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

DEPARTMENT OF ECE

E-CHRONICA 2022

MAGAZINE

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

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

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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 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

ECE TOPPER'S - NOV-DEC 2023

IInd Year ECE		IIIrd Year ECE		IVth Year ECE	
Name	**CGPA**	**Name**	**CGPA**	**Name**	**CGPA**
C. Kamali	**9.10**	R. Swetha	**9.35**	M. Vijayalakshmi	**8.62**
M. Mariya Dhivya	**8.80**	M. Rasika	**9.31**	K. Monika	**8.62**
M. Santhosh Kumar	**8.33**	D. Emilin Pearl Sharal	**7.91**	S. N. Valliammai	**8.37**

STUDENT'S FOLIO

Future-Based AI and Machine Learning (AIML)

- Mr. Hariharan from 3rd year ECE

ABSTRACT:

Artificial Intelligence (AI) and Machine Learning (ML) are at the forefront of technological evolution, driving automation, decision-making, and problem-solving across industries. From autonomous systems and smart healthcare to cybersecurity and space exploration, AI is reshaping the way humans interact with technology. The integration of AI with quantum computing, neuromorphic processors, and edge computing further enhances its potential. However, these advancements also raise ethical, security, and employment concerns. This paper explores the future scope of AI and ML, their merits and demerits, long-term goals, and their impact on society.

INTRODUCTION:

The rapid advancement of AI and ML has enabled machines to learn, adapt, and make decisions with minimal human intervention. With breakthroughs in deep learning, neural networks, and data-driven models, AI is becoming a key driver of innovation. Industries such as healthcare, defense, finance, and manufacturing leverage AI for automation, efficiency, and predictive analysis. However, with great potential comes challenges like ethical AI development, data privacy, and algorithmic biases. Understanding AI's future requires evaluating its benefits, drawbacks, and long-term objectives in ensuring sustainable technological growth.

Merits of AI and Machine Learning

AI and ML offer numerous advantages across different sectors:

Increased Efficiency & Automation:

- AI-driven systems automate repetitive tasks, reducing human effort.

- Industries benefit from predictive maintenance, workflow optimization, and robotic process automation.

Enhanced Decision-Making:

- AI models analyse large datasets to extract insights and improve decision-making.AI-powered cybersecurity helps detect and prevent cyber threats in real time.

Healthcare Revolution:

- AI aids in early disease detection, drug discovery, and robotic-assisted surgeries.
- Personalized treatment plans based on AI-driven medical data analysis.

Smart Cities & IoT Integration:

- AI-based traffic management and energy-efficient smart grids enhance urban living.
- Real-time monitoring improves public safety and emergency response systems.

Advancements in defence & Security:

- AI-powered autonomous surveillance, missile defence systems, and unmanned combat vehicles strengthen national security.
- AI-driven predictive threat detection enhances cybersecurity resilience.

Demerits of AI and Machine Learning

Despite its advantages, AI comes with challenges and risks:

Job Displacement & Economic Impact:

- Automation replaces human jobs, especially in repetitive task-oriented industries.
- The digital divide increases as AI adoption varies across different regions.

Ethical Concerns & Bias:

- AI models may exhibit biases based on training data, leading to unfair decision-making.
- Privacy concerns arise due to data collection and AI-driven surveillance.

Security Threats & AI Misuse:

- AI-powered cyberattacks, deepfakes, and misinformation campaigns pose security risks.
- Autonomous AI in warfare raises concerns about ethical military applications.

High Costs & Computational Power:

- AI development requires high computational resources, increasing infrastructure costs.
- Quantum AI and deep learning models demand vast energy consumption.

FUTURE GOALS OF AI AND MACHINE LEARNING

To ensure responsible AI growth, the following objectives should be pursued:

Ethical AI Development:

- Implementing explainable AI (XAI) to make decisions more transparent.
- Establishing global AI regulations for data privacy and security.

Human-AI Collaboration:

- Developing AI systems that augment human skills rather than replace them.
- Encouraging AI applications in creative fields like art, music, and storytelling.

Sustainable AI Infrastructure:

- Advancing energy-efficient AI algorithms to reduce carbon footprints.
- Promoting decentralized AI systems using edge computing and federated learning.

AI for Global Challenges:

- AI-driven climate modeling for environmental sustainability.
- AI-powered solutions for disease outbreak prediction and disaster management.

CONCLUSION

AI and ML are undeniably shaping the future, revolutionizing industries and human interaction with technology. While AI enhances efficiency, decision-making, and automation, it also presents challenges in ethics, security, and job displacement. The focus should be on responsible AI development, ensuring that technological advancements align with societal needs.

MINI PROJECT EXPO'21 – A SHOWCASE OF INNOVATION

A Mini Project Expo was conducted at Chettinad College of Engineering and Technology on November 18, 2021. Our Electronics and Communication Engineering students showcased their innovative ideas and demonstrated creative projects in their respective domains. Notably, our First-Year and Final-Year students excelled in the competition, winning cash prizes for their outstanding projects. The event provided an excellent platform for students to explore cutting-edge research within the college and transform their ideas into working prototypes.

The Mini Project Exhibition featured an impressive array of innovative and practical projects, highlighting the students' technical skills and creativity.

The expo not only fostered hands-on learning but also encouraged students to think critically and develop solutions to real-world challenges. The event was a grand success, inspiring students and faculty alike with the display of talent, hard work, and dedication in the field of Electronics and Communication Engineering.

