

SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ECEBYTE – 22 TECHNICAL

MAGAZINE

I am delighted to introduce the ECE BYTE, our technical magazine. This publication serves as a platform to showcase the hidden writing talents of students, helping them refine their skills and contribute to their overall personality development. I extend my heartfelt congratulations to all the contributors for their dedication and effort in bringing this magazine to life.



Thiru.K.C.Karupanan MLA

Secretary/SVHEC

SVHEC has made impressive strides, accomplishing notable milestones in a short period. It brings me great joy to see the students and faculty of the ECE department introducing ECE BYTE, the department's technical magazine. This publication serves as a platform to highlight the literary and technical talents of both students and faculty while nurturing leadership skills and intellectual growth.



Rtn.P.Venkatachalam,MPHF

Chairman/SVHEC

I extend my heartfelt congratulations to the Department of ECE and the ECE BYTE team for successfully publishing the first issue of this prestigious technical magazine. I am confident that this magazine will serve as a valuable platform for students and faculty to enhance their technical knowledge and showcase their literary talents. A special appreciation goes to the editorial board for their dedication and hard work in bringing this publication to life.



Dr.P.Thangavel ME MBA PhD

Principal/SVHEC

Dr.R.S.Kamalakannan

Head of the Department

Electronics and Communication Engineering



I appreciate to the faculty members and students for the magazine committee of ECEBYTE22 to successful completion of this magazine

As the Head of the Electronics and Communication Engineering department, it's my pleasure to see our students showcase their talents and achievements in this magazine. This publication highlights the innovative projects, research work, and extracurricular activities of our students, demonstrating their dedication and passion for the field.

Our department is committed to providing a nurturing environment that fosters academic excellence, creativity, and innovation. We strive to equip our students with the knowledge, skills, and values necessary to succeed in their careers.

I commend the editorial team for their hard work and initiative in bringing out this ECEBYTE magazine. It's a testament to the department's spirit and enthusiasm. I hope this publication inspires and motivates our students to pursue their goals with dedication and perseverance.

I wish the magazine all the best and look forward to seeing future editions. I believe it will become a valuable platform for our students to express themselves, share their ideas, and showcase their talents.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ABOUT ELECTRONICS AND COMMUNICATION DEPARTMENT

The Electronics and Communication Engineering Department was established in the year 2008. The department offers Undergraduate (BE-ECE), & Post Graduate (ME-Applied Electronics) programmes, that provide students with the knowledge and Tools they need To succeed in the ECE. After the completion of the course, lots of opportunities are there in various fields of Telecommunication Networks and Embedded System, Signal & Image Processing, VLSI Design etc. To expose the students To the world of technology and produce graduates fully equipped To achieve the highest personal and professional standards for Industry application and in higher studies. The Department has built an excellent reputation for its graduates in terms of placements

VISION

Produce competent Electronics and Communication Engineering professionals withscientific temper, values, ethics, team spirit and capabilities To face new challenges

MISSION

Provide conducing learning environment with state-of-the-art infrastructure facilities, laboratories and teaching learning systems.

Produce skilled Electronics and/or Communication Engineers with skills Towards employability, leadership, communication skills with social responsibilities and ethical values

► Inculcate Professional skills to function as proficient engineers and designers capable ofbuilding sustainable equipment/systems and infrastructure for the society.

Promote research and development activities in the rapidly changing technologies related To Electronics and Communication Engineering and allied domains.

- 1. Successful career To enable graduates have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs
- 2. Foundational concepts To provide students with strong foundational concepts and also advanced techniques and Tools in order To enable them To build solutions or systems of varying complexity.
- **3. Analyze Methodology** To prepare students To critically analyze existing literature inan area of specialization and ethically develop innovative and research oriented methodologies To solve the problems identified.

Program Outcomes (POs)

- **1. Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization To the solution of complex engineering problems.
- **2. Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **3. Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information To provide valid conclusions.
- **5.** Modern Tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT Tools including prediction and modeling To complex engineering activities with an understanding of the limitations.
- **6.** The engineer and society: Apply reasoning informed by the contextual knowledge To assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant To the professional engineering practice.
- **7.** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **8.** Ethics: Apply ethical principles and commit To professional ethics and responsibilities and norms of the engineering practice.

