Chettinad
College of Engineering & Technology
Approved by AICTE-New Delhi and Affiliated to Anna University-Chennai.

DEPARTMENT OF ECE

E-CHRONICA

MAGAZINE & NEWSLETTER

NH-67, Karur – Trichy Highway, Puliyur CF, Karur, Tamil Nadu – 639114.

https://chettinadtech.ac.in/index.php

TABLE OF CONTENT

PRINCIPAL'S DESK

I congratulate the Department of ECE for releasing their maiden department Magazine, which culminates all the activities, achievements and accolades of the department. I appreciate the editorial board for the same. I urge the department to bring out the best from each student and mentor them to become a successful Engineer with a good academic score, exposure and placement. Best wishes again.

– Dr. A. Punitha, Principal

HoD'S DESK

We believe in giving students a great education that helps them understand their subjects well and build a strong foundation. Our faculties are always working hard to make sure students learn and are ready to face challenges in the future. Our institution is well-respected for its innovative ideas, active involvement, and holistic development of students. I'm proud to be part of the institution that prioritizes students' education above all else. We aim to empower students with knowledge, practical skills, and good values, making them confident and capable individuals. To accomplish this goal, we've organized several workshops, value-added courses, project contests, and cultural competitions for students alongside their regular studies. This magazine and newsletter showcase the diverse talents of our department's students and highlight the achievements of both our faculty and students. I extend my congratulations to all the faculty and students in our department who contribute to making this happen. I also want to express gratitude to our management, principal and Admin officer who consistently motivate and support us in organizing various activities to enrich our students. – Dr. M. Kumar, HoD/ECE

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2007.The department has an intake of 60 students in B.E. course. The department possesses the most advanced equipment in its laboratories. It also provides opportunities to grow and excel in the technical world by conducting regular workshops and programs in various fields. The department is highly active in research work in the fields of broadband communications, VLSI Design, image processing etc. The students are provided adequate training in the field of signal processing, image processing and digital communication. Students are highly motivated to attend in-plant training in some of the most prestigious organizations during their time with the institution.

VISION

To be a provider of quality education in the Electronics and Communication Engineering field that caters to the needs of the society and is in tune with the technological revolution.

MISSION

- To upgrade the technical knowledge of the students continuously by industrial exposure and innovative projects.
- To establish a happy learning environment for the students by active learning of the techniques in the electronics and communications engineering field.
- To nurture career improvement by facilitating skill development and training in the recent technologies.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To gain adequate knowledge to become good professional in electronic and communication engineering associated industries, higher education and research.
- To develop an attitude towards lifelong learning, applying and adapting new ideas and technologies as their field evolves.
- To prepare students to critically analyse existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO1: Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles
- PSO2: Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetism.
- PSO3: Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems

ECE TOPPER'S - NOV-DEC 2023

II'nd Year ECE		III'rd Year ECE		IV'th Year ECE	
Name	CGPA	Name	CGPA	Name	CGPA
Dharani.K	**8.73**	Divya K	**8.58**	Shobana.A	**8.91**
Yuvashree.M	**8.58**	Varni S	**8.36**	Anusiya.M	**8.79**
Devasri.S.P	**8.33**	Navin Kumar.S	**7.91**	Durga Devi.A	**8.71**

STUDENT'S FOLIO

EXPLORING THE FUSION OF IoT AND 5G

- Mr. P. Sozhaeswaren from 3rd year ECE

ABSTRACT:

In contrast, using 4G/LTE networks, 5G will be able to process data quickly, which is a challenge for IoT solutions. The consequence has been long delays from sending data to receiving it. By using the 5G network, more users could continuously send more information without fear of overcrowding the network, leading to delays in the past. The 5G connectivity would allow everyone to realise the IoT technology's strength. Now, IoT potential is vast, but the potential connectivity will come to fruition with 5G technology. Using sensors, "Smart" apps can easily transmit data even from thousands of miles away. In this paper, we discuss the impact and importance of 5G on IoT with its applications. As IoT is more established and essential due to the rapid growth of 5G, we discuss the establishment and necessity of IoT over 5G. Lastly, we focus on the aspect of IoT on updated 5G technology.

INTRODUCTION:

The Internet of Things (IoT) has rapidly expanded, with billions of devices expected by 2020, averaging 6-7 devices per person. Recent discussions focus on 5G, the fifth generation of mobile

communication networks, promising enhanced coverage, reduced latency, and faster connections. 5G's estimated speed is 10 times faster than 4G, with promises of responsiveness, speed, and energy efficiency. Despite its high cost, 5G is expected to revolutionise industries, particularly IoT, projected to reach a market value of $300 billion by 2020 according to Bain and other firms. Researchers and engineers face challenges in developing IoT systems with 5G wireless communications, particularly in integrating cloud and fog computing. The synergy between IoT and 5G promises advancements in machine-to-machine communication and intelligent data analysis.

IoT CHALLENGES:

IoT offers everything systems with the requirement of software and a large number of items must be accessible at low cost. Therefore, IoT's problems and the core criteria are Energy efficiency, Scalability, Resilience, Interoperability, Cloud-based IoT network environment, Multimedia IoT support, Team communication.

5G CHALLENGES: Early challenges in 5G development encompass spectrum band utilisation, gradual transition from 4G, core network enhancement, data interoperability, and establishing cost-effective business models. These challenges involve optimising frequency bands, ensuring seamless migration, upgrading core infrastructure, achieving UE-network interoperability, andevising viable business strategies for industries.

THE IMPORTANCE OF 5G ON THE IOT:

The exponential growth of IoT demands efficient network handling. Transitioning from 4G to 5G is pivotal, with projections of 40-140 billion IoT devices by 2030.While 4G accommodates up to 6000 NB-IoT devices per cell, 5G can manage up to one million devices, significantly enhancing connection scalability. With 5G's optimised single-network approach, massive data transfers across diverse IoT applications become seamless, effectively addressing scalability challenges.

5G CHARACTERISTICS:

Together, 5G and IoT revolutionise consumer product connectivity, enabling real-time data exchange via various technologies like scanning and RFID. 5G's enhanced wireless infrastructure supports the growing network of devices, empowering innovations like Smart Packaging, Digital Labels for inventory management and consumer interaction. Unlike 4G, 5G's high speed, low latency, and energy efficiency cater to IoT's expanding capabilities, promising transformative impacts across industries and society.

Characteristics	Application
Network characteristics	Cloud computing, software engineering, virtualization, slicing
Maximum data rate	20 Gb/s
Maximum experienced data rate	0.1 Gb/s
Efficiency rate	3 times of 4G
Network efficiency	10–100 times of 4G
Traffic capacity	10 Mb m^2/s
Density of the connectivity	10^6 devices/km^2
Latency	1 ms
Mobility	500 km/h
Technology	Cloud/fog/edge computing, massive MIMO, flexible frame structure, network slicing
Usage scenario	eMBB, URLLC and mMTC

THE IMPACT OF 5G ON IOT:

5G addresses the challenge of disconnected networks in IoT by enabling rapid data transmission and accommodating more connections, streamlining device management. Its processing speed surpasses that of 4G/LTE, reducing delays that hindered

IoT solutions. With 5G, IoT's vast potential can be fully realized, empowering seamless data transmission over long distances via sensors and smart apps. The advent of 5G transforms cities into smart hubs, benefiting businesses and residents alike. Leveraging 5G, companies can invest in IoT with confidence, benefiting from enhanced connectivity and scalability, propelling constant growth and innovation in IoT solutions.

CONCLUSION:

In conclusion, the evolution of mobile broadband from 2G to 5G represents a significant advancement in networking technology. With 5G, computing capabilities are seamlessly integrated into the network, allowing devices to offload tasks and unleashing the full potential of the Internet of Things (IoT). This results in unprecedented levels of interaction between humans and devices, driving forward IoT innovations. Leveraging a single 5G network offers increased efficiency, cost-effectiveness, and scalability across various IoT applications. Additionally, the impressive features of 5G, such as high speeds, low latency, extensive coverage, and enhanced data traffic protection, mark the beginning of a new era characterised by heightened connectivity and innovation.

EFFECT OF E-WASTE IN OUR WORLD

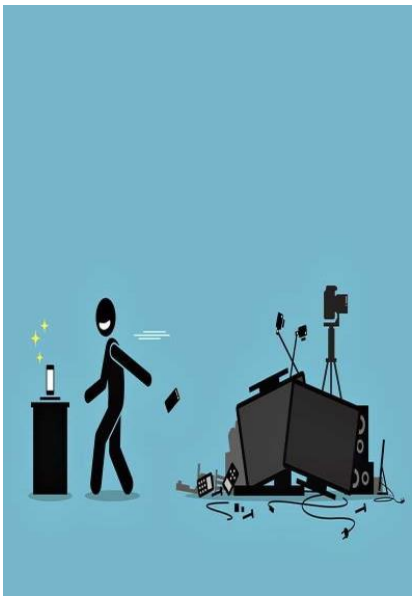
-Mr. M. S. Deepak from 1st year ECE

INTRODUCTION:

Electronic Waste (E-Waste): Every year, millions of discarded electrical and electronic devices, such as computers, mobile phones, and appliances, contribute to the growing e-waste stream. When not properly treated, e-waste poses environmental and health threats. Toxic substances, including heavy metals like lead, are released during inferior recycling practices. Vulnerable populations, like pregnant women and children, face risks due to exposure. Despite international regulations, the trans boundary movement of e-waste continues illegally. Safeguarding against inferior recycling methods is crucial for public health and safety. Let's address e-waste responsibly!

PROBLEMS ON EWASTE:

E-Waste Challenges: Improper disposal of e-waste emits pollutants, posing environmental and health risks. Developing nations often receive e-waste for cheaper processing, leading to unsafe disposal methods. Toxic substances harm workers, and contaminated e-waste can even enter the food chain12.