Best project winners of ECE Department

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

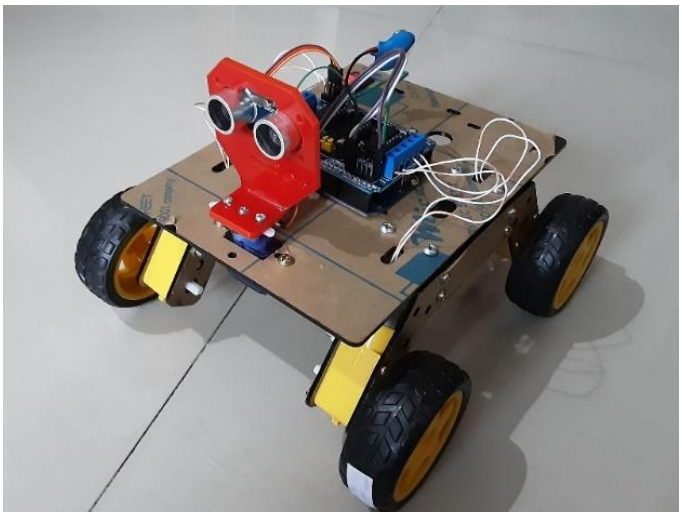
Obstacle Detection Robotic Car Using Arduino

Batch Members	Title of the Project
K.Matheshraj S.Vinoth J.Syed Furqaan	Obstacle detection Robotic using Arduino

Abstract

This project presents an obstacle detection robotic system using an Arduino microcontroller, designed for autonomous navigation in unknown environments. The robot is equipped with ultrasonic sensors to detect obstacles in its path and avoid collisions by adjusting its direction accordingly. The system consists of an Arduino Uno, ultrasonic sensor (HC-SR04), motor driver (L298N), and DC motors for movement. When an obstacle is detected within a predefined distance, the Arduino processes the sensor data and controls the motors to change the robot's direction. This simple yet effective system can be used in applications such as autonomous vehicles, warehouse automation, and search-and-rescue operations. The design is cost-effective, easy to implement, and serves as an excellent foundation for learning embedded systems and robotics.

Prototype



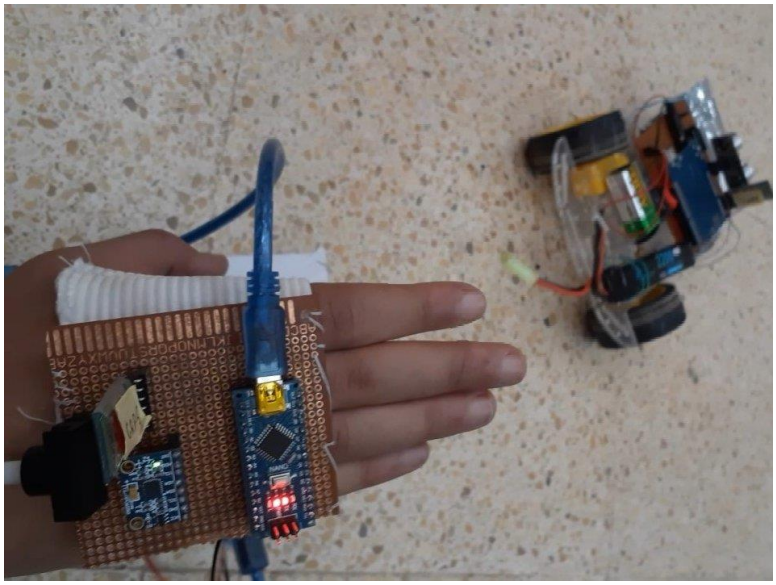
Gesture Control Robot

Batch Members	Title of the Project
S.Sanjay M.Muhilan R.Sambathkumar G.Elangovan	Gesture Control Robot

Abstract

This project focuses on developing a gesture-controlled robot that responds to hand movements for navigation. The system uses an Arduino Uno and a gyroscope-accelerometer sensor (MPU6050) to capture hand gestures. The sensor data is processed and transmitted wirelessly via Bluetooth (HC-05 module) to the robot, which then moves in the corresponding direction using DC motors and an L298N motor driver. This hands-free control mechanism makes the robot ideal for assistive technology, remote navigation, and industrial automation. The project is simple, cost-effective, and serves as a great introduction to wireless communication and embedded systems in robotics.

Prototype



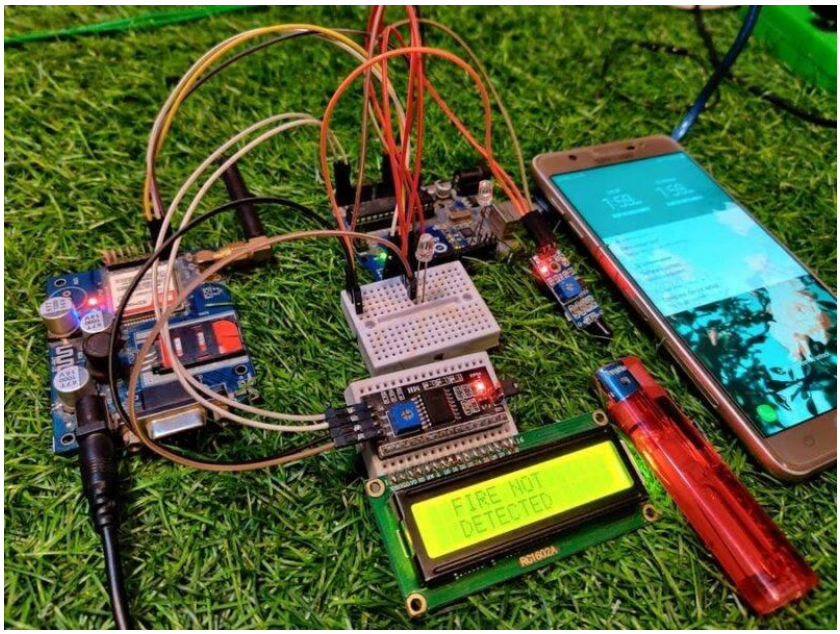
Forest Fire Detection Using IR and GSM Module

