underwater Communication	First International Interdisciplinary conference on energy,Nanotechnology and Internet of Things	02.02.2023-04.02.2023	Best Paper award
22	Deepika M Polu Tejaswini reddy	An IOT system for continuous monitoring and burst detection in intermittent water distribution networks	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology,	24.03.2023	Presented

			Chennai		
23	Rahul M Dhanush Shobin G Padmanaban V	Multipurpose watermarking technique capable of protecting and authenticating images with reduced complexity	International conference eon contemporary engineering and technology-2023, Prince shri Venkateswara padmavathy engineering college	01.05.2023	Presented
24	Pellur manasa Ambati Geetha sravanthi Chandana RC	Smart monitoring system for medical care using IOT	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
25	Helen joice D Anusheya AA Kavitha S	Nursing Robot with voice control for isolated people	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
26	Velmurugan R Kannan S Cegon Benadict JS	Helmet detection and number plate detection using Python	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented

27	Dinesh shithik varshan A Venkatesh PS Srikanth Y	Skin lesion segmentation detection using U-NET architecture	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
28	Dinesh Kumar MP Praveen P Sanjay Kumar G	Elephant Herding Optimization Ad Hoc On-Demand Multipath Distance Vector Routing Protocol for MANET	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented
29	Harish A Mohideen Ashath MI Riyas Mohideen M	Kidney stone prediction by using supervised machine learning techniques	3rd International Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2023), Velammal Institute of Technology, Chennai	24.03.2023	Presented

STUDENTS PARTICIPATION

Students Participation in Various events(Conference, Symposium, Technical events)

S.no	Student name	Batch	Name of the event	Event type	organization	Date	Prize/Partic ipated
1	Kamireddy Chathurya Ganapathi Chirudivya Gandhavalli Harivandhana	2019-2023	ENT2023	Conference	NIT Puduchery	02.02 .23 To 04.02 .23	Best paper award
2	Dharshan G	2021-2025	VITALIZ Z	Circuit Debugging	RAJALAKS HMI ENGINEERI NG COLLEGE	04.02 .23	1st Prize
3	Trisha N	2021-2025	VITALIZ Z	Circuit Debugging	RAJALAKS HMI ENGINEERI NG COLLEGE	04.02 .23	1st Prize
4	Gunasekar D	2021-2025	VITALIZ Z	Circuit Debugging	RAJALAKS HMI ENGINEERI NG COLLEGE	04.02 .23	1st Prize
5	Shrinithi M	2021-2025	VITALIZ Z	Circuit Debugging	RAJALAKS HMI ENGINEERI NG COLLEGE	04.02 .23	1st Prize
6	Susmitha L	2021-2025	VITALIZ Z	Circuit Debugging	RAJALAKS HMI ENGINEERI NG COLLEGE	04.02 .23	3rd Prize

7	Swetha V	2021-2025	VITALIZZ	Circuit Debugging	RAJALAKSHMI ENGINEERING COLLEGE	04.02.23	3rd Prize
8	Abinaya A	2021-2025	VITALIZZ	Circuit Debugging	RAJALAKSHMI ENGINEERING COLLEGE	04.02.23	3rd Prize
9	Ramprawin U	2021-2025	VITALIZZ	Circuit Debugging	RAJALAKSHMI ENGINEERING COLLEGE	04.02.23	3rd Prize
10	Santhanu K C	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	3rd Prize
11	M.Dhakshana Moorthy	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	3rd Prize
12	Balasubramani M	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	3rd Prize
13	Bharath K	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	2nd Prize
14	Harikrishnan S	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	2nd Prize
15	Karthikeyan B	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	2nd Prize

16	Jasmin Irfana Z	2021-2025	Hockey Association	Hockey	Le Puducherry Hockey Association	06.05.23 To 08.05.23	Selected in National Junior Women Hockey Team
17	Dharshan G	2021-2025	Futsal	Football	Chennai Institute of Technology	23.03.23	1st prize
18	Dharshan G	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	2nd Prize
19	Hridai Jain D	2021-2025	INNOVATE2K23	Project Expo	Velammal Institute of Technology	19.04.23	2nd Prize

STUDENT ACHIEVMENT _NPTEL CERTIFICATIONS

22 Students from the 2021–2025 batch have taken the Swayam NPTEL course. Most of the students completed the introduction to the internet of things course, and the rest took Python for the data science and digital system design course. Out of 22 students, 12 obtained an ELITE grade, and the rest successfully completed the respective course.