- **9. Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **10.Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able To comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **11.Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these To one's own work, as a member and leader in a team, To manage projects and in multidisciplinary environments.
- **12. Life-long learning**: Recognize the need for, and have the preparation and ability To engage in independent and life-long learning in the broadest context of technological change.

Program Specific Program Outcomes (PSOs)

- **1. Foundational concepts**: To analyze, design and develop solutions by applyingfoundational concepts of electronics and communication engineering.
- **2. Design and Develop:** To apply design principles and best practices for developingquality products for scientific and business applications
- **3. Innovation and solutions:** To adapt To emerging Information and Communication Technologies (ICT) To innovate ideas and solutions To existing/novel problems.

Editor-in-Chief

Dr.R.S.Kamalakannan HOD/ECE Staffs: Ms.D.Ragavi, AP/ECE Students: D.Yogesh shankar- IV ECE S.Vignesh - IV ECE Keerthana- III ECE J.Jebastin– III ECE R.Sarathkrishnan – II ECE Vanipriya – II ECE

WORLD'S FIRST ROBOT-PAINTED CAR

ABB Robotics has created the world's first robot-painted art car in collaboration with world renowned artists: Advait Kolarkar, an eight-year-old Indian child prodigy, and Illusorr, a Dubai based digital design group. Without the need for human intervention, ABB's awardwinning PixelPaint technology has perfectly recreated Advait's whirling monochromatic design as well as Illusorr's tri-colour geometrical patterns. PixelPaint technology captures complex, elaborate detail that would be hard to produce by hand with extraordinary precision and speed. The paint can be applied in a single application if it is well regulated. This breakthrough in paint automation allows the car industry to offer more specific and individualised designs.



JEBASTIN

III ECE

A LOUDSPEAKER AS THIN AS PAPER

Engineers at MIT have created a paper-thin loudspeaker that can turn any surface into a sound source. It generates low-distortion sound while consuming a fraction of the energy required by regular loudspeakers. The research simplifies speaker design by employing a thin layer of shaped piezoelectric material that moves when electricity is applied to it, thus moving the air above it and producing sound. "It feels remarkable to take what looks like a slender sheet of paper, attach two clips to it, plug it into the headphone port of your computer, and start hearing sounds emanating from it," says Vladimir Bulović, the Fariborz Maseeh, lead author of the study.



SARATHKRISHNAN

II ECE

RESEARCHERS DEVELOP SUPERSENSITIVE E-SKIN

A research team from Chemnitz and Dresden has made significant progress in the development of sensitive electronic skin (e-skin) with integrated artificial hair. The team looked at a new way to develop very sensitive and direction-dependent 3D magnetic field sensors that may be used in an e-skin system. An anisotropic magnetoresistance (AMR) sensor lies at the heart of the sensor system, which was created using the 'micro-origami method.' Similar to real skin, which is interwoven with nerves, this e-skin is made of an elastomeric material into which the electronics and sensors are placed



MEENAKSHI III ECE

AUGMENTED AND VIRTUAL REALITY

Virtual reality is an obvious choice when it comes to highly coveted, highly visible advancements in technology this year. "Virtual reality," in short, is a simulated digital landscape that is accessible through wearable hardware, such as VR headsets and motion controllers.

"Augmented reality," is similar, but rather than a virtual world, AR displays the real-world landscape surrounding the user, but overlays these with generated visuals. Overall, AR and VR were once considered fantasy concepts and nothing more. But as multiple leading tech companies throw their hat in the ring, their competition can only lead to innovation and improvement within the field overall.



VANIPRIYA II ECE

THE METAVERSE

Metaverse technologies have actually been around since as early as 1995, thanks to video games and other online platforms. But it's with Meta (previously Facebook) that this platform is back in the public eye. More aptly described, the metaverse is a graphically rich virtual space.