Batch Members	Title of the Project
A.Kavin M.Hariharan R.Anish K.Sunil Prasad	Forest Fire Detection Using IR and GSM Module

Abstract

This project aims to develop an early forest fire detection system using an infrared (IR) sensor and GSM module for real-time alerts. The system is built on an Arduino Uno, which continuously monitors temperature and infrared radiation levels. If abnormal heat or fire is detected, the Arduino triggers an alert via SMS using the GSM module (SIM800L) to notify forest authorities. Additionally, a buzzer or LED indicator can provide local alerts. This system enables early detection and rapid response, helping to prevent the spread of forest fires. It is cost-effective, low-power, and scalable, making it suitable for remote forest monitoring and disaster management applications.

Prototype



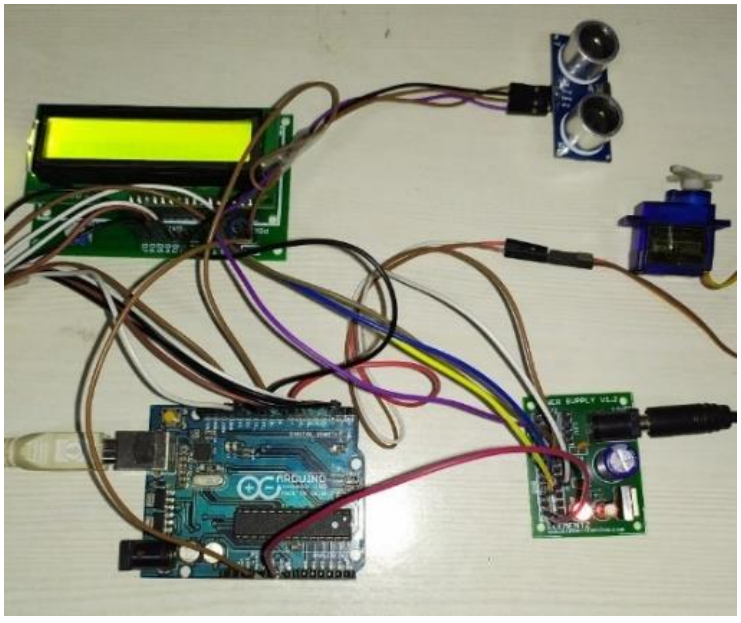
Portable Radar Using Arduino

Batch Members	Title of the Project
K.Kalaimagal A.Lavanya M.Ragapriya S.Sneka	Portable Radar Using Arduino

Abstract

This project focuses on developing a portable radar system using an Arduino Uno, ultrasonic sensor (HC-SR04), and a servo motor to scan the surroundings for obstacles. The system works by rotating the ultrasonic sensor using the servo motor and measuring the distance of detected objects. The data is processed by Arduino and visualized on a computer using Processing IDE or an LCD display to represent objects in a radar-like format. This low-cost and compact radar system can be used for security surveillance, obstacle detection in robotics, and terrain mapping. It provides a simple yet effective way to understand radar principles and sensor-based automation.

Prototype



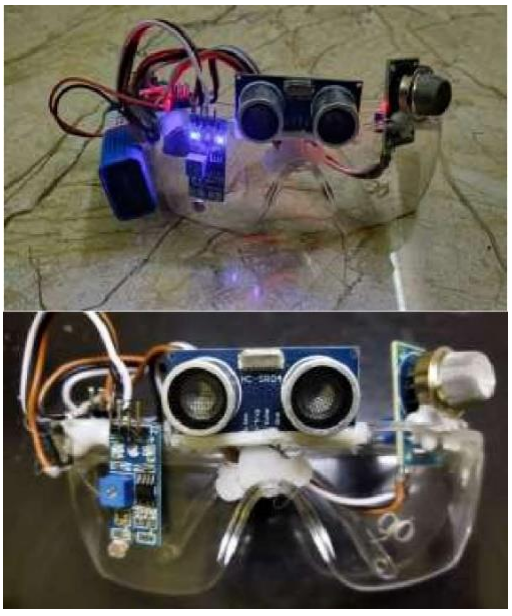
Accident Prevention Using Smart Glass Sensors

Batch Members	Title of the Project
B.ArunPrasath D.Dhanushkarthick R.Sudhan S.Sakthi	Accident Prevention Using Smart Glass Sensors

Abstract

This project aims to develop a smart glass-based accident-avoidance system using embedded sensors to enhance driver safety. The smart glass is equipped with ultrasonic sensors, an accelerometer (MPU6050), and an IR sensor to detect obstacles, driver drowsiness, and blind spots. The system processes real-time data using an Arduino or ESP32, providing alerts through a buzzer, LED, or voice notification. If an obstacle is detected in close proximity or drowsiness is sensed, the system alerts the user immediately, reducing the risk of accidents. This innovation can be used for driver assistance, visually impaired navigation, and industrial safety applications, making it a cost-effective and portable safety solution.