CONTROLING EWASTE IN AROUND US:

Choose Refurbished Electronics:

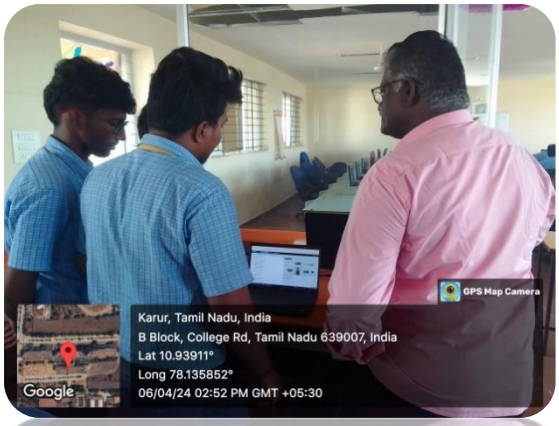
Refurbished laptops, smartphones, and other devices**. They work well, cost less, and have a lower environmental footprint. Reputable ITAD services specialize in refurbishing electronics, ensuring quality and data security.

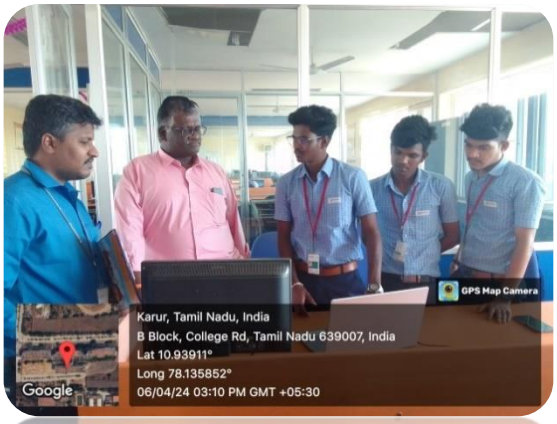
1. Extend Device Lifespan: Proper maintenance practices, like regular cleaning and software updates, can significantly extend the lifespan of electronic devices. Repair rather than replace whenever possible.

2. Donate or Sell Unwanted Devices: Instead of discarding old devices, donate or sell them. Someone else might find them useful. This reduces e-waste and promotes reuse.

MINI PROJECT EXPO'24

A Mini project Expo was conducted at our Chettinad College on 6th April, 2024. Our Electronics and Communication Engineering students innovated new ideas and made a creative project in their domain. Our First Year and Final Year Students won and received a cash prizes. All our students' ideas were very useful and innovative in their domains. The purpose of the mini-project is to allow you to explore the breadth of research that is being performed within the college. The mini project exhibition showcased an impressive array of innovative and creative projects created by the students. The event provided an excellent platform for students and faculty to witness the culmination of hard work, creativity, and innovation in diverse fields.

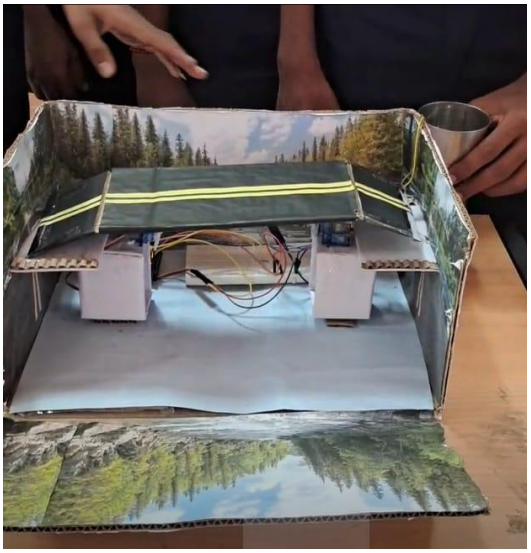




Our students innovated their ideas as projects and few projects are presented here.

Smart bridge using Arduino

Batch Members	Title of the Project
T. Sivatamil A. Saravanakumar T. M. Pragadeesh R. Hariharan	Smart bridge using Arduino



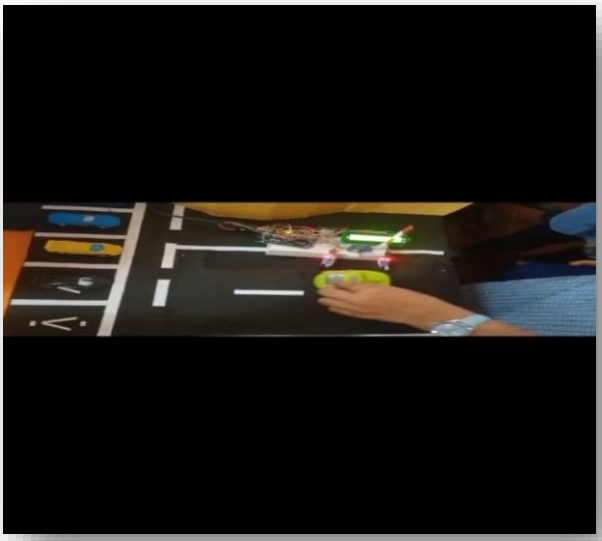
Floods lead to a vast loss of life and property in many countries. But in developing countries the lack of proper technology leads to more loss of life and property due to flood. Bridges are important in modern world. Bridges add beauty to the roads. Bridge failures are one of the most infrastructure problems in the world. It often leads to the catastrophic consequences, loss of life, restricted commerce. Whenever there is a disaster there is loss of lives, damage to the public property. The objective of this project is to monitor the flood situation and automatically lift the bridge. A smart bridge is one that senses some significant condition of its environment or behaviour and then automatically reacts to that condition. This bridge is equipped with an Arduino, servo motor, soil moisture sensor and other components that help adjust its height based on the water level.

Output and Team Members:

Smart car parking

system using Arduino UNO

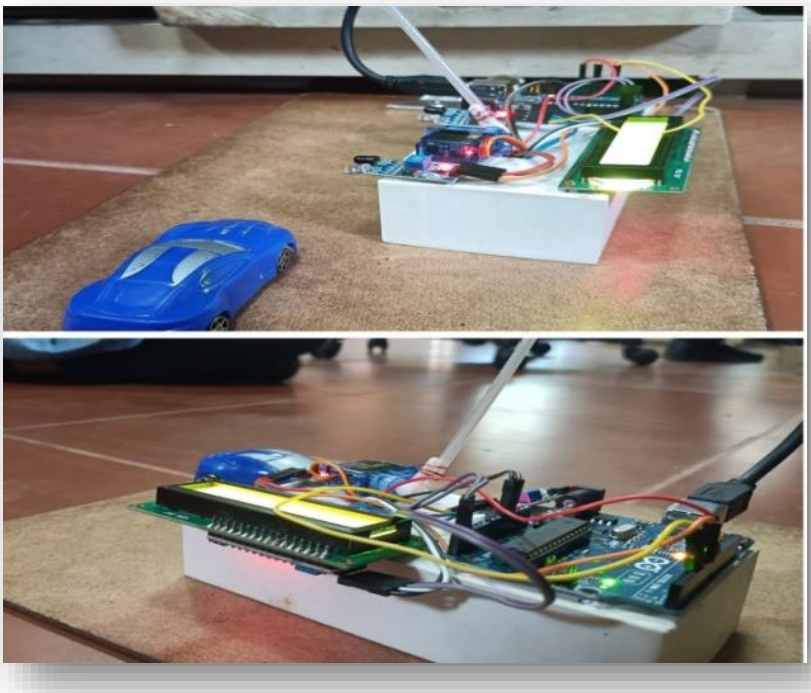
Batch Members	Title of the Project
N. Yuvashree R. Srinidhi P. Poorva sri H. Pooja	Smart car parking system using Arduino UNO



A smart car parking system is an advanced technology that aims to optimize the process of parking vehicles in urban areas. The Smart Car Parking System is an innovative solution designed to address the growing challenges of urban parking management. The system typically utilizes various sensors and connectivity to provide real-time information to both drivers and parking managements. This system leverages advanced technologies such as Arduino, sensors and real-time data analysis to optimize parking system space allocation and enhance the overall parking

experience. By providing real-time information to both drivers and parking administers, the system aims to reduce congestion, save time, and improve environmental sustainability. The system is designed to offer a seamless and convenient parking expire while contributing to the optimization of urban traffic and reducing environment impact. By providing real-time information to both drivers and parking administers, it offers a glimpse into the efficiency and convenience that the Smart Car Parking System offers in today's increasingly urbanized world.

Output:



Arduino Gas Sentinel: Safeguarding Against LPG Hazards

Batch Members	Title of the Project
K. Dharani S. P. Devasri A. Jeevakarunya R. Veena	Arduino Gas Sentinel: Safeguarding Against LPG Hazards

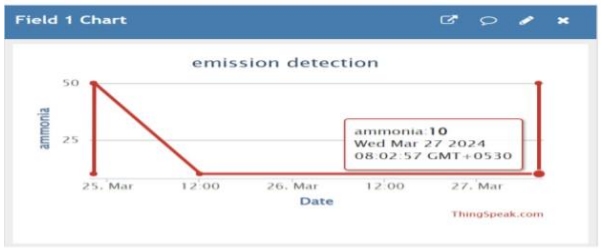
This project introduces an affordable LPG gas sensor system using two LEDs, one LCD, buzzer for effective gas leak detection System includes visual (LEDs), numerical LCD, for sound (buzzer) feedback, ensuring user-friendly and reliable monitoring of LPG gas concentration. The Buzzer, emitting a distinct sound that ensures users are promptly aware of the gas presence. The integration of these components increase the chance of safety measures by promptly alerting individuals to potential hazards in domestic or industrial environments. This project enhances our understanding of gas detection technology.

