

# DEPARTMENT OF ECE E-CHRONICA 2024 MAGAZINE



NH-67, Karur – Trichy Highway, Puliyur CF, Karur, Tamilnadu – 639114. https://chettinadtech.ac.in/index.php

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### **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 To accomplish this goal, we've organized capable individuals. 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 programs in various fields. workshops and The department is highly active in research work in the fields of broadband communications, VLSI Design, image processing etc. The students are provided adequate of signal processing, training in the field 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.

Department of

### VISION

 To provide the quality education in the field of Electronics and Communication Engineering which caters the needs of the society in line with the technological revolution

### MISSION

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

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- To provide the students with a strong foundation in the required sciences in order to pursue studies in Electronics and Communication Engineering
- To gain adequate knowledge to become good professional in electronics and communication engineering associated industries, higher education and research
- To develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves
- To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified
- To inculcate in the students a professional and ethical attitude and an ability to visualize the engineering issues in a broader social context

### 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 & Electromagnetics
- PSO3: Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems

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				3	
II'nd Year 1	ECE	III'rd Year E	CE	IV'th Year EC	E
<b>II <sup>'nd</sup> Year 1</b> Name	ECE CGPA	III'rd Year E Name	<b>CE</b> CGPA	IV'th Year EC Name	E CGPA
II' <sup>nd</sup> Year I Name Dharani.K	ECE CGPA 8.73	III'rd Year E Name Divya K	CE CGPA 8.58	IV'th Year EC Name Shobana.A	E CGPA 8.91
II' <sup>nd</sup> Year I Name Dharani.K Yuvashree.M	ECE CGPA 8.73 8.58	III' <sup>rd</sup> Year E Name Divya K Varni S	CE CGPA 8.58 8.36	IV'th Year EC Name Shobana.A Anusiya.M	E CGPA 8.91 8.79

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### **STUDENT'S FOLIO**

### **EXPLORING THE FUSION OF IoT AND 5G**

- 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 imachine-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, 4G, gradual transition from core network enhancement, data interoperability, and establishing cost-effective business models. These challenges involve optimising frequency bands, ensuring seamless upgrading migration, infrastructure. achieving **UE-network** core interoperability, and vising 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

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 <sup>2</sup> /s
Density of the connectivity	10 <sup>6</sup> devices/km <sup>2</sup>
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

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.

#### 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

- M.A.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, ewaste 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.

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### MINI PROJECT EXPO'24

A Mini project Expo was conducted at our Chettinad College on 6<sup>th</sup> 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 miniproject 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

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

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	Smart car parking
P.Poorva sri	Arduino UNO
H.Pooja	

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	Arduino Gas
S.P.Devasri	Sentinel:
A.Jeevakarunya	Safeguarding Against LPG Hazards
R.Veena	

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 userfriendly 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.

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### Automatic Sensor Model to detect NH3/H2S Gas Emissions

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

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 ra	ange for growing tomatoes
- 6.0 to 6.8.	
What is the optimal spi	acing for planting corn seeds
- 9 to 12 inches apart in	n rows spaced 30 to 36 inches apart
Message	Send
What is the ideal temperature rang - 60 to 80°F (15 to 27°C)	ge for growing strawberries
How do you prevent blossom end	rot in tomatoes
1 1	
- Maintain consistent soil moistur	re and calcium levels, avoid fluctuations in watering

### Reliable Gas and Oil Detection

<b>Batch Members</b>	Title of the Project
Arunprasath.B Dhanushkarthick.D	Reliable Gas and
Sabarianandan.T	On 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	Automated Poultry Farm
M.Megarnisha Begum	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.



### Lack of Awareness of Loan Schemes of DIC Office

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

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.

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### **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 • • • •

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Art by C. Ramya II Year





Art by M.Megarnisha Begum III Year

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### PHOTOGRAPHY

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



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

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### 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.

### 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.



### VALUE ADDED COURSE ON IOT SYSTEMS USING CISCO PACKET TRACER

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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, 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.



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### 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/CSE. 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.



#### VALUE ADDED COURSE ON VLSI DESIGN

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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 III<sup>rd</sup> 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 LECTURES**

GUEST LECTURE ON "ROLE OF BASIC SCIENCE IN ENGINEERING"

**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.



### GUEST LECTURE ON "NETWORKING CONCEPTS"

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.



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### **ALUMNI INTERACTION**

#### ALUMNI INTERACTION ON "WEB DEVELOPMENT"

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

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### 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 22<sup>nd</sup> 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.





### 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.



### 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.



#### 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.



### TECH HERZ'2K23

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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.



### **WORKSHOP**

### DIGITAL DESIGN WITH VERILOG HDL AND XILINX VIVADO

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.