Prototype



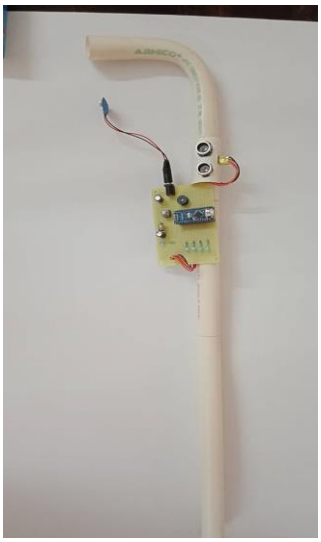
Accidental Avoidance Ultrasonic Sensor-Based Walking Aid for Blind People

Batch Members	Title of the Project
M.Anusiya R.Buviya M.Mariyadhivya M.Deva Dharshini	Ultrasonic Sensor-Based Walking Aid for Blind People

Abstract

This project focuses on developing an ultrasonic-based smart assistance system for visually impaired individuals to navigate safely. The system consists of an Arduino Uno, ultrasonic sensors (HC-SR04), and a buzzer or vibration motor to detect nearby obstacles and provide real-time feedback. When an obstacle is detected within a predefined range, the system alerts the user through vibrations or audio signals, helping them avoid collisions. This portable and cost-effective solution enhances mobility, independence, and safety for visually impaired individuals. It can be integrated into smart walking sticks, wearable devices, or smart glasses, making it a practical assistive technology.

Prototype



ART WORK

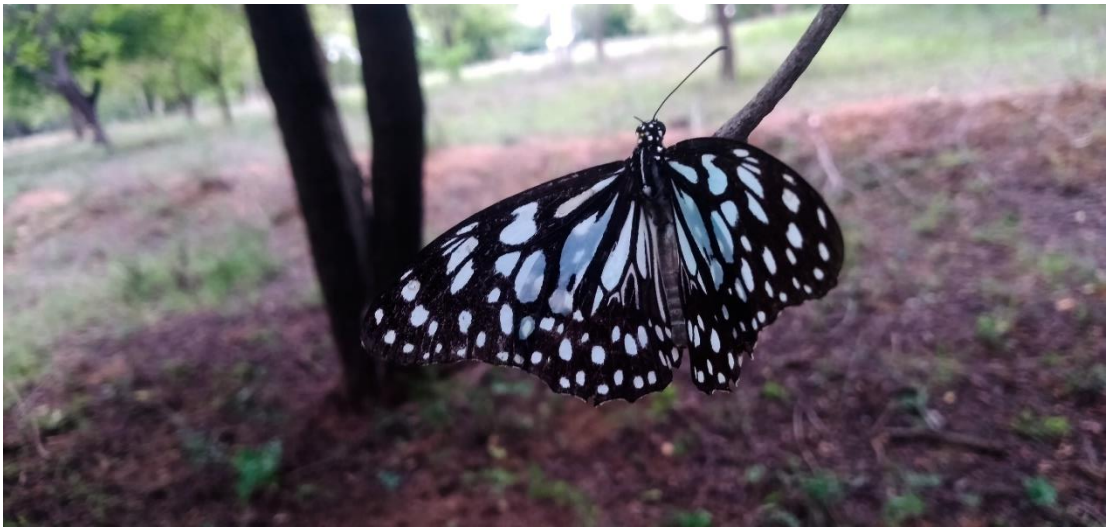
- ✓ Our ECE students D. Emiln Pearl Sharal and S. Poovizhi from III Year have a talent for artwork.

Art by: D. Emiln Pearl Sharal

Art by: S. Poovizhi

- ✓ Our ECE students S. SanthoshKumar and K. Vijay from IV Year have a talent for Photography. Natural scenarios can provide such beautiful subjects for photography.

Photography by: S. SanthoshKumar



Photography by: K. Vijay

VALUE ADDED COURSES

Our department organized four value-added courses that significantly benefited our students by enhancing their knowledge beyond the regular curriculum and equipping them with valuable technical skills. These courses provided students with hands-on experience in various domains, including PCB Design, Electronic Circuit Implementation using Multisim, LabVIEW, Xilinx, and MATLAB, among others.

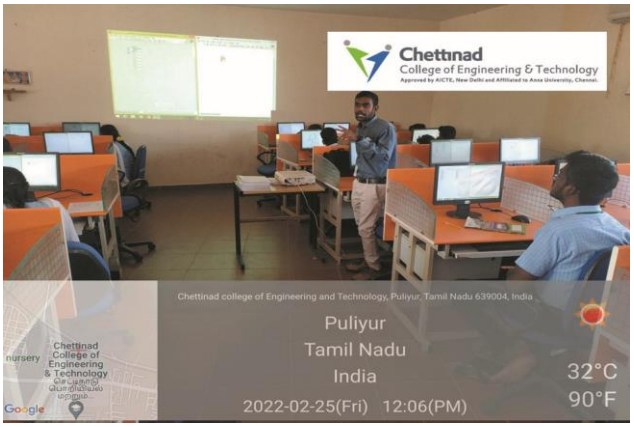
By participating in these courses, students had the opportunity to develop multiple skill sets, strengthening their academic foundation and preparing them for future professional challenges. These value-added programs have proven to be instrumental in their academic growth and career development.

1 PCB DESIGN AND IMPLEMENTATION OF ELECTRONIC CIRCUITS USING MULTISIM

The Department of Electronics and Communication Engineering organized a value-added course on "PCB Design and Implementation of Electronic Circuits using Multisim" for II-year ECE students from 23.02.2022. This course provided hands-on training in designing Printed Circuit Boards (PCBs) and simulating electronic circuits using Multisim simulation software. The program enabled students to gain practical experience, enhancing their technical skills and understanding of circuit design.

2 LABVIEW

The Department of Electronics and Communication Engineering organized a value-added course on LABVIEW for III-year ECE students from February 23, 2022, to March 2, 2022. The sessions were conducted by Mr. G. Nagaraj from Vi Solutions, who provided valuable insights into creating a powertrain model for electric vehicles. This course enhanced students' understanding of LABVIEW and its applications in real-world engineering solutions, equipping them with essential technical skills.