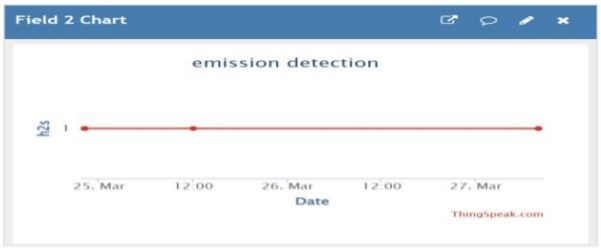
Automatic Sensor Model to detect NH3/H2S Gas Emissions

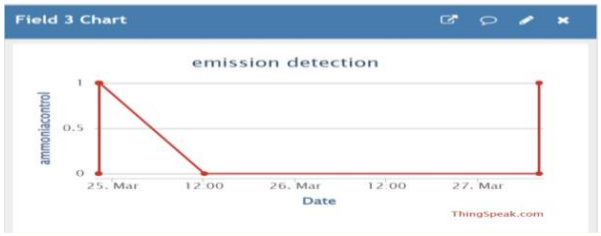
Batch Members	Title of the Project
Alagesan K Jeevanantham C Saravanakumar P Santhoshkumar M	Automatic Sensor Model to detect NH3/H2S Gas Emissions

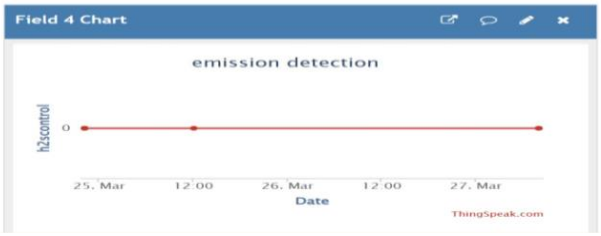
Industrial facilities and various environments pose the risk of ammonia (NH3) and hydrogen sulphide (H2S) gas emissions, which can have severe health and environmental implications. Developing an automatic sensor model capable of accurately detecting these gases is imperative for timely mitigation and safeguarding of human health and the environment. This paper presents a novel automatic sensor model designed specifically for the detection of NH3 and H2S gas emissions. The proposed sensor model integrates advanced sensing technologies with data processing algorithms to achieve reliable and real- time detection of NH3 and H2S gases. The sensor system employs a combination of gas sensors specifically calibrated for NH3 and H2S detection, ensuring high sensitivity and selectivity. Additionally, the model incorporates signal processing techniques to enhance the accuracy and robustness of gas detection in diverse environmental conditions.

Output:







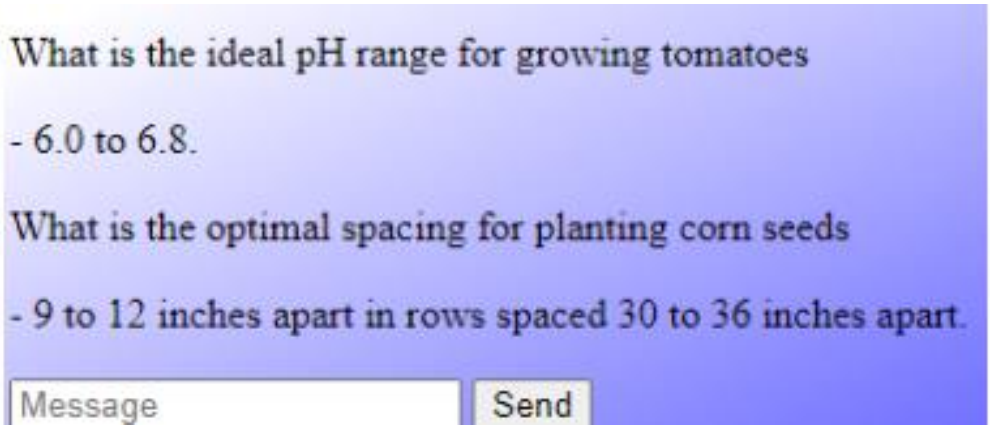


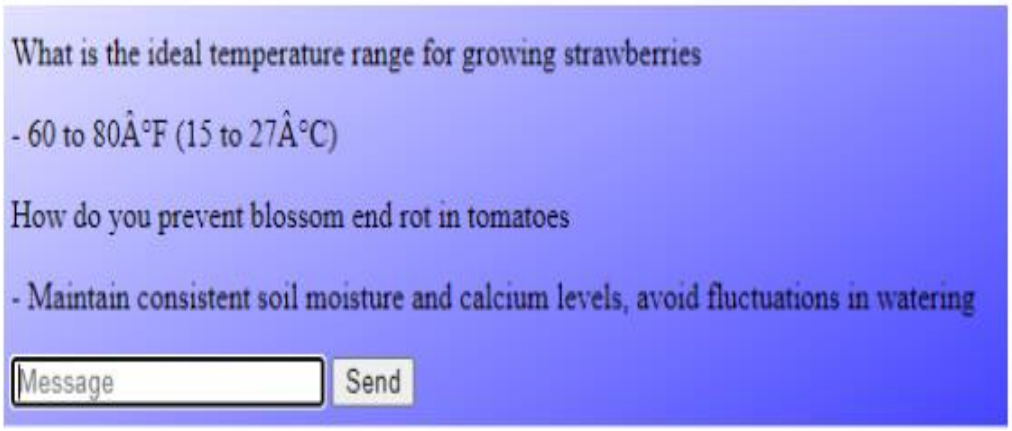
Advanced Agricultural Chat Bot

Batch Members	Title of the Project
Revathi S Anusiya M Deva Dharshini M Buviya R	Advanced Agricultural Chat Bot

Nowadays small scale farmers address many challenges in the agricultural field. This involves enhancing crop management, income and food security through real time soil testing, pest detection and autonomous operations. The Proposed agricultural bot aims to revolutionize small-scale farming by integrating advanced technologies for enhanced crop management, increased income and improved food security. Leveraging real-time soil testing, pest detection, and autonomous operations, the system seeks to double agricultural output and income for small-scale farmers. Through innovative automation and data-driven decision making, the project addresses the key challenges faced by farmers, paving the way for sustainable and efficient farming practices.

Output:


What is the ideal pH range for growing tomatoes
- 6.0 to 6.8.
What is the optimal spacing for planting corn seeds
- 9 to 12 inches apart in rows spaced 30 to 36 inches apart.
Message
Send

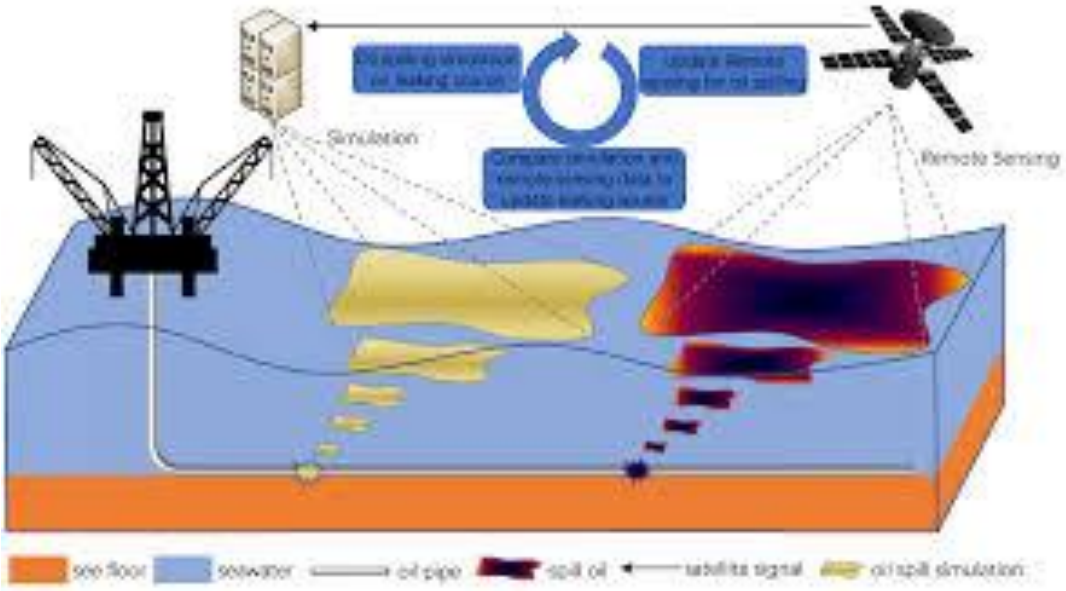

What is the ideal temperature range for growing strawberries
- 60 to 80Â°F (15 to 27Â°C)
How do you prevent blossom end rot in tomatoes
- Maintain consistent soil moisture and calcium levels, avoid fluctuations in watering
Message
Send

Reliable Gas and Oil Detection

Batch Members	Title of the Project
Arunprasath.B Dhanushkarthick.D Sabarianandan.T	Reliable Gas and Oil Detection

The oil and gas industry faces inherent risks, including the potential for hazardous events such as leaks, fires, and explosions. Developing an effective sensor-based alarm system is crucial for timely threat detection and response. This paper proposes a comprehensive approach. such a system, leveraging advanced sensor technologies and real-time data analytics.

Output:

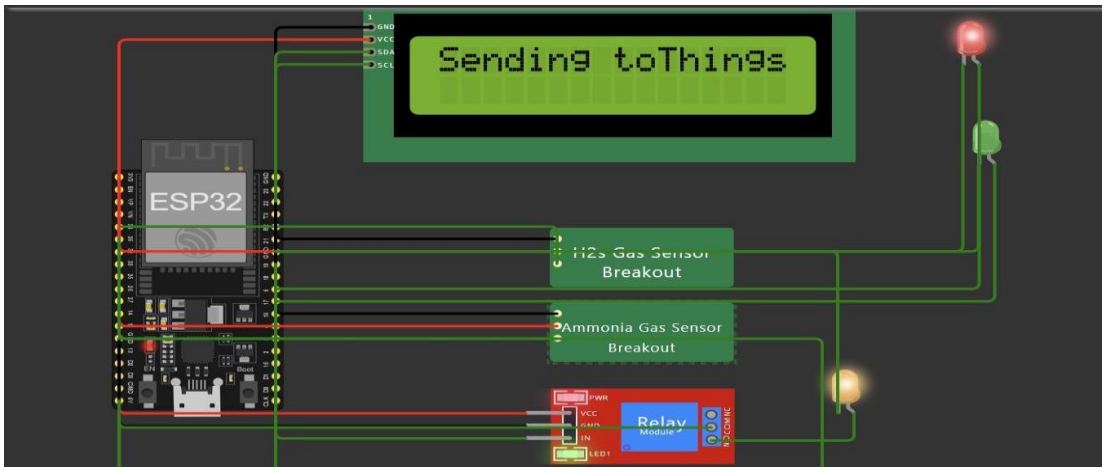


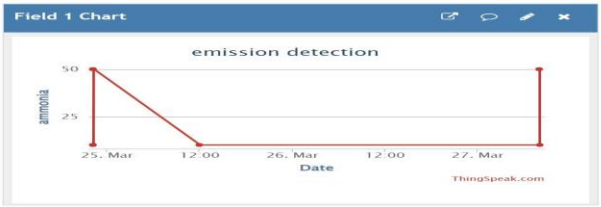
Automated Poultry Farm Emissions Monitoring System

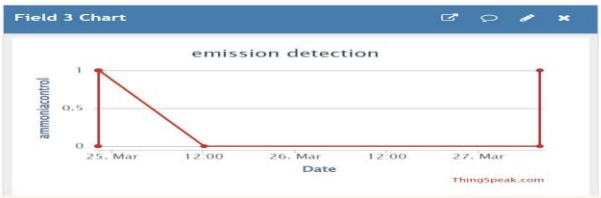
Batch Members	Title of the Project
K. Divya M. Jeevitha M. Megarnisha Begum	Automated Poultry Farm Emissions Monitoring System

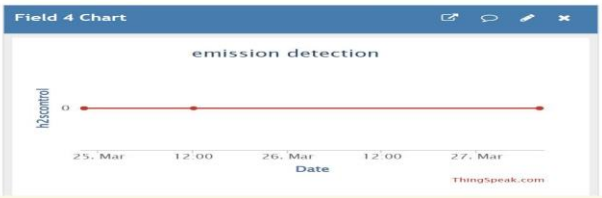
This project develops a sensor model for monitoring NH3 and H2S emissions in poultry farms, utilizing advanced sensors. Integrated with environmental parameters, the model ensures accurate detection and early warning of elevated emission levels.