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### STUDENT PEER LEARNING ON WEB DESIGNING

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Ever wondered about the magic behind the websites we visit every day? Meet Harish R, a 3rd-year ECE 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

### VYUHAA'24 – AN INTER DEPARTMENTAL CULTURAL FEST

- ✓ 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 3<sup>rd</sup> Year student Bubalakannan won the 2<sup>nd</sup> prize in solo dance.



✓ Sabarianandan from 4<sup>th</sup> Year won the 1<sup>st</sup> prize in Cooking without fire.







 $\checkmark$  Bubalakannan Team won the first prize in Mime.

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







- 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.



#### CONFERENCE & JOURNAL PAPERS

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- 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.Jenisha,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.
- M.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.

### PAPER PRESENTATIONS IN TECHNICAL SYMPOSIUM

- ✓ Abisekar.P, Saravanakumar.A have participated in National level technical Symposium, PINNACLE 2K24, Coimbatore Institution of Technology on 22<sup>nd</sup> 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 22<sup>nd</sup>, 2024.
- ✓ Dharani.K has participated in National level technical Symposium, TECH SPURTZ 2K24, Nandha College Of Technology,Erode on 22<sup>nd</sup> March.
- ✓ Preethi.C, Arsath Ansari.M have participated in Project Presentation, N.S.N.College of Engineering and Technology, Karur on March 22<sup>nd</sup>, 2024.

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

### COURSE ATTENDED

- ✓ Sabareesan.S completed course on Incredible Electronics, Advanced Electronics, Embedded System, Satellite Technology offered by Chitti on 26<sup>th</sup> March,2024.
- ✓ S.P.Devasri completed course on Introduction to Graphics Designing; of UI/UX, Photoshop on 2<sup>nd</sup> 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 Aananth E, Naveen Kumar S, Manirathinam S and Nithish Kumar P completed course on VLSI for Beginners by National Institute of Electronics and Information Technology, Calicut on March 2024.

#### WORKSHOPS

5

- ✓ Abisekar.P and A.Saravanakumar attended Workshop on topic "Vehicle AD-HOC Networks" at Coimbatore Institute of Technology, on 22<sup>nd</sup> March, 2024.
- ✓ K.Dharani, A.Jeevakarunya, S.P.Devasri, and A.Alagumeena, attended workshop on "Drone Technology" at SNS College of Technology on 5<sup>th</sup> 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 4<sup>th</sup> 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 8<sup>th</sup> March 2024.
- ✓ Ramya.C, Neha.N, Moshika.S, Kaviya.E, Preethi.C attended workshop on "Ethical Hacking Workshop" at Kongu Engineering College (Autonomous) on 15<sup>th</sup>March 2024.
- ✓ K.Janarthanan attended Workshop on "Bash Bliss" at PSG institute of technology on 15<sup>th</sup> and 16<sup>th</sup> March2024

### TECHNICAL EVENTS

6

- ✓ Gayathri T, Divyadharshini N, Varni S, Lavanya M 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 P, Manirathinam S, Bubalakannan R** 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 R 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 22<sup>nd</sup> March.
- ✓ Dharani.K has participated in Connexion at National level technical Symposium, TECH SPURTZ 2K24, Nandha College Of Technology,Erode on 22<sup>nd</sup> 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 4<sup>th</sup> and 5<sup>th</sup>2024.

### TANCET

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

### NPTEL

8

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

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Indian Instit	ute of Technology Kharagpur			S	ONLINE TEULFATION S Wayam Diffee Mits, Sense Hots
Roll No: NPTEL23CS8	3S739300288 To verify the c	ertificate		No. of credits re	commended: 3 or 4

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

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Indian Institute of Technology Kharagpur				SWayam The second and the second seco
Roll No: NPTEL23CS83S739300255 To verify the c	ertificate		No. of credit	s recommended: 3 or 4

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

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YL	KESH KA	NNAN G		
for succes	sfully comp	leting the course		
Prog	rammin;	g in Java		
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				Banen
	Jul-Oct 2	2023		Prof. Haimanti Banerji
	(12 week c	ourse)		Coordinator, NPTEL IIT Kharagpur
Indian Institute of Technology Kharagpur				
Roll No: NPTEL23CS74S739300536 To verify the c	ertificate		No. of cre	dits recommended: 3 or 4

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



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

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R. Onch. Dr. Chandrastiekar Ramanathan Chairman Professor and Dean (Academics), NT- Banga	lore (	Jan-Apr 12 week co	2024 nurse)		Prof. Andrew Thangaraj NPTEL, Coordinator IT Madras
	NAL INSTITUTE ATION TECHNOLOGY BANG	ALORE			THE OPLINE TERILATION SEA
Roll No: NPTEL24EE44S65930	00398 To verify the cert	ificate		No. of cre	dits recommended: 3 or 4