Sl.No	Name	Course name	Duration	MARKS
1	Sai Vignesh	Python for Data Science	4 weeks	47
2	Vignesh V	Programming data Structures and Algorithms using Python	8 weeks	64-ELITE
3	J Deepan Sankar	Cloud computing	12 weeks	64-ELITE
4	Devika S	Introduction to internet of things	12 weeks	61-ELITE
5	J Prem Kumar	Introduction to internet of things	12 weeks	64-ELITE
6	M.Keerthika	Introduction to internet of things	12 weeks	54
7	Munagacherla Bhavana	Introduction to internet of things	12 weeks	65-ELITE
8	A Archana	Introduction to internet of things	12 weeks	54
9	Sneha	Introduction to internet of things	12 weeks	56
10	Yeshwantikaa Vm	Introduction to internet of things	12 weeks	54
11	Keerthi B	Introduction to internet of things	12 weeks	47
12	Swedha V	Introduction to internet of things	12 weeks	60-ELITE
13	Akshaya G	Introduction to internet of things	12 weeks	65-ELITE
14	Sumithra Kumanan	Data analytics with python		54
15	Sivasubramani C	Introduction to internet of things	12 weeks	68-ELITE
16	Varshini Sr	Introduction to internet of things	12 weeks	65-ELITE
17	Nafisa Parveen S	Introduction to internet of things	12 weeks	68-ELITE
18	Yekollakesava	Introduction to internet of things	12 weeks	62-ELITE

19	Dommaraju Hanvitha	Introduction to internet of things	12 weeks	68-ELITE
20	Farzana Begum	Introduction to internet of things	12 weeks	56
21	Dharsan	Digital system design	12 weeks	56
22	Sathish	Digital system design	12 weeks	51

11 students from the 2020-2024 batch enrolled in Swayam NPTEL courses like cloud computing, introduction to the internet of things, computer networks and internet protocol, database management systems, and introduction to industry 4.0 and the industrial internet of things. The majority of students took the database management systems course. Five students obtained an elite grade. Jatin Kishore E obtained an elite plus silver medal.

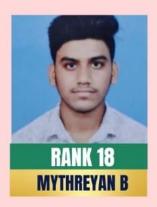| Sl.No	Name	Course name	Duration	Marks
1	R Thillai Krishna	Cloud computing	12 weeks	ELITE-60
2	K Arun Kumar	Introduction to internet of things	12 weeks	ELITE-60
3	Jatin Kishore M	Introduction to internet of things	12 weeks	ELITE-75/Silver medal
4	Jatin Kishore M	Computer networks and internet protocol	12 weeks	ELITE-61
5	Tharani P	Cloud computing	12 weeks	ELITE-65
6	S Vignesh	Data base management system	8 weeks	50
7	Shailesh R	Data base management system	8 weeks	50
8	Augustin Raj	Data base management system	8 weeks	50
9	Sathyanarayanan B	Data base management system	8 weeks	50
10	Abinesh M	Data base management system	8 weeks	50
11	Meera Jasmin	Introduction to industry 4.0 and industrial internet of things	12 weeks	56

STUDENT ACHIEVMENT

S.NO	NAME OF THE STUDENT	AWARDS /INVITATION RECEIVED		
		DATE	NATURE OF AWARD/ INVITATION	GRANTING AUTHORITY /JOURNAL/ CONFERENCE
1	Ferin Kingsley	25.01.23	1st Prize	Singing – Received Award From District Collector (Tiruvallur)
2	Kamireddy Chathurya Reddy, Ganapathi Chirudivya, Gandhavalli Harivandhana	02.02.23 To 04.02.23	Best Paper Award	Scopus Indexed Journal Presentation – Nit Puduchery
3	Dharshan G Trisha N Gunasekar D Shrinithi M	04.02.23	1st Prize	Circuit Debugging- Rajalakshmi Engineering College
4	Susmitha L Swetha V Abinaya A Ramprawin U	04.02.23	3rd Prize	Circuit Debugging- Rajalakshmi Engineering College
5	Santhanu K C M.Dhakshana Moorthy Balasubramani M	19.04.23	3rd Prize	Project Expo Contest – Velammal Institute Of Technology
6	Bharath K Harikrishnan S Karthikeyan B	19.04.23	2nd Prize	Project Expo Contest – Velammal Institute Of Technology
7	Jasmin Irfana Z	06.05.23 To 08.05.23	Selected In National Junior Women Hockey Team	Le Puducherry Hockey Association
8	Dharshan G	23.03.23	1st Prize	Futsal-Football Match At Chennai Institute Of Technology
9	Dharshan G Hridai Jain D	19.04.23	2nd Prize	Innovate 2k23-Velammal Institute Of Technology

NCAT National Level Achievers

GLIMPSE OF STUDENTS ACHIEVEMENTS

FERIN KINGSLY of II ECE A awarded by honourable Tiruvallur District Collector, Mr.Alby John Varghese for winning first prize in singing competition conducted by Election Commission Department of India