Project Output:







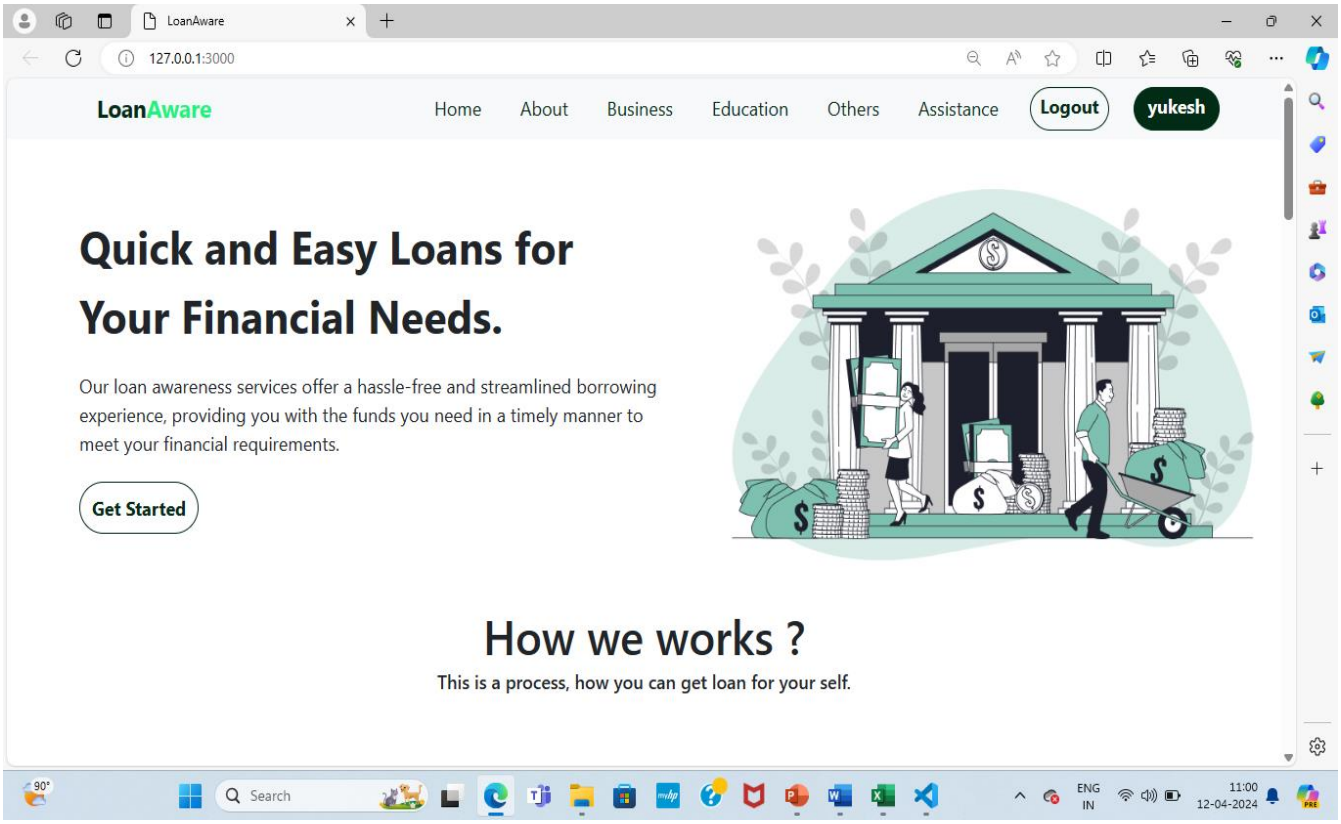


Lack of Awareness of Loan Schemes of DIC Office

Batch Members	Title of the Project
K. Balamurugan R. Harish S. Naveenkumar B. Raghul	Lack Of Awareness of Loan Schemes of DIC Office

This project aims to develop a comprehensive online platform to enhance loan awareness among Indian consumers. Leveraging the power of technology and financial expertise, the portal aggregates information from various sources, including RBI guidelines, banking institutions, and financial comparison websites. Users can access details about different loan products, eligibility criteria, interest rates, and application procedures through a user-friendly interface. The platform also offers educational resources to empower users with knowledge about responsible borrowing practices and financial literacy. By promoting transparency and providing valuable insights, this initiative strives to enable individuals to make informed decisions regarding loans, fostering financial well-being in the Indian community.

Project Output:



ART WORK

- ✓ Our ECE students C. Ramya and A. Jeevakarunya from II Year have a talent for artwork.
- ✓ Our ECE student M. Megarnisha Begum from III Year has a talent for artwork.

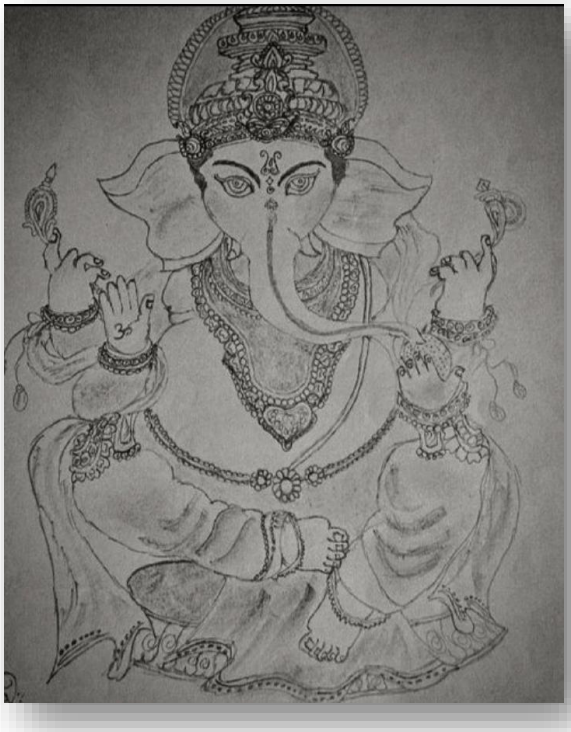
Art by C. Ramya II Year

Art by C. Ramya II Year

Art by

A. Jeevakarunya

II Year



Art by C. Ramya II Year

Art by
M.Megarnisha Begum
III Year

PHOTOGRAPHY

A. Saravanakumar from 2nd Year has a talent for Photography. Natural scenarios can provide such beautiful subjects for photography.

M. Arsath Ansari from 2nd Year has a talent for Photography. Natural scenarios can provide such beautiful subjects for photography.

VALUE ADDED COURSE

Chettinad College of Engineering and Technology recently conducted four value-added courses that greatly benefited our students. These courses were designed to enhance the students' knowledge apart from their regular curriculum and helping them acquire valuable skills. Each student had the opportunity to learn multiple skills in areas such as C programming, VLSI, and Arduino UNO, among others. These courses have proven to be instrumental in their academic and professional development.

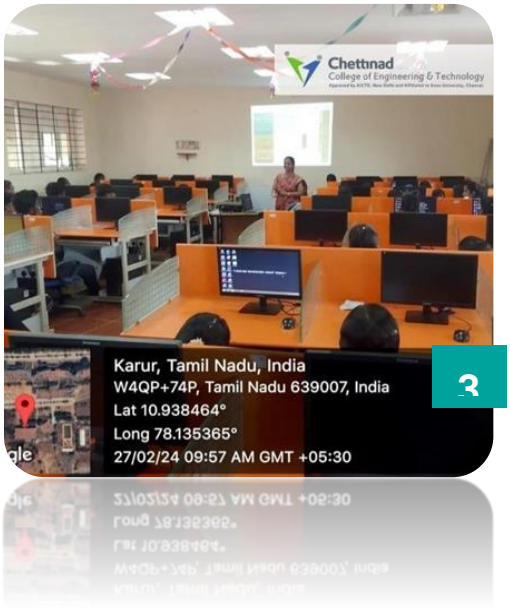
1 VALUE ADDED COURSE ON ARDUINO PROGRAMMING

Our ECE Department successfully conducted “Two Day Hands on Training on Arduino Programming” from 29.09.2023 to 30.09.2023. The purpose of this course is to provide students with practical skills and knowledge in Arduino Programming and its applications. All the II year ECE students actively participated and at the end of this course, the students had the ability to make Arduino with Tricolour LED and Push button, display counter, Interface DC and Servo Motor, Interfacing LCD, Wireless Connectivity

2

VALUE ADDED COURSE ON IOT SYSTEMS USING CISCO PACKET TRACER

Our Department of Electronics and Communication Engineering successfully conducted a Three Day Value Added Course on “IoT Systems using CISCO Packet Tracer” for our II year ECE Students handled by Resource Persons Ms. G. Rajeswari, AP/ECE and Former Embedded Developer, Ms. R. S. Mathubala, AP/ECE from Vivekanandha College of Engineering for Women (Autonomous) and Internal Faculty Mrs. A. Karthikeyani, AP/ECE and Mrs. P. Nagarani Sobana, AP/ECE from 26.02.2024 to 28.02.2024. The course covered the foundation of networking and network devices, media, and protocols and IoT systems. The students had a hands-on experience on CISCO Packet Tracer Tool usage and observed data flowing through a network and basic device configuration to connect to networks using switch, router, implemented the Webpage using DNS and Web Server.