It's not that different from virtual reality, which uses headsets and motion controls to immerse the user. The key distinction, however, is that metaverse technologies are establishing shared community spaces rather than individual, linear game experiences. Users tapped into the metaverse can surf the web, browse online stores, or conduct meetings.



VARSHINI II ECE

BLOCKCHAIN TECHNOLOGY

The blockchain, in so few words, is often described as "digital ledger technology," keeping records of data and monetary transactions. For public blockchains to function, they operate via cryptocurrency, which is a decentralized virtual currency that isn't regulated by a central authority.

Because of its decentralized nature, blockchain technology is virtually impossible to modify or hack by outsiders. Many consider blockchain's potential to extend far past the constraints of cryptocurrency for this very reason. Data and asset protection is a big concern for a wide variety of businesses, organizations, and other groups. Securing data on the blockchain appears to be the best way to maintain those assets.



E.KAVIYA II ECE

AN ELECTRIC EYE WITH A VERTICAL COLOUR SENSOR

Researchers at Georgia State University have created a new form of artificial vision device that uses a novel vertical stacking architecture to enable higher colour recognition depth and micro scalability. According to the team, the vander Waals semiconductor-empowered vertical colour sens- ing structure has exact colour identification capabilities, which simplifies the design of an optical lens system for artificial vision. Compared with conventional semiconduc- tors, such as silicon, this sensor can precisely control the van der Waals material band structure, thickness, and other critical parameters to sense red, green, and blue colours.



SOUNDARYA III ECE

STUDENTS PROJECTS

Title: Voice Control Wheel Chair For Physically Challenged Persons And Accident Prevention Using Arduino

This project describes the design of a smart voice-controlled wheelchair for physically challenged people using embedded system. Proposed design is based on voice activation system for physically differently abled persons incorporating manual operation. The voice command is given through a cellular device to wheelchair having Bluetooth and the command is transferred and converted to string by the BT Voice Control for Arduino



Done by, Yogeshsankar D Baraneetharan B Nandhakumar K Vasanth P

Title: Ultrasonic Sensor Based Smart Walking Stick For Blind Integrated With SOS Navigation System

Blind people face many difficulties to interact with their nearby environment. The aim of this paper is to provide a tool which will help blind people to navigate as well as sense the obstacles. We plan to propose a working model which is Walking Stick with in-built ultrasonic sensor with a micro controller system. The ultrasonic sensor is used to detect obstacles using ultrasonic waves. On sensing obstacles the sensor passes the data to the microcontroller. The microcontroller then processes the data and calculates if obstacle is close enough.



Done by, Sivaranjani K Sathish S Dharanidharan M

Title : Smart Vehicle Automation With Black Box Using IOT

The main goal of this work is to develop a prototype of the incident detection system using the black box. In the event of an accident, if an accident has occurred to the driver or passengers of the car, a loss of life may occur due to delays in medical assistance. The given sensor is connected to the micro controller and it is just record the various driving data parameters in ubidots (open source cloud). It presents the prototype automobile black box system it is having the group of sensor and also gives the black box sends an alert message to pre stored mobile number.



Done by, Praveen P Vanmathi P Princy G

Title : Wireless Data Transferring Of Pulse Monitoring And Tracking System

Wireless Sensor Networks (WSNs) for healthcare have emerged in the recent years. Wireless technology has been developed and used widely for different medical fields. This technology provides healthcare services for patients, especially who suffer from chronic diseases. Services such as catering continuous medical monitoring and get rid of disturbance caused by the sensor of instruments. Sensors are connected to a patient by wires and become bed-bound that less from the mobility of the patient. In this paper, proposed a real-time heart pulse monitoring system via conducted an electronic circuit architecture to measure Heart Pulse (HP) for patients and display heart pulse measuring via smartphone and computer over the network in real-time settings.