G.DHARSHAN, D.GUNASEKAR, M.SRINITHI, N.TRISHA of Second year received first prize in "CIRCUIT DEBUGGING" conducted by Rajalakshmi Engineering College on 4th February 2023

DEPARTMENT OF ECE

PLACEMENT DETAILS 2019 - 2023 BATCH

AMBATI GEETHA SRAVANTHI KAAR TECHNOLOGIES 6.50 LPA	**MOHAMMAD NUHYIA** AVASOFT / CTS GEN C / TCS 5.00 / 4.00 / 3.96	**SUMANTH ESWARAVAKA** SIFY TECHNOLOGIES 6.50 LPA	**GNAPIKA ALLURI** TATA ELXSI / Mindtree / Tech Mahindra / CTS 5.5 / 4.00 / 4.00 / 4.00
GANDHAVALI HARIVANDANA HCL TECHNOLOGIES 4.25 LPA	**GANAPATHI CHIRUDIVYA** TATA ELXSI / CTS GEN C / Nokia Networks / TCS 5.5 / 4.00 / 6.00/3.96	**SHAIK MARIAM FATHIMA** SIFY TECHNOLOGIES 6.50 LPA	**PONGOTI MOHAN KRISHNA** MIND TREE 4.00 LPA
DEEPIKA M SIFY TECHNOLOGIES 6.50 LPA	**HEMANTH SAI N** CTS GenC / Tech Mahindra / TCS 4 / 4.00 / 3.96	**SENTHIL KUMAR T** TATA ELXSI ECE 5.5 LPA	**CHARANI SRI.D** EXPEDITORS 5.5 LPA

DHANUSH SHOBIN G MIND TREE 4.00 LPA	**VENKATESH PS** GENPACT/LIGHT AND WONDER 8.00/8.75 LPA	**RAHUL M** SIFY TECHNOLOGIES 6.50 LPA	**RIYAS MOHIDEEN M** RAMCO SYSTEMS 4.5 LPA
SANTHANU K.C CTS GEN C 4.00 LPA	**BHUVANESH WARAN. S** EXPEDITORS 5.5 LPA	**PADMANABAN V** TATA ELXSI / Nokia Networks 5.5 / 6.00	**PELLURU MANASA** EXPEDITORS 5.5 LPA
DHARINI.M MIND TREE 4.00 LPA	**SUSCIILKUMAR MS** HCL TECHNOLOGIES 6.00 LPA	**THANESHWARAN R** KAROMI TECHNOLOGIES 4.50 LPA	**SIVAKUMAR E** CTS GEN C 4.00 LPA
HELAN JOICE D MIND TREE 4.00 LPA	**DINESH SHITIK VARSHAN** Mindtree / TCS 4 / 3.96	**ANUSHEYA. AA** MIND TREE/CTS GENC 4.00/4.00 LPA	**CHUNDURUREDDY VENKATA VYSHNAVI** CTS GENC 4.00 LPA

DIVYA B	KAVITHA S	POLU TEJASWINI REDDY	R S JOSH ADITHEA
CTS GENC	CTS GENC	AB Info Solutions	P2F Semiconductor
4.00 LPA	4.00 LPA	6.00LPA	4.00LPA

BOOMIKHA. E	GOWTHAM N	LAENESHVAR V J	SELVA GANDHI P
P2F Semiconductor	TCS	CTS GenC	Stanza Living
4.00 LPA	3.96LPA	4.00LPA	2.25LPA

NANDHIKA G	NAVEEN KUMAR R K	ASHWIN M	Ragul Rathna .T
CTS GenC/P2F Semiconductor	CTS GENC	CTS GenC	Niral Networks
4.00 LPA	4.00 LPA	4.00 LPA	2.5 LPA

SRIKANTH Y Full Creative 4.00 LPA	**K. PAVITHRA** Skill Lync 2.40 LPA	**DINESH KUMAR MP** ZF,Vastu Housing Finance 2.00 LPA,3.5LPA	**PALLAMALLA** Chandrasekhar Byjus 5.5LPA
BALASUBRAMANI M Vastu Housing Finance 3.5 LPA	**MOHAN KUMAR K** Vastu Housing Finance 3.5LPA	**KIRUTHIKA S** Tata Communication 3.6LPA	**LAKSHMINARAYAN AN S** Winomechanic Pvt.Ltd 3.5 LPA
BHARATH RAJ M Winomechanic Pvt.Ltd 3.5 LPA	**RAMESWARAM.N** Winomechanic Pvt.Ltd 3.5 LPA		

PLACEMENT DETAILS 2020 - 2024 BATCH

JATIN KISHORE

ECE

Sify Technologies

7.00 LPA

MEHAJABEEN TABASUM M

ECE

Sify Technologies

7.00 LPA

JASWANTH

ECE

Sify Technologies

7.00 LPA

SHAILESH R

ECE

Sify Technologies

7.00 LPA