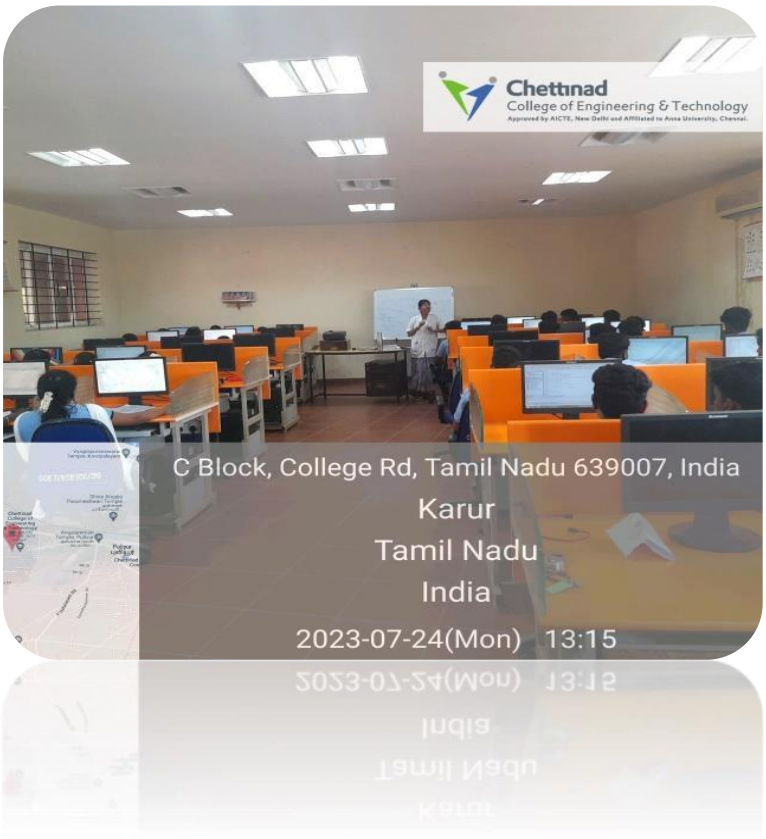


VALUE ADDED COURSE ON C PROGRAMMING

The department of Electronics and Communication Engineering organized Hands-on Training on C Programming for III ECE students. The sessions were handled by our beloved Principal Dr. A. Punitha, and Mrs. N. Thamizhmozhi, AP/AI&DS. The outlined topics covered during the training, such as Operators, Expressions, Control Statements, Storage Class, Array and its types, Strings, Prototypes, Structures, and File Handling, provide a comprehensive overview of the fundamental concepts in C Programming. These concepts are crucial for building a strong foundation in programming.

4 VALUE ADDED COURSE ON VLSI DESIGN

Our ECE Department was successfully conducted “Three Day Value Added Course- VLSI Design “from 24.07.2023 to 26.07.2023. The main objective of this VLSI Design course was conducted to know the concept of fundamentals of VHDL coding and also various modeling types like structural, behavioral, dataflow, schematic of VLSI design with the help of Xilinx and Micro wind tools. All the IIIrd year ECE students actively participated and at the end of this course, the students have learned from digital circuits like gates, combinational like Multiplexer, Demultiplexer, encoding, decoding part and sequential circuits such as various flip-flop designs with simulation and also done various CMOS logic design.



GUEST LECTURE

1 **Dr. N. Sampathkumar** Principal, SSM College of Arts and Science, Dindigul delivered a talk on “Role of Basic Sciences in Engineering”. He shared that Science is actually the basis of engineering. There are physical principles embodied in the study of physics, mathematics and chemistry that lead to engineering applications. He explained clearly how physics mathematics and Chemistry is applied in various Engineering disciplines with many examples. He finally concluded that a deep understanding of each one of those areas is required to become a successful engineer in each discipline.

2 The Department of Electronics and Communication Engineering conducted the inauguration function of ECE association on 05.09.2023 with the Chief Guest, **Mr. Arun Ramachandran**, Technical Architect, Tata Consultancy Services, Chennai. The inaugural function started with the welcome address given by Mr. R. Bubalakannan, III ECE. The function was graced with the presidential address by Dr. (Mrs). A. Punitha, Principal of CCET and felicitation address was given by Dr. M. Kumar, HOD-ECE. Office bearers of the ECE association for the academic year 2023 – 2024 were introduced to the students and the chief guest distributed the certificates and prizes for the winners of various competitions conducted through ECE association.

ALUMNI INTERACTION
- Ms. S. Haripriya

The Alumni Interaction on “Web Development” was held by the department of ECE on 27.10.2023. Our prominent alumni Ms. S. Haripriya, Developer, Mallow Technologies, Karur. Ms. P. Poova sri, of II ECE, welcomed the gathering. Mr. R. Bubalakannan of III ECE, introduced the Chief Guest to the gathering. Dr. M. Kumar, Head of the Department, honoured the chief guest with a memento.

Ms. S. Haripriya shared her experience in the field of web development and she elaborated the key technologies for web development, front end versus back end, tools and frameworks, web development process. She gave many links to search for desired jobs to the students and at the end of the session there was an interactive session with the alumni answering to various queries raised by the students.

TECHNICAL EVENTS

1 VISHISHTAH 2K24

The "**VISHISHTAH 2K24**" technical contest was conducted for our ECE students on February 16. All the teams enthusiastically took part in the contest and showed their hidden talent and thinking. This event helps the students to promote technical learning, problem-solving, and creativity in an engaging and competitive setting.

2 ELECTRONIZ'23

The "ELECTRONIZ „23" technical contest was conducted for our ECE students on November 7 th, 2023. All the teams enthusiastically took part in the contest and showed their hidden talent and thinking. This event helps the students to promote technical learning, problem-solving, and creativity in an engaging and competitive setting. This event helps the students to challenge participants with logic-based puzzles, promoting critical thinking, problem-solving, and pattern recognition skills.

3 TECHNOPPPHILIA'23

The "TECHNOPHILIA 2K23" technical contest was conducted for our First Year ECE students on November 3.11.2023. All the teams enthusiastically took part in the contest and showed their hidden talent and thinking. This event helps the students to inspect the code for any typographical errors, such as misspelled function or variable names, even a small mistake. This event helps the students to increase their creative skills. Participants are required to make a communication design within the particular time.

4 TECH HERZ'2K23

The "TECH HERZ 2K23" technical contest was conducted for our ECE students on September 13th and 15th. All the teams enthusiastically took part in the contest and showed their hidden talent and thinking. This event helps the students to get knowledge on recent trends and technologies related to ECE and to acquire knowledge on technologies discovered by whom and when. This event helps the students to increase their creative skills. Participants are required to make a communication design within the particular time.

VYUHAA'24

- ✓ Our students participated in various events in the "VYUAA'24" like Solo dance, Short Film, Cooking without Fire, Mimicry, Face Painting, Craftwork, Mimi, solo singing, Instrumental Music and Group dance.
- ✓ In this event our 3rd Year student Bubalakannan won the 2nd prize in solo dance.

- ✓ Sabarianandan from 4th Year won the 1st prize in Cooking without fire.

✓ Revanth from 4th Year won the 1st Prize in Mimicry.

✓ Bubalakannan Team won the first prize in Mime.

✓ Nithish Kumar Team from 3rd Year student got the 1st prize in Short Film.

✓ Aravind Team from 3rd year students got a 2nd prize in Group dance.

- ✓ Mr. B. Sathish Kumar, the Administrative Officer, along with Program Coordinators Dr. J. Kavitha, Mr. S. Ragul, Dr. B. Balasubramanian, Ms. P. Nagarani Sobana, and all staff members, diligently organised and ensured the grand success of this fest.
- ✓ The Department of Electronics and Communication Engineering won the overall trophy, with prizes presented by our Principal and Program Coordinators to the competition winners.

Workshop - Digital Design with Verilog HDL and Xilinx Vivado

-Mr. V. Govindaraj

The Department of Electronics and Communication Engineering recently organized a workshop focusing on Digital Design with Verilog HDL and XILINX VIVADO for III ECE students, conducted by our alumnus Mr. V. Govindaraj. The sessions were designed to provide students with practical insights and hands-on experience in digital VLSI.

The instructional approach adopted for the workshop prioritized activity-based learning. This methodology empowers students to engage directly with the material, fostering a deeper understanding of the concepts. By actively participating in the sessions, students not only absorbed information more effectively but also honed their skills through practical application.

The workshop covered a range of topics essential to digital design using Verilog HDL and VIVADO. These included understanding Verilog HDL, the chip fabrication process, various styles of modeling, and test bench architecture. By delving into these subjects, students gained a comprehensive overview of fundamental concepts crucial for success in the field of digital VLSI design.

The knowledge and skills acquired during this workshop serve as a solid foundation for students as they continue their journey in electronics engineering. Such initiatives not only enhance academic learning but also prepare students for real-world challenges in their chosen field.

Student Peer Learning Seminar- Web Designing

-Mr. R. Harish

Ever wondered about the magic behind the websites we visit every day? Meet Harish R, a 3rd-year student at Chettinad College of Engineering and Technology, who took the reins to unravel the secrets of web designing in a peer learning session on August 11, 2023.

In this session, Harish demystified web designing, breaking it down into simple terms. He kicked things off by explaining what web designing is all about: making websites look good and easy to use? But wait, isn't that the same as web development? Not quite! Harish clarified the difference, pointing out that while web designing focuses on the appearance and layout of websites, web development is more about the technical stuff.

To get everyone on the same page, Harish introduced the building blocks of web designing: HTML, CSS, and JavaScript. Think of HTML as the skeleton, CSS as the clothes that make it look cool, and JavaScript as the brains that add fun and interactive features.