- Done by,
- Nathiya P
- Kirubhakar K
- Baby Shalini C

Title : Design and Implementation of Safety Assistant and Harassment Prevention for Women

The safety of women is a increasing urgency in India and other countries. Every day, each girl, women, and those from different backgrounds of life struggle to be secure and rescue themselves from the quite disrespectful guy's roving eye that abuses girl's dignity each day. Its miles implemented within the form of a wearable jacket and include PIC microcontroller, Heartbeat sensor, temperature LM35, GPS, LCD, Emergency button and ESP32 cam. This device is extremely compact and may be triggered utilizing the sufferer just through clicking a button and additionally use to study human temperature and heart rate exceeds above the edge cost it without delay ship her cutting-edge location, and seize the attacker's photograph, through the ESP32 camera to telegram. The location and connection of the captured picture and SMS can be sent to the selected contact numbers or police. We additionally use electric shock, It is issued to culprit for safety purpose, in case of any bad touch. when the lady is not in that situation to press button, she uses to mention help by electric shock then a message will be dispatched to the emergency contact numbers



Iswarya S Kanniyamma A Kaviya Priya M

Title : IOT based Industrial Pollution Monitoring System

Industrialization increases the degree of automation and so it increases pollution by releasing pollutants into the atmosphere. There should be a system to monitor and assess the industrial pollution. Specific attention is given to the factors which affects the health of living organisms and Ecosystem. Industrial pollution monitoring is the collection of information at different locations of industries and at regular intervals of time in order to provide the data which may be used to define current conditions. Due to the complexity of parameters large variations are found between different industries. The proposed system aims in building a robust system that can measure the industrial pollution and help to reduce it and to decrease human interference in monitoring the industrial pollution and provide a healthy environment for the workers to work in. The system evaluates the industrial pollution continuously and indicates when there is an increase in the emissions and takes action to control it using Internet Of Things.



Jagatheesh M

Megharaj S

Veerasekar B

Title : Smart Intelligent Vehicle

Theft security of vehicle in common parking places has become a matter of concern. An efficient automotive security system is implemented for anti-theft using a arduino with Global System for Mobile Communication (GSM). Two-Wheelers are the preferred vehicle to steal due to the ease with which they are dismantled and Two-wheeler thefts are at a rapid rise in India, whereas the rate of recovery remains horribly low, leading to a huge loss that can be considered unrecoverable. A survey of the presently available security measures and systems was carried out. The objective of the investigation was to understand the security measures that are needed to be taken, as well as the current availability of the same in the market. The system contains GSM module, alcohol sensor, DC motor, GPS, RF Tx & Rx, IR sensor, LCD display and relay. It uses GSM module to send the SMS to the authorized user. The IR sensor senses the insertion of key and check the key. The two-wheeler starts within the count or not. An SMS is sent to the user. After checks helmet is wearing or not. The Limit Switch inside the helmet is give permission to run the Motor and Fuel valve.



Nimalvarshan.S.J Ranjith Kumar.C

Vignesh.S

Title : Motion and Detection Based Security System using Raspberry Pi

As An Essential Constituent Of Many Associations Security And Safety Precedence . This Project Deals With The Design Approach Of An Embedded Real Time Surveillance System Based Raspberry Pi SBC For Intruder Detection That Reinforces Surveillance Technology To Provide essential Security To Our Life And Associated Control And Alert Operations. Raspberry Pi Operates And Control Motion Detectors And Video Cameras For Remote Sensing And Surveillance , Streams Live Video And Records It For Future Playback. This Research Is Focused On Developing A Surveillance System That Detects Strangers And To Response Speedily By Capturing And Relaying Images To Owner Based Wireless Module. This Type Of Technology Is Of Great Importance When It Comes To Surveillance And Security. Live Video Streams Will Therefore Be Used To Show How Objects Cam Be Detected Then Tracked.