3 XILINX & MATLAB

A value-added course on "Xilinx and MATLAB" was conducted for IV-year ECE students from February 24, 2022, to March 1, 2022. The course covered fundamental concepts of combinational circuits using logic gates, encoder and decoder design, and the basics of MATLAB, including MATLAB compilation. This hands-on training enhanced students' understanding of digital design and computational analysis, equipping them with essential skills for their academic and professional growth.

WEBINARS

1 5G-RF CHALLENGES AND SOLUTIONS

On behalf of the Enrichment Committee and the Department of Electronics and Communication Engineering, a webinar on "5G-RF Challenges and Solutions" was organized by Dr. B. Deepa, ASP/ECE, on May 6, 2022.

The session was conducted by Dr. T. Gunasekaran, Program Director – Electronics & Communication Engineering, Electrical and Electronics Engineering Department, University of Technology and Applied Sciences-HCT, Muscat, Sultanate of Oman. He provided valuable insights into the evolution of 5G, the unified 5G design for connecting the massive Internet of Things (IoT), and the theoretical performance and practical solutions of massive MIMO for 5G. Additionally, he discussed various platforms used for antenna design at different frequencies.

The webinar witnessed enthusiastic participation from faculty members of the ECE department and II, III, and IV-year ECE students, making it an enriching and informative session.

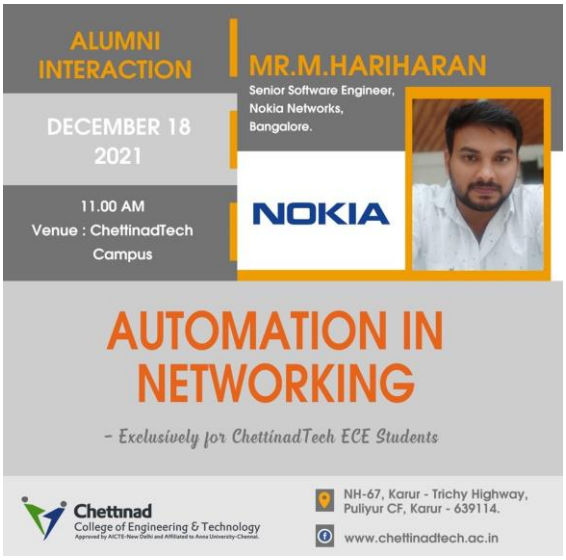
2 INSIGHTS INTO SIGNAL PROCESSING

A webinar on "Insights into Signal Processing" was organized on September 23, 2021. Dr. B. Jai Shankar, B.E., M.E., Ph.D., Associate Professor, KPR Institute of Engineering and Technology, delivered the session, providing valuable insights into various transforms in Signal Processing and its applications in the Internet of Things (IoT).

The webinar offered participants a deeper understanding of advanced signal processing techniques and their significance in modern technological applications.

ALUMNI INTERACTION

1 AUTOMATION IN NETWORKING



An alumni interaction session was conducted on December 18, 2021, for the Electronics and Communication Engineering students. The session was delivered by Mr. M. Hariharan, Senior Software Engineer, Nokia Networks, Bangalore, on the topic "Automation in Networking."

During the session, he shared his industry experience in networking and provided valuable insights into key concepts such as routers, switches, firewall policy management, network monitoring and troubleshooting, configuration drift, and security compliance. His expertise and real-world examples enriched students' understanding of automation in networking, making the session highly informative and engaging.

2 MICROSOFT POWER PLATFORM

The Chitchat with Alumna session on *"Microsoft Power Platform"* was organized for II, III and IV year ECE students on April 23, 2022**.** Ms. Aishwarya Nageshwaran, an esteemed alumna, shared her experiences and insights on Microsoft Power Platform and its key components. During the session, she provided valuable knowledge about Power Apps, Power Automate, Power BI, and Power Virtual Agents, highlighting their applications in automating workflows and enhancing productivity. She also discussed industry trends, career opportunities, and the skills required to excel in this domain. The interactive session allowed students to engage with her, seek guidance, and gain a deeper understanding of real-world applications of the platform.

INDUSTRIAL VISIT

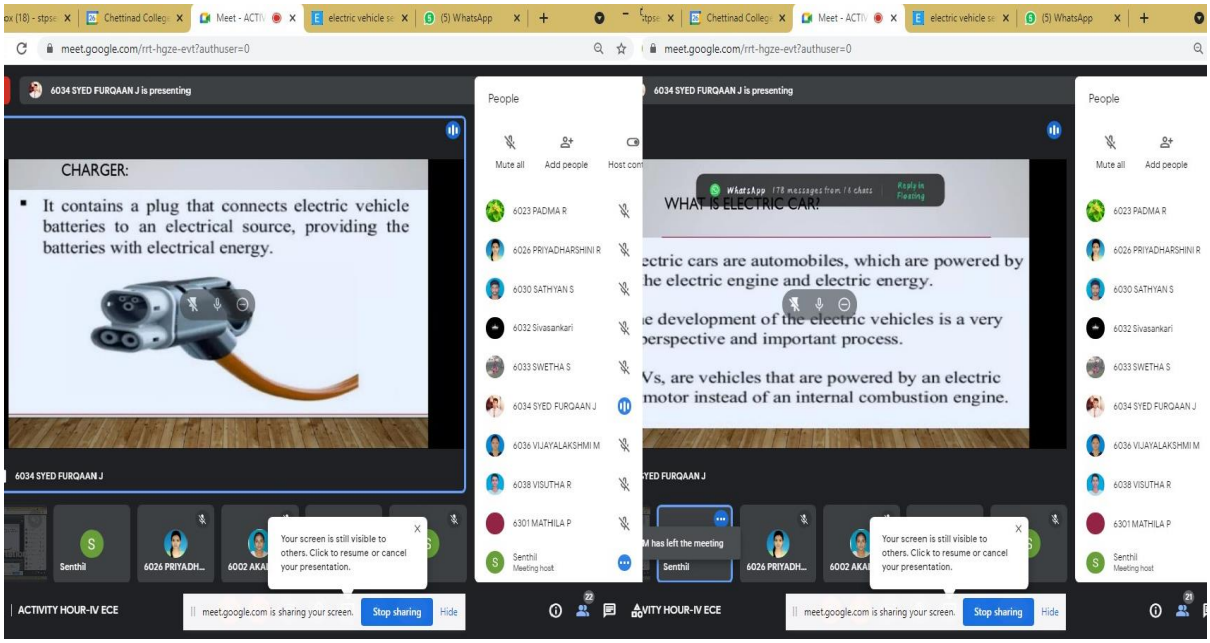
On March 25th and 26th, 2022, the II, III, and final year students of the ECE department undertook an industrial visit to the Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram, and the Malanad Service Co-operative Bank Ltd. (MASCO) Tea Factory. A total of 111 students and 4 faculty members participated in this enriching visit.