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

(*) NP	TEL C	onlin ed by the Mo	E, Govt. of India)	icatio	on Sec
	This	certificate is	awarded to		
	N	THISH KU	MAR P		
	for succes	sfully comp	leting the course		
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R. Orchandrashekar Ramanathan Chairman Professor and Dean (Academics), IIIT- Bangaiore		Jan-Apr (12 week c	2024 ourse)		Prof. Andrew Thangaraj NPTEL. Coordinator IIT Madras
international of informatio	. INSTITUTE N TECHNOLOGY BAN	GALORE			SWAYAM
Roll No: NPTEL24EE44S55930029	3 To verify the c	ertificate		No. of cre	dits recommended: 3 or 4

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

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for su	cessfully comp	oleting the course		
Embeddeo with a cor	l System D	esign with ARM e of 58 %		
Online Assignmen	ts 21.63/25	Proctored Exam	36/75	
Total number of ca	ndidates certij Jan-Mai (8 week co	fied in this course: 34 • 2024 murse)	1	Prof. Haimanti Banerji Coordinator, NPTEL UIT Kharagpur

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

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	DIVY	A			
for succes	sfully comp	leting the course			
Embedded S with a consol	ystem D	esign with ARM e of 52 %			
Online Assignments	21.5/25	Proctored Exam	30/75		
Total number of candidates certified in this course: <b>341</b>					
	Jan-Mar (8 week co	• 2024 urse)		Prof. Haimanti Banerji Cosrdinator, NPTEL ITT Kharagpur	
Indian Institute of Technology Kharagpur					
Roll No: NPTEL24CS24S354300093 To verify the c	ertificate		No. of crea	lits recommended: 2 or 3	

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



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

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jor succe	ny comp	in the second		
Digital	Electron	ic Circuits		
with a consol	lidated score	of <b>50</b> %		
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Total number of cand	idates certif	ied in this course: 24	3	
				Banen
	Jan-Apr	2024		Prof. Haimanti Banerji
	(12 week c	ourse)		IT Kharagpur
				3

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

(Funde (Funde This Der Succes Problem Solving with a correct	onlin ed by the N certificate VARN sfully com throug	ne Certif loE, Govt. of India) is awarded to II S pleting the course h Programming I mod 53 %	icatio	on 🧕	
Online Assignments	23/25	Proctored Exam	30/75		
Total number of candidates certified in this course: 2979					
Indian Institute of Technology Kharagpur				THE ONLINE EXPERIMENT	
Roll No: NPTEL24CS42S559300306 To verify the ce	ertificate		No. of cre	dits recommended: 3 or 4	

### 9 KALAM AWARDS

Raghul B, Naveen Kumar S, Harish R, BalaMurugan K, Gowsalya B,
 Abirami M, Jeevitha, Abarna K received Kalam Award at Akshaya
 College of Engineering.

### 10 AMD AI CONTEST

- ✓ Raghul B, Nishok Ananth E, Ponthiruselvam K 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".

### 11 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 ,Naveen.V, Shalini.S, Gayathri.R, Reethika.B, Shobana.A, Kamali.C, Mariyadhivya.M, Malathi.G, Nandhnini.S, Dhanuskarthick.D, Sivaraman.A.









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### 12 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

### 13 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**

We are proud to announce that our final-year ECE students have secured placements in various esteemed companies. Their success reflects the department's commitment to excellence in technical education and career development.

NAME OF T	NO. OF STUDENTS	
Æ	ZF Global Technology	13
PEGATRON	Pegatron Technology India Pvt Ltd	25
<b>AXIS</b> <sup>®</sup> global automation	Axis Global Automation Group of Companies	07
TECHNOLOGICS	Technologics Global Private Ltd	02
SiMaxTech Silicon Innovation at Max	SiMax Tech Private Ltd	01
MITSUBA Sical India Private Limited	Mitsuba Sical India Private Ltd	03

### **FACULTY CONTRIBUTIONS**

### Dr. M.Kumar <u>Ph.D</u>

- 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

- ✓ 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).

#### Mr.M.Prabhakaran

- ✓ 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

- ✓ 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

- ✓ 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

- ✓ 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"

### Mrs.P.Nagarani sobana

- ✓ 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 18<sup>th</sup> Jan to 16<sup>th</sup> Feb.

### Ms.J.Jenisha

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- 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 18<sup>th</sup> Jan to 16<sup>th</sup> Feb.

### Dr.M.Prithiviraj

- ✓ 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 18<sup>th</sup> Jan to 16<sup>th</sup> Feb. IJARESM journal on, April 2024.

Thank you!

### **Editorial Board**

### **Faculty Members**

- 1. Mr.P.Selvan, ASP/ECE
- 2. Mrs.A.Karthikeyani, AP/ECE

### **Student Members**

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