Karthika M Kiruthiga T

Monika M

Title : Solar Panel Monitoring and Maintenance System

Solar panel or photovoltaic model is an assembly of photovoltaic cells mounted in a framework for installation. Solar panels use sunlight as a source of energy to generate direct current electricity. The solar PV modules are generally employed in dusty environments which is the case in trophical countries. The existing system of cleaning the panel system is done by water spray mechanism. It is very important to clean the solar panels. Dirt on the solar panels prevents the entry of light. Dust or pollen prevent the light from reaching the solar cells which eventually leads to less energy production. The efficiency of solar panel gradually decreases because of dust accumulation. In this Arduino based solar panel maintenance system is designed and implemented for dust removal. This solar panel cleaner is waterless, economical and automatic. Two step mechanism used in this system consists of an exhaust fan which works as an air blower and a brush is used to swipe the dust from the panel surface. Temperature, Voltage, Current and Dust accumulation will be measured automatically and the values are displayed in LCD.



Gokul S

Nithya S

Prathusha Devi S

Title : Vehicle Safety System with Driver Assistance and IOT Communication

Detection of drowsiness of driver is a vehicle safety technology, which helps to put off accidents which caused by the driver being dozy. A variety of studies have recommended that around 20% of all road accidents are due to drowsiness of the driver. The developments of technologies for detecting or preventing drowsiness while driving is a major confront in accident evasion systems. Because of the peril of the tiredness while driving, different new methods need to be developed for counteracting the effect. The project is based on an example for detection of drowsiness system. The intent of this project is design of an automated system for safety of driver from improper driving. The system is designed such that it will precisely scrutinize the eye blink. In this paper, the eye blink of the driver is detected by using eye blink sensor which is IR based. The disparity across the eye will vary as per eye blink. The output is high, if the eye is closed or else output is low. It indicates closing or opening position of an eye. The IR output is given to circuit to signify the alarm. The controller will send a warning signal so that it is displayed on liquid crystal display screen. The buzzer, which is placed near the driver, will be activated and alters the driver when he falls asleep during driving. The alcohol sensor is also used to detect whether the driver is drunken which avoids accident caused by the drunken drivers. A lane detector is used to detect the nearest lane and warn the driver.



- Bharanidharan B
 - Menaga B

Yogesh M

Title : Design and Development of Smart Agriculture Monitoring Technique using

ΙΟΤ

Agriculture is basic source of livelihood People in India. It plays major role in economy of country. But now days due to migration of people from rural to urban there is hindrance in agriculture. Monitoring the environmental factor is not the complete solution to increase the yield of crops. There are no of factors that decrease the productivity to a great extent. Hence Automation must be implemented in agriculture to overcome these problems. An automatic irrigation system thereby saving time, money and power of farmer.

The Traditional Farm land irrigation techniques require manual intervention. With the automated technology of irrigation the human intervention can be minimized. Continuous sensing an monitoring of crops by convergence of sensors with Internet of things (IOT) and making farmers to aware about crops growth, harvest time periodically and in turn making high productivity of crops and also ensuring correct delivery of products to end, consumers at right place and right time. So to overcome this problem we go for smart agriculture technique using IOT. includes sensors such as temperature, humidity, soil moisture and rain detector for collection the field data and processed. These sensors are combined with well established web technology in the form of wireless sensor network to remotely control and monitor data from the sensors.



Gokul K Kavipriya M Roopana J

Student participation in conference

S. No	Name of the Student	Title	Name of the Event	Name of the College
1	KaviyaPriya M	Design And Implementation Of		
		Safety Assistant And	National Conference	Hindusthan
2	Iswarya S	Harassment Prevention For	On "Emerging Trends	Institute
3	Kanniyamma A	Women	In Engineering Design	Of Technology
			And Manufacturing	Coimbatora
				Combatore
4	Jagatheesh M	IOT Based Industrial Pollution	National Conference	Hindusthan
5	Megharaj S	Monitoring System	On "Emerging Trends	Institute of
6			In Engineering Design	Coimbatora
0	Veerasekar B		ETEDM_22	Combatore
			ETEDWI-22	
7	Raniithkumar C		National Conference	Hindusthan
0		Smart Intelligent Vehicle	On "Emerging Trends	Institute of
8	Vignesh S		In Engineering Design	Technology,
9	Nimalvarshan S J		AndManufacturing"	Coimbatore
			ETEDM-22	
10	Kiruthiga T	Motion And Detection Based	National Conference	Hindusthan
11		Security System Using	On "Emerging Trends	Institute of
	Monika M	Rasbperry pi	In Engineering Design	Technology,
12	Karthika M		AndManufacturing"	Coimbatore
			ETEDM-22	
13	Prathusha Devi S	Solar Panel Monitoring And	National Conference	Nandha College
14	Nithya S	Maintenance System	On Emerging Trends In	of Technology
			Engineering&	Erode
15	Gokul S		Technology	
16	Menaga B	Vehicle Safety System With	National Conference	Hindusthan
17		Driver Assistance And IOT	On "Emerging Trends	Institute of
17	Yogesh M	Communication	In Engineering Design	Technology,
18	Bharanidharan R		AndManufacturing"	Coimbatore
			ETEDM-22	