At VSSC, students explored the Space Museum, where they gained insights into various ISRO programmes, including the upcoming Gaganyaan mission. They learned about satellite functions, components of satellite launch vehicles, and witnessed a short film that showcased ISRO's key functions and projects. The visit to the MASCO Tea Factory provided the students with a practical understanding of the tea manufacturing process, offering a valuable industrial perspective beyond the classroom.

TECHNICAL ACTIVITIES

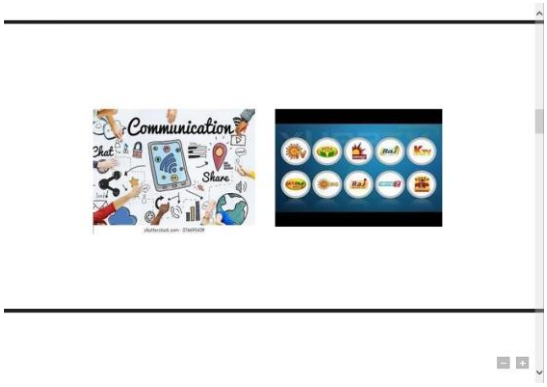
1 PRESENTATION ON E-VEHICLE

A Technical activity titled “Presentation on E-Vehicles” was organized for IV year ECE students on August 26, 2021. The session provided students with valuable insights into the challenges faced in marketing electric vehicles (EVs) and the strategies adopted by Tesla in the EV industry. Through this activity, students gained a deeper understanding of market trends, technological advancements, and innovative methodologies used in the development and promotion of electric vehicles.



2 4-PICTURE 1-WORD

A Technical activity titled *“4-Picture 1-Word”* was organized for IV year ECE students on September 2, 2021, to foster creativity and critical thinking. The event saw enthusiastic participation from students, who actively engaged in solving visual puzzles by identifying the common theme among four given images. This activity not only enhanced their problem-solving skills but also encouraged innovative thinking and teamwork.



3 TECHNICAL PUZZLE

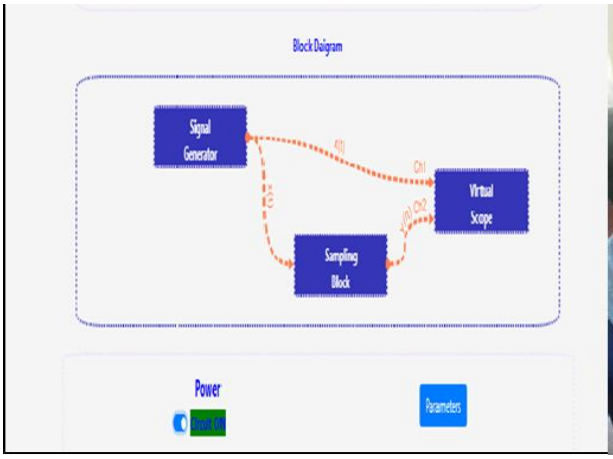
A Technical activity titled *"Technical Puzzle"* was conducted for IV year ECE students on September 15, 2021, to help them recall and reinforce technical terms and concepts. The event witnessed active participation from students, who engaged in solving thought-provoking puzzles designed to test their technical knowledge and analytical skills. This interactive session provided a fun and effective way to enhance their understanding of core engineering concepts.

4 KNOW YOUR COMPANIES

An activity titled *"Know Your Companies"* was conducted for IV year students on September 22, 2021. This session helped students differentiate between core and IT-related companies, enabling them to make informed career choices while pursuing their studies. Through this activity, students gained valuable insights into industry domains, job roles, and required skill sets, helping them align their career aspirations with the right opportunities.

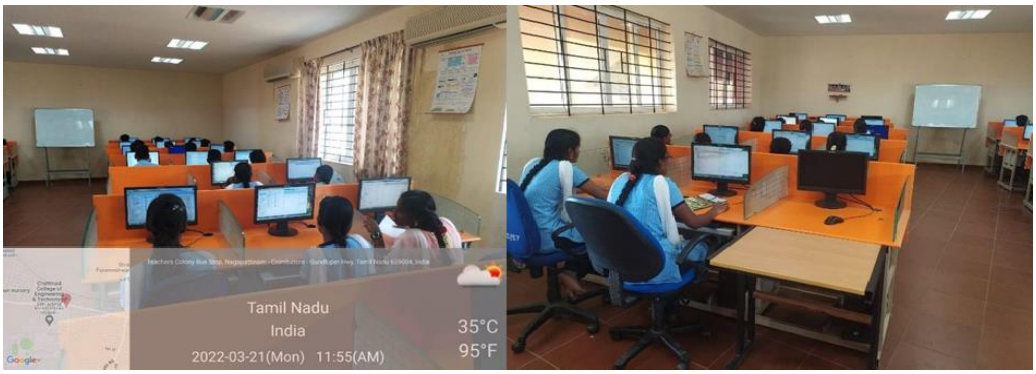
5 SIGNAL SAMPLING AND RECONSTRUCTION

A Technical activity titled *"Signal Sampling and Reconstruction"* was conducted for II-year ECE students on March 22, 2022. This activity enabled students to explore the process of converting analog signals into digital signals using digital transmission systems. It provided hands-on experience and a deeper understanding of sampling, quantization, and reconstruction techniques, which are fundamental in modern communication and signal processing.