Now, here's where things got really exciting. Harish didn't just talk the talk; he walked the walk by showing everyone how to create a basic website using HTML, CSS, and JavaScript. It was like a mini DIY project where everyone got to roll up their sleeves and dive into the world of web designing.

By the end of the session, participants were buzzing with newfound knowledge and a sense of accomplishment. Thanks to Harish's passion and guidance, they had taken their first steps into the fascinating realm of web designing. It was a journey of discovery, empowerment, and collaboration, proving that with a little guidance, anyone can unlock the wonders of the web.

STUDENTS ACHIEVEMENTS & PARTICIPATIONS

1 CONFERENCE & JOURNAL PAPERS

- ✓ Dr. M. Kumar, Anusiya M, Buviya R, DevaDharshini M, Revathi .S **"Chatbot - AI driven interactive agri bot providing realtime assistance in cultivation and market linkages** published in IJCRT journal paper.

- ✓ Mr. M. Selvan, Srinithi K, Anusiya J, Mohanapriya S, Nithiya .T.R **"Device to collect plastic wastes in oceans** published in IJCRT journal paper.

- ✓ Mr. K. Sathiskumar, Naveen V, Karankumar D, Sivaraman.A, Santhoshkumar V **"Prototype automotic sensory firefighting drone".** published in IJCRT journal paper.

- ✓ M. Prabhakaran, Santhoshkumar M, Alagesan K, Jeevanantham C, Saravanakumar P **"Sensory detector of hazardous gases in poultry farms"** published in IJCRT journal paper.

- ✓ Mrs. A. Karthikeyani, Arunprasath B, Sabarianandan T, Dhanushkarthick D **"Sensor based alarm in oil and gas industry to alert any threats"** published in IJCRT journal paper.

- ✓ Ms. D. Ragavi, Sneka L, Durgadevi A, Mariaepsiba A, Thamaraiselvi S **"Satelite imagery system for pruning vegetation interference in power transmission lines"** published in IJCRT journal paper.

- ✓ Ms. J.J enisha, Nandhini S, Gayathri P, Shalini S **"GIS app for flood management"** published in IJCRT journal paper.

- ✓ Mr. M. Selvan, Kamali C, Malathi G, Mariya Dhivya M, Balamani P **"Automated controller of street light management systems"** published in IJCRT journal paper.

- ✓ Ms. D. Ragavi, Sakthi S, Karthik S, Rajavel N, Sathiyamoorthy M **"System for penetrative emergency communication system"** published in IJCRT journal paper.

- ✓ Dr. M. Prithiviraj, Aravindh M, Gopinath S, Lokesh B, Revanth S **"Prototype - prosthetic arm"** published in IJCRT journal paper.

- ✓ Dr. M. Kumar, Thamayanthi K, Varshini K, Vimala S, Reethika B **"ML assisted image processing software in medicinal plants management and related supply chain"** published in IJCRT journal paper.

- ✓ Mrs. P. Nagarani sobana, Harish K, Loganathan P, Vignesh J **"GIS - deep sea fishing App"** published in IJARESM journal paper.

- ✓ Mrs. A. Karthikeyani, Sudhan R, Ashokumar R, Surya K **"Application to detect fake social media profiles using block chain to support law enforcement"** published in IJARESM journal paper.

- ✓ . Prabhakaran, Shobana A, Sapna S, Harini S, Vedhashree R **"AI driven sensor driven system for irrigation and water waste minimization"** published in IJCRT journal paper.

2 PAPER PRESENTATIONS

- ✓ **Abisekar P, Saravanakumar A** have participated in National level technical Symposium, PINNACLE 2K24, Coimbatore Institution of Technology on 22nd March

- ✓ **Pooja H, R. Srinidhi** and **N. Yuvashree** have won second prize in paper Presentation, N.S.N.College of Engineering and Technology, Karur on March 22nd, 2024.

- ✓ **Dharani K** has participated in National level technical Symposium, TECH SPURTZ 2K24, Nandha College Of Technology,Erode on 22nd March.

- ✓ **Preethi C, Arsath Ansari M** have participated in Project Presentation, N.S.N.College of Engineering and Technology, Karur on March 22nd, 2024.

- ✓ **MathanRaj S, Arsath Ansari M** have participated in National level technical Symposium, IGNITRA 2K24, Nandha College Of Technology, Erode on 21st March.

- ✓ **Balamurugan K, Harish R, Gowsalya B, Abrami M** have participated in National level technical Symposium, Nandha College Of Technology, Erode.
- ✓ **Kathrivel** has participated in Project Presentation, at Sethu college of Engineering

- ✓ **Gayathri, Divyadharshini, Varni, Lavanya** have participated in Project Presentation at Eswar College Of Engineering, Coimbatore.

2 COURSE ATTENDED

- ✓ **Sabareesan S** completed course on Incredible Electronics, Advanced Electronics, Embedded System, Satellite Technology offered by Chitti on 26th March,2024.

- ✓ **S. P. Devasri** completed course on Introduction to Graphics Designing; of UI/UX, Photoshop on 2nd March,2024.

- ✓ **Jeevakarunya A** completed course on Front End Development-HTML, Intro to Web Designing by Great Learning on March, 2024.

- ✓ **Dharani K** completed course on OSI Model: Physical Layer, Computer Architecture: Digital Component, Data Structure in C by Great Learning on March 2024.

- ✓ **N. Yuvashree** completed course on Game development using PyGame, Chatgpt for Everyone, C Programming Language on December 2023.

- ✓ **Sozhaeswaran P, Balamurugan K, Bubalakannan R, Varni S, Gayathri T, Abirami M, Abarna K, Raghul B, Gunasekar M, Nishok E, Aananth, Naveen Kumar, Manirathinam and Nithish Kumar** completed course on VLSI for Beginners by National Institute of Electronics and Information Technology, Calicut on March 2024.

3 WORKSHOPS

- ✓ **Abisekar.P** and **A.Saravanakumar** attended Workshop on topic **"Vehicle AD-HOC Networks"** at Coimbatore Institute of Technology, on 22nd March, 2024.

- ✓ **K.Dharani, A.Jeevakarunya, S.P.Devasri,** and **A.Alagumeena,** attended workshop on **"Drone Technology"** at SNS College of Technology on 5th March.

- ✓ **Rithika.B, Dharnika.R, V.Harisha, N.Yuvashree, R.Srinidhi,** and **M.Srinithi** attended at Vivekanandha College of Engineering for Women on 29.2.2024.

- ✓ **N.Yuvashree, R.Dharanika, V.Harisha, M.Srinithi, R.Srinidhi,** and **B.Rithika** attended workshop on topic **"Signal Processing"** at K.Ramakrishnan College of Engineering on 13.3.2024

- ✓ **Pooja.H** and **Poova Sri.P** attended two days' workshop on topic **"Arduino Sensor Playground"** at N.G.P.Institute of Technology on 4th and 5th March.2024.

- ✓ **X.Stanly sebin, S.Veeramani, M.S.Sheik Fayaz Ahamed** attended Workshop on IoT and Sensors at Sastra deemed to be university on 8th March 2024.

- ✓ **Ramya.C, Neha.N, Moshika.S, Kaviya.E, Preethi.C** attended workshop on "Ethical Hacking Workshop" at Kongu Engineering College (Autonomous) on 15thMarch 2024.

- ✓ **K.Janarthanan** attended Workshop on "Bash Bliss" at PSG institute of technology on 15th and 16th March2024

4 TECHNICAL EVENTS

- ✓ **Gayathri, Divyadharshini, Varni, Lavanya** have participated in Technical events at Eswar College Of Engineering, Coimbatore.

- ✓ **Ragav.K, Kiran.G, Yugesh Kannan.G**, have participated in Technical events at Hindusthan College Of Engineering and Technology.

- ✓ **Balamurugan.K, Harish.R, Gowsalya.B, Abrami.M** have participated in Quiz National level technical Symposium, Nandha College Of Technology, Erode .

- ✓ **Nithish Kumar, Manirathinam, Bubalakannan** have won the First Prize in Short Film at Mahendra College Of Engineering And Technology.
- ✓ **Jeevitha.M, Divya.K** have won the Fourth Prize in Short Film at Mahendra College Of Engineering And Technology.

- ✓ **Bubalakannan** has won the First Prize in Web Designing at Mahendra College Of Engineering And Technology.

- ✓ **Dharani.K** has participated in Circuit Debugging, TechWizz at National level technical Symposium, TECH SPURTZ 2K24, Nandha College Of Technology,Erode on 22nd March.

- ✓ **Dharani.K** has participated in Connexion at National level technical Symposium, TECH SPURTZ 2K24, Nandha College Of Technology,Erode on 22nd March.

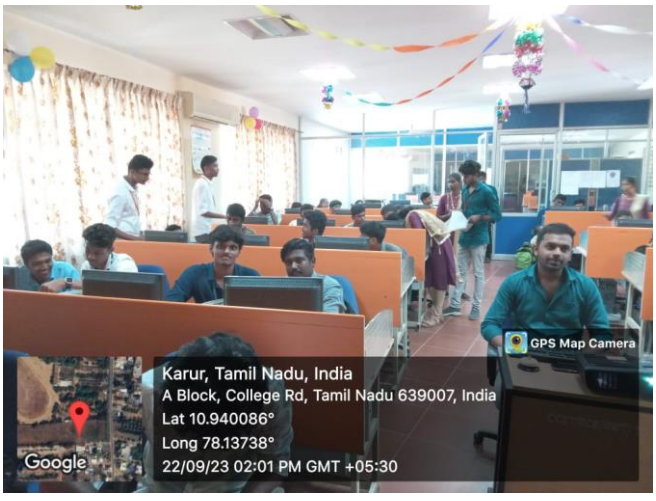
- ✓ **Janarthanan.K** has participated in Technical Quiz,UDHAYAM-24 at KIT-Kalaignarkarunanidhi Institude Of Technology.

- ✓ **Janarthanan.K** has participated in Code Debugging,UDHAYAM-24 at KIT-Kalaignarkarunanidhi Institude Of Technology.

- ✓ **Pooja.H** has participated in Circuit Surge, Ink and Insights, Shipwreck, Mind Maze Escapade “Henosis2K24” at Dr. N.G.P. Institude Technology(Autonomous) on March 4th and 5th2024.