6 CODE WITH MATLAB

A Technical activity titled *"Code with MATLAB"* was organized for IV year students on March 21, 2022. This session provided students with valuable insights into block diagrams, system modeling, and prototyping using specified blocks in MATLAB. Through hands-on learning, participants gained practical experience in simulation and implementation, enhancing their understanding of engineering system design and analysis.

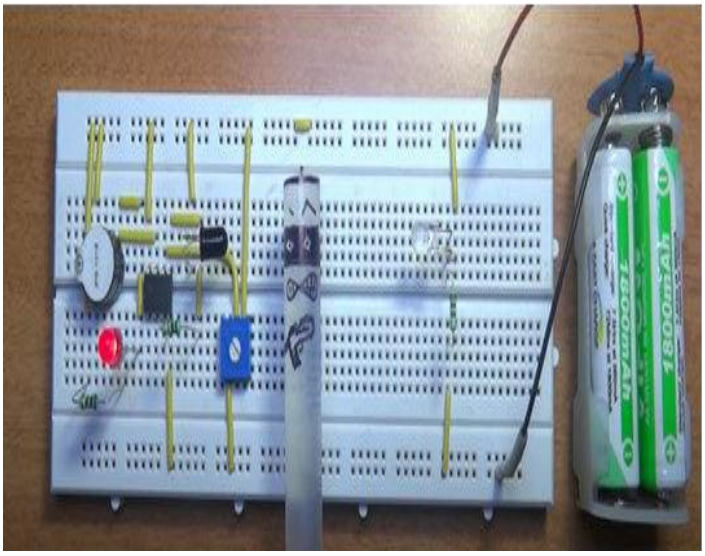


7 ELEMENT CONNECTION

I Year ECE students showcased their understanding of the Periodic Table by presenting their prepared models and explanations. This activity enhanced their conceptual knowledge of elements, their properties, and classifications, fostering interactive learning and scientific curiosity.

8 DESIGN OF INVISIBLE BURGLAR ALARM

A Technical activity titled *"Design of Invisible Burglar Alarm"* was conducted for II year ECE students on May 9, 2022**.** This activity helped students understand the working principles of burglar alarm systems**,** including sensor integration, circuit design, and intrusion detection mechanisms. The session provided hands-on experience in developing security solutions, enhancing their practical knowledge of electronic surveillance systems.



STUDENT ACHIEVEMENTS AND PARTICIPATIONS

1 PAPER PRESENTATIONS

- Matheshraj.K, Vinoth.S, Syed Furqaan.J of IV ECE presented a paper on "Emerging Trends in Science and Technology" at Sree Sakthi Engineering College from 27.05.2022 to 28.05.2022.
- Sambathkumar.R, Sanjay.S, Elangovan.G, Muhilan.M of IV ECE presented a paper on "Face Biometric Authentication for ATM Using Deep Learning" at Jai Shriram Engineering College on 20.05.2022.

- Sathyan.S, Karthikeyan.C, Venugopal.N of IV ECE presented a paper on "Geo Network Security Mechanism Based on Blockchain and AKD Protocol" at Jai Shriram Engineering College on 20.05.2022.
- Pritha.V, Janani.M of IV ECE presented a paper on "IoT-Based Sewer Clogging Prediction System for Smart City" at Karpagam College of Engineering from 20.05.2022 to 21.05.2022.
- Monika.K, Preethi.R, Kiruba.S of IV ECE presented a paper on "IoT-Based Health Monitoring System" at Karpagam College of Engineering from 20.05.2022 to 21.05.2022.
- Latha.S, Kiruthika.M, Akshitha.S of IV ECE presented a paper on "IoT-Based Shrewd Monitoring System for Aquaculture" at Bannari Amman Institute of Technology from 20.05.2022 to 21.05.2022.
- Bauldaniel.M, Annamalai M, Gowtham.C of IV ECE presented a paper on "Lung Cancer Prediction in Lung CT Scan Image Using Convolutional Neural Network" at International Journal of Creative Research Thoughts on 19.05.2022.
- Abi.D, Akalya.S, Arthiya.S, Mathila.P of IV ECE presented a paper on "Oil Spill Detection Using CNN Algorithm" at Bannari Amman Institute of Technology from 20.05.2022 to 21.05.2022.
- Vijay.K, Sakthivel.A, Jayaseelan.S, Santhosh Kumar.S of IV ECE presented a paper on "Pill Recognition Recommendation System Using DCNN" at Jai Shriram Engineering College on 20.05.2022.
- Avanthika.A, Padma.R, Visutha.R, Monika Tamilarasi.N of IV ECE presented a paper on "Automatic Blood Bank Monitoring System Using IoT" at Bannari Amman Institute of Technology from 06.05.2022 to 07.05.2022.
- Vijayalakshmi.M, Priyadharshini.R, Valliammai.Sm, Ayshwarya.R of IV ECE Published a paper on "Dry Handwashing Using Fog to Save Water" at International Journal of Creative Research Thoughts on 29.05.2022.

2 COURSES ATTENDED

- Rasika M of III ECE completed a course on "C Course" at Solo Learn on 01.07.2021.
- Dhanushkarthick D of II ECE completed a course on "PCB Design" at Udemy on 30.12.2021.
- Emilin Pearl Sharal D of III ECE completed a course on "Power Excel" at LUDIFU on 01.11.2021.
- Rasika M of III ECE completed a course on "Python Data Structures" at Solo Learn on 01.07.2021.
- Akshitha S of IV ECE completed a course on "VLSI SoC Design Using Verilog HDL" at Maven Silicon on 03.11.2021.
- Annamalai M of IV ECE completed a course on "VLSI SoC Design Using Verilog HDL" at Maven Silicon on 06.11.2021.
- Janani M, Sivasankari V, Muhilan M, Kiruba S of IV ECE completed a course on "VLSI SoC Design Using Verilog HDL" at Maven Silicon on 12.11.2021.
- Preethi R of IV ECE completed a course on "VLSI SoC Design Using Verilog HDL" at Maven Silicon on 14.11.2021.

3 PARTICIPATION IN NON TECHNICAL EVENTS

- Revathi S of II ECE participated in an Online Quiz on Agriculture at Yaavarum Kelir (State Level) from 06.12 to 11.12.2021.
- Sabari Anandan T of II ECE participated in an Online Quiz on General Knowledge at Yaavarum Kelir (State Level) from 15 to 20.11.2021.
- Sabari Anandan T, Rajavel N of II ECE participated in an Online Quiz on Aptitude at Yaavarum Kelir (State Level) from 25.10.2021 to 31.10.2021.
- Alagesan K of II ECE participated in a Drawing Competition at Yaavarum Kelir (State Level) on 24.10.2021.
- Rajavel N of II ECE participated in a Poetry Writing Competition at Yaavarum Kelir (State Level) on 17.10.2021.

❖ Revathi S, Reethika B of II ECE participated in a Logo Designing Competition at Yaavarum Kelir (State Level) on 10.10.2021.

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 THE COMPANY		NO. OF STUDENTS
DATAZOIC ERA OF DATA	DataZoic	03
EXCELACOM TECHNOLOGIES	Excelacom Technologies Private Limited	02
MMC Infotech Services P Ltd	MMC Infotech Service Pvt Ltd	01
IGS INFO G SOLUTION	Info G Innovative Solution	01
SIX PHRASE	Six Phrase	01
wipro	Wipro	01
Justdial	Justdial	03

motherson	Kyungshin Industrial Motherson Ltd	19
SUTHERLAND	Sutherland	04
TATA CONSULTANCY SERVICES	Tata Consultancy Services	02
SAKTHI AUTO COMPONENT LIMITED	Sakthi Auto Components	02

FACULTY CONTRIBUTIONS AND PARTICIPATIONS

1 Dr. M. Kumar

FDP Participation

- Dr. M. Kumar successfully completed the FDP on “Wireless Communication Technologies” at Atal Bihari Vajpayee Indian Institute of Information Technology and Management (IIITM) under the ATAL program.

Paper Publication

- Dr. M. Kumar published a research paper titled "Dry Handwash Using Fog to Save Water" in the International Journal of Creative Research Thought (IJCRT), May 2022.

2 Dr. B. Deepa

FDP Participations

- Dr. B. Deepa successfully completed the FDP on “RF Applications Using RF SoC Devices” at Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.
- Dr. B. Deepa successfully completed the FDP on “Artificial Intelligence in Image Processing” at Indian Institute of Information Technology (IIIT), Nagpur.

3 Mr. P. Selvan

FDP Participations

- Mr. P. Selvan successfully completed the FDP on “Embedding AI in Smart Sensors” at Sri Ramakrishna Engineering College, Coimbatore, under the ATAL program.
- Mr. P. Selvan successfully completed the FDP on “VLSI Design” at P.S.N.A College of Engineering and Technology, Dindigul.

Paper Publication

- Mr. P. Selvan published a research paper titled "Lung Cancer Prediction in Lung CT Scan Images Using Neural Networks" in the International Journal of Creative Research Thought (IJCRT), May 2022.

4 Ms. D. Ragavi

FDP Participations

- Ms. D. Ragavi successfully completed the FDP on “Quantum Computing and Quantum Cryptography” at National Institute of Technology (NIT), Karnataka, under the ATAL program.
- Ms. D. Ragavi successfully completed the FDP on “VLSI Design” at P.S.N.A College of Engineering and Technology, Dindigul.

MOOC Certification

- Ms. D. Ragavi successfully completed the “CMOS Digital VLSI Design” course offered by NPTEL.

5 Mr. M. Prabhakaran

FDP Participations

- Mr. M. Prabhakaran successfully completed the FDP on “Signal Processing for Cognitive Neuroscience Applications” at National Institute of Technology (NIT), Meghalaya, under the ATAL program.
- Mr. M. Prabhakaran successfully completed the FDP on “RF Applications Using RF SoC Devices” at Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

6 Mr.S.T.P.Senthil Kumar

FDP Participation

- Mr. S. T. P. Senthil Kumar successfully completed the FDP on “Innovation in Telemedicine in Rural India Enabled by Advancements in Artificial Intelligence, Medical Devices, and the Internet of Things” at R.M.K. Engineering College, Chennai, under the ATAL program.

Editorial Board

Faculty Members

1. Mr.P.Selvan, ASP/ECE
2. Mr.S.T.P.Senthil Kumar, AP/ECE

Student Members

1. M.Annamalai, IV ECE
2. R.Padma, IV ECE
3. V.Govindaraj, III ECE
4. M.Rasika, III ECE