5 SYMPOSIUM

The department of Electronics and Communication Engineering, Chettinad College of Engineering and Technology, Puliyur, Karur, hosted a highly successful technical symposium called BRAHMSTRA on September 22nd 2023. This symposium was grand amalgamation of technical, non-technical and on-spot registration event, aimed at providing a comprehensive platform for intellectual exploration and skill enhancement. BRAHMASTRA attracted an impressive turnout with more than 150 registrations from 20 different institutions. This broad participation highlighted the symposium's append significance in the academic community.



6 TANCET

- ✓ **Naveen.V** of final year ECE Department has scored **88%** in TANCET.
- ✓ **A.Sivaraman** of final year ECE Department has scored **84%** in TANCET

7 NPTEL

- ✓ **Divya** has successfully completed the course **"Introduction to Internet of Things"** with a consolidated score of **77%.**

- ✓ **M.Jeevitha** has successfully completed the course **"Introduction to Internet of Things"** with a consolidated score of **71%.**

'

✓ **Yukesh Kannan.G** has successfully completed the course **"Programming in Java"** with a consolidated score **55%.**


NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
YUKESH KANNAN G
for successfully completing the course
Programming in Java
with a consolidated score of 55 %
Online Assignments 24.35/25 | Proctored Exam 30.62/75
Total number of candidates certified in this course:11713
Jul-Oct 2023
(12 week course)
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur
Indian Institute of Technology Kharagpur
swayam
Roll No: NPTEL23CS74S739300536 To verify the certificate No. of credits recommended: 3 or 4

✓ **Navin kumar** has successfully completed the course **"Design and analysis of VLSI subsystems"** with a consolidated score of **69%.**


Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
NAVEENKUMAR S
for successfully completing the course
Design and Analysis of VLSI Subsystems
with a consolidated score of 69 %
Online Assignments 15.19/25 | Proctored Exam 53.57/75
Total number of candidates certified in this course: 287
Dr. Chandrashekar Ramanathan
Chairman
Professor and Dean (Academics), IIIT- Bangalore
Jan-Apr 2024
(12 week course)
Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE
swayam
Roll No: NPTEL24EE44S559300456 To verify the certificate No. of credits recommended: 3 or 4

✓ **Manirathinam,** has successfully completed the course **"Design and analysis of VLSI subsystems"** with a consolidated score of **46%.**


NPTEL Online Certification
(Funded by the MoE, Govt. of India)
This certificate is awarded to
MANIRATHINAM S
for successfully completing the course
Design and Analysis of VLSI Subsystems
with a consolidated score of 46 %
Online Assignments 15.19/25 | Proctored Exam 30.62/75
Total number of candidates certified in this course: 287
Dr. Chandrashekar Ramanathan
Chairman
Professor and Dean (Academics), IIIT- Bangalore
Jan-Apr 2024
(12 week course)
Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras
INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE
swayam
Roll No: NPTEL24EE44S659300398 To verify the certificate No. of credits recommended: 3 or 4

- ✓ **Nithish kumar** has successfully completed the course **"Design and analysis of VLSI subsystems"** with a consolidated score of **46%.**

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

NITHISH KUMAR P

for successfully completing the course

Design and Analysis of VLSI Subsystems

with a consolidated score of 46 %

Online Assignments	14.88/25	Proctored Exam	30.62/75

Total number of candidates certified in this course: 287

Dr. Chandrashekar Ramanathan
Chairman
Professor and Dean (Academics), IIIT- Bangalore

Jan-Apr 2024
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY BANGALORE

swayam

Roll No: NPTEL24EE44S559300293 To verify the certificate No. of credits recommended: 3 or 4

- ✓ **Bubalakannan** has successfully completed the course **"Embedded system design with ARM"** with a consolidated score of **58%.**

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

BUBALAKANNANR

for successfully completing the course

Embedded System Design with ARM

with a consolidated score of 58 %

Online Assignments	21.63/25	Proctored Exam	36/75

Total number of candidates certified in this course: 341

Jan-Mar 2024
(8 week course)

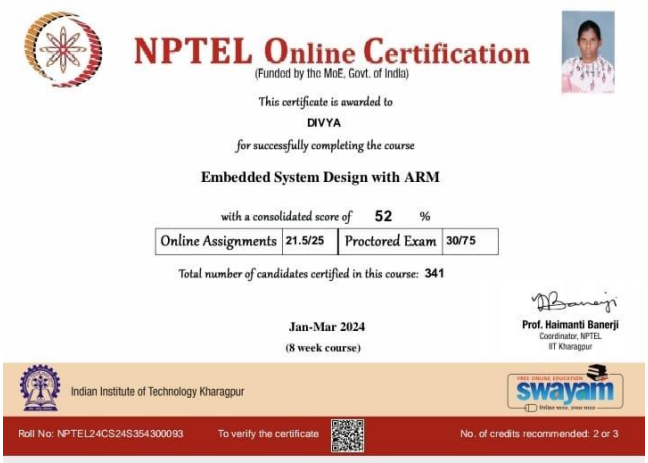
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS24S354300191 To verify the certificate No. of credits recommended: 2 or 3

✓ **Divya** has successfully completed the course **"Embedded system design with ARM"** with a consolidated score of **52%**.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

DIVYA

for successfully completing the course

Embedded System Design with ARM

with a consolidated score of 52 %

Online Assignments	21.5/25	Proctored Exam	30/75

Total number of candidates certified in this course: 341

Jan-Mar 2024

(8 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL

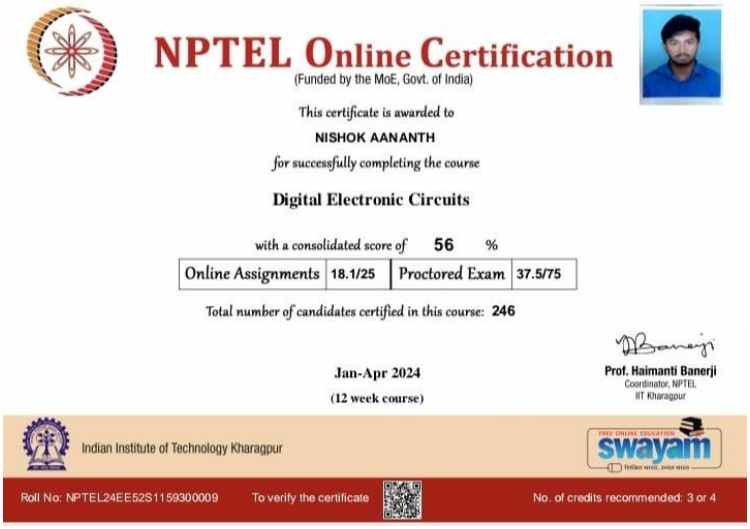
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS24S354300093 To verify the certificate No. of credits recommended: 2 or 3

✓ **Nishok Aananth** has successfully completed the course **"Digital Electronics Circuits"** with a consolidated score of **56%**.



NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

NISHOK AANANTH

for successfully completing the course

Digital Electronic Circuits

with a consolidated score of 56 %

Online Assignments	18.1/25	Proctored Exam	37.5/75

Total number of candidates certified in this course: 246

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL

IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24EE52S1159300009 To verify the certificate No. of credits recommended: 3 or 4

✓ **Gunasekar** has successfully completed the course **"Embedded system design with ARM"** with a consolidated score of **50%**.

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

GUNASEKAR M

for successfully completing the course

Digital Electronic Circuits

with a consolidated score of 50 %

Online Assignments	19.66/25	Proctored Exam	30/75

Total number of candidates certified in this course: 246

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24EE52S125930017O To verify the certificate No. of credits recommended: 3 or 4

✓ **Varni has** successfully completed the course **"Problem solving through programming in C"** with a consolidated score of **53%**.

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

VARNI S

for successfully completing the course

Problem Solving through Programming In C

with a consolidated score of 53 %

Online Assignments	23/25	Proctored Exam	30/75

Total number of candidates certified in this course: 2979

Jan-Apr 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS42S559300306 To verify the certificate No. of credits recommended: 3 or 4

8 KALAM AWARDS

- ✓ **Raghul, Naveen Kumar, Harish, BalaMurugan, Gowsalya**, **Abirami, Jeevitha, Abarna** received Kalam Award at Akshaya College Of Engineering.

9 AMD AI CONTEST

- ✓ **Raghul.B , Nishok Ananth.E, Ponthiruselvam** has Won in the "AMD Contest" for implement there idea's under there Project Tile "Revolutionizing Medical Image Analysis With AMD Generative AI GPU".

- ✓ **Sabareesan.S, Pravin Kumar.S, Arsath Ansari.M** has won in the "AMD Contest" for implement there idea's under there Project Tile "Game Enhancing with AMD Ryzen AI".

- ✓ **Saravanakumar.A, Piragadeesh.T.M, Navin.S** has won in the "AMD Contest" for implement there idea's under there Project Tile "Next –Gen Electric Scotter" with AMD Ryzen AI".

10 SKILL DEVELOPMENT TRAINING

Our ECE Final Year students attended the **MSME-Technology development conducted the training on "EMBEEDED SYSTEM"** From 21.02.2024 To 21.03.2024 one-month training section.

Harini.s, Arunprasath.B ,Navven.V, Shalini.s, Gayathri.R, Reethika.B, Shobana.A, Kamali.C, Mariyadhivya.M, Malathi.G, Nandhnini.S, Dhanuskarthick.D, Sivaraman.A.


एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192597

प्रमाण-पत्र

Certificate

This is to certify that

Mr. Sivaraman A

S/o Mr. Anbarasu R

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1240


एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192590

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Nandhini Sridhar

D/o Mr. Sridhar

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1233


एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192588

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Malathi G

D/o Mr. Govindan P

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1231


एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192589

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Mariya Dhivya

D/o Mr. Mariyasoosai Sekar

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1232

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192596

प्रमाण-पत्र
Certificate

This is to certify that

Ms. Shobana A

D/o Mr. Arumugam

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1239

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192583

प्रमाण-पत्र
Certificate

This is to certify that

Ms. B.Reethika

D/o Mr. R.Babu

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1226

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192562

प्रमाण-पत्र
Certificate

This is to certify that

Mr. Dhanushkarthick

S/o Mr. Durai

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1205

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192583

प्रमाण-पत्र
Certificate

This is to certify that

Ms. B.Reethika

D/o Mr. R.Babu

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1226

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192595

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Shalini S

D/o Mr. Subramanian S

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1238

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192591

प्रमाण-पत्र

Certificate

This is to certify that

Mr. Naveen V

S/o Mr. Varadharaj M

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1234

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192582

प्रमाण-पत्र

Certificate

This is to certify that

Mr. Arunprasath B

S/o Mr. Balakrishnan

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1225

एम.एस.एम.ई.- प्रौद्योगिकी विकास केन्द्र
MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC)
सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises
भारत सरकार की संस्था
Government of India Society
फाउन्ड्री नगर, आगरा–282 006 (उ.प्र.)
Foundry Nagar, Agra-282 006 (U.P.)

Reg. No : 192584

प्रमाण-पत्र

Certificate

This is to certify that

Ms. Harini S

D/o Mr. Seenivasan K

has successfully completed the training

on

EMBEDDED SYSTEM

from 21.02.2024 to 21.03.2024 (96 hrs.)

at MSME-TDC, EC-Coimbatore (TN)

DATE : April 6, 2024
PLACE : AGRA

(SACHIN RAJPAL)
PRINCIPAL DIRECTOR

No. PPDC/Trg./OSP/2024-25/1227

11 NIRAL THIRUVIZHA(Naan-Mudhalvan)

- ✓ Nandhini.S, Gayathri.P, Shalini.S **"GIS app for flood management" was selected in Naan-Mudhalvan-Niral thiruvizha in the year 2023-2024**

- ✓ Harish.K, Loganathan.P, Vignesh.J **"GIS - deep sea fishing App" was selected in Naan-Mudhalvan-Niral thiruvizha in the year 2023-2024**

OPEN DAY VISIT

Programme Name: Open Day Visit

Venue: Indian Institute of Science, Bangalore

Faculty Incharge: Dr G Sahaya Dennish Babu, AP/Physics

Date: 24.02.2024

No. of Participants : 22

- ✓ The Enrichment Committee of Chettinad Tech organized a one-day Open Day visit to the prestigious Indian Institute of Science (IISc), Bangalore, on February 24, 2024. Twenty-two students from the first year of BE and BTech, representing various departments such as CSE, ECE, AI and DS, and Mechanical, accompanied by two dedicated staff members, immersed themselves in this enriching experience.

- ✓ Throughout the day, esteemed faculty members, research scholars, and master students captivated our delegation with insightful presentations, unveiling the wide array of academic programs offered at IISc. Visionary researchers at IISc showcased their ongoing projects and revolutionary technologies, demonstrating ground breaking discoveries that push the boundaries of knowledge.

- ✓ This rendezvous with IISc on Open Day 2024 served as a catalyst for our budding engineers, igniting their passion for academic excellence, research ingenuity, and a steadfast commitment to propel our nation forward. Here's to a future brimming with innovation, driven by the aspirations of our young minds as they navigate towards transformative discoveries and societal impact.

PLACEMENTS

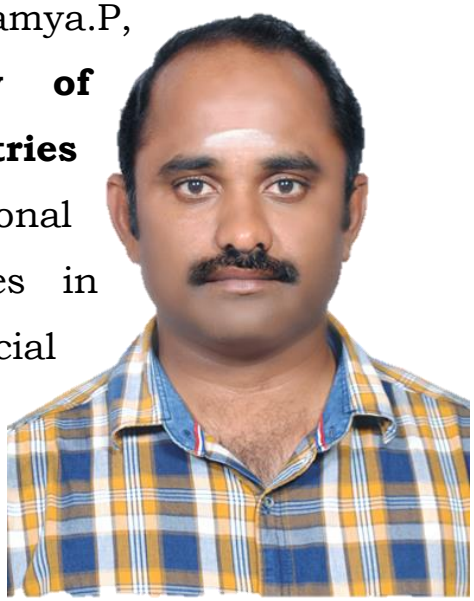
In this academic year our ECE Final year students secured placements in various companies' and received high offers. (2023-2024)

NAME OF THE COMPANY		NO.OF STUDENTS
	Zf Global Technology	40
	Pegatron Technology India Private Limited	33
	Mitsuba India Pvt Ltd	07
	Axis Global Group Of Automation Group Of Companies	15

	Simax Tech	01
	Indus Tower	01

FACULTY CONTRIBUTIONS

1 Dr. M.Kumar Ph.D (Associate Professor)



- ✓ **Kumar.M,** Gobinath.T, Kumar.S,Ramya.P, Anbarasu.L, Padmavathi.N **"Synergy of Robotics and IOT Monitoring in Industries using Deep Resnets"** 2023.International conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering Chennai,India2023.

- ✓ **Kumar.M,** Avinsh.G, Mahalle, Pravin Prakash Adivarekar virindra Jain,Davinder Kumar. **"Delay Analysis of Multiplexer Circuit Theory Using Turboelectric Nano generator in VLSI Design"**. ICTACT journal on Microelectronics Vol 9(4),PP 1700-1704,Jaunary 2024.

- ✓ **Kumar.M**, C.Udhaya Shankar,K.Hema Priya, M.Senthil Kumar, T.Gobinath, A.Sathishkumar **"Novel Proposed Work For Empirical Word Searching in cloud Environment",** International Journal on recent and Innovation Trends in computing and Communication Vol 12(1),PP.19-28 January 2024.

2 Mr. P.Selvan B.E, M.E
(Sr. Assistant Professor)

- ✓ **P. Selvan** presented in a faculty learning program on the **"Introduction to Internet of Things"**, where he achieved a commendable **73%** (July to October 2023).

- ✓ He attended Faculty learning Program for (**Industrial Internet of things industry 4.0)** under **Nan-Mudhalvan** course from (29.01.2024 to 02.02.2024).

3 Mr. Prabhakaran.M, M.E
(Assistant Professor)

- ✓ **Mr. M. Prabhakaran** attended **NPTEL** Course in the topic of **"Introduction to Wireless and cellular communication",** were they achieved a score 63% (July-October 2023).
- ✓ He attended Faculty learning Program for (**Internet of Things)** conducted by by **NIIT** Chennai course from (12.02.2024 to 16.02.2024).

- ✓ **M. Prabhakaran, "Sensory detector of hazardous gases in poultry farms"**IJCRT journal on,April 2024.

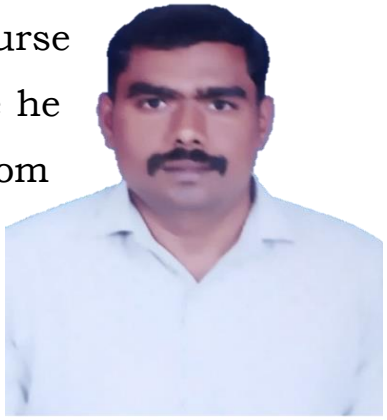
4 Ms. D.Ragavi, M.E. (Assistant Professor)

- ✓ **Ms. D. Ragavi** presented in a faculty learning program on the **"5G and Beyond"** for one week (05/02/2024-09/02/2024).
- ✓ She attended the **"ECE Lab Practices Using Multisim Live Online Simulation"** in a faculty learning program for one week (06/11/2023 to 10/11/2023) in NIIT**/Chandigarh**

5 Mrs. A. Karthikeyani, M.E. (Assistant Professor)

- ✓ **Mrs. A.Karthikeyani** presented in a faculty learning program on the **"5G and Beyond"** for one week (05/02/2024-09/02/2024).
- ✓ She attended the **ECE Lab Practices Using Multisim Live Online Simulation"** in a faculty learning program for one week (06/11/2023 to 10/11/2023) in **NIIT/Chandigarh.**

6 Mr. K. Satish Kumar M.E (Assistant Professor)



- ✓ **Mr. K. Satish Kumar** attended **NPTEL** Course in the topic of **"Image Processing",** where he achieved a score 48% in the Course from (July-October 2023).
- ✓ He attended Faculty learning Program for (**Simulation of Electronics)** conducted by by **IIT** Chennai course from (26.02.2024 to 01.03.2024).
- ✓ He attended Faculty learning Program for "To Write a research paper for Scopus Journal Using the emerging area of academics and research in the current situation and technologies"

7 Mrs. P. Nagarani sobana M.E. (Assistant Professor)

- ✓ **Mrs. P. Nagarani Sobana** attended **NPTEL** Course in the topic of **"Digital Circuits",** where she achieved a score 58% in the Course from (July-October 2023).
- ✓ She attended the **"VLSI & Nano Scale Design and Simulation"** for one week (18/12/2023 to 22/12/2023) in IIT **/ Bhagalpur.**
- ✓ She attended 30 days Short term course on **Embedded System Design and IoT** from 18th Jan to 16th Feb**.**

8 Ms. J. Jenisha B.E., M.E. (Assistant Professor)

- ✓ **Ms. J. Jenisha** attended the**" VLSI & Nano Scale Design and Simulation"** for one week (18/12/2023 to 22/12/2023) in **IIT / Bhagalpur.**
- ✓ She attended 30 days Short term course on **Embedded System Design and IoT** from 18th Jan to 16th Feb.

9 Dr. M. Prithiviraj Ph.D (Assistant Professor)

- ✓ **Dr.M.Prithiviraj** attended the **" VLSI & Nano Scale Design and Simulation"** for one week (18/12/2023 to 22/12/2023) in **IIT / Bhagalpur.**
- ✓ He attended faculty development programme on Naan Mudhalvan FDP on **"Internet of Things"** in BIT campus, Trichy.
- ✓ He attended 30 days' Short term course on **Embedded System Design and IoT** from 18th Jan to 16th Feb**.** IJARESM journal on, April 2024.

Faculty Editors

1. **P. Selvan, Sr.AP/ECE**
2. **A. Karthikeyani, AP/ECE**

Student Coordinators

1. **M. Megarnisha Begum III ECE**
2. **S. Varni III ECE**
3. **M. Arsath Ansari II ECE**
4. **S. Mathanraj II ECE**