19	Nathiya P	Wireless Data Transferring Of	National Conference	Hindusthan
20	Vizyhbalzan V	–Pulse Monitoring And Tracking	On "Emerging Trends	Institute of
20	KITUDIIAKAT K	System	In Engineering Design	Technology,
21	Baby Shalini C		AndManufacturing"	Coimbatore
			ETEDM-22	
22	Praveen P	Smart Vehicle Automation	National Conference	Hindusthan
		 With Black Box Using IOT 	On "Emerging Trends	Institute of
23	Vanmathi P		In Engineering Design	Technology,
24	Princy G		AndManufacturing"	Coimbatore
			ETEDM-22	
25	Roopana I	Design And Development	National Conference	Hindusthan
		– Smart Agriculture Technique	On "Emerging Trends	Institute of
26	Kavipriya M	Using IOT	In Engineering Design	Technology.
27	Colul K		AndManufacturing"	Coimbatore
	OOKUI K		ETEDM-22	
20	<u>с к</u>	Ultrasonic Sensor Based Smart	National Conference	Hindusthan
28	Sivaranjani K	- WalkingStick For Blind	On "Emerging Trends	Institute of
29	Sathish S	Integrated With SOS	In Engineering Design	Technology.
20		Navigation System	AndManufacturing"	Coimbatore
30	Dharanidharan M		ETEDM-22	
21		Voice Control Wheel Chair For		
51	Yogeshsankar D	- Physically Challenged Persons	National Conference	Hindusthan
32	Baraneetharan B	And Accident Prevention Using	On "Emerging Trends	Institute of
22		Arduino	In Engineering Design	Technology,
33	Nandhakumar K		AndManufacturing"	Coimbatore
34	Vasanth P		ETEDM-22	
	1		1	

Prize Awarded

S.No	Name of the Student	Name of the event	Organized by	Date
1	Mangaiyarkarasi E	Paper Presentation	Velalar College of Engineering and Technology,	26.04.2022
2	Keerthana V	Paper Presentation	Velalar College of Engineering and Technology, Erode	26.04.2022
3	UmaAbirami A	Technical Quiz Pick and win	KSR Institute for Engineering and Technology, Thiruchenkode	27.04.2022
4	UmaAbirami A	Paper Presentation	KSR Institute for Engineering and Technology, Thiruchencode	27.04.2022

5	Sarathkrishnan R	Technical Quiz	MPMNJ Engineering College, Chennimalai	29.04.2022
6	Vanipriya V	Technical Quiz	MPMNJ Engineering	29.04.2022
			College, Chennimalai	
7	Sarathkrishnan R	Circuit Debugging	MPMNJ Engineering	29.04.2022
/			College, Chennimalai	
0	Vanipriya V	Circuit Debugging	MPMNJ Engineering	29.04.2022
8			College, Chennimalai	
0	Yogeshshankar D	Project Presentation	MPMNJ Engineering	29.04.2022
9			College, Chennimalai	
10	Baraneetharan B	Project Presentation	MPMNJ Engineering	29.04.2022
10			College, Chennimalai	
11	Vasanth P	Project Presentation	MPMNJ Engineering	29.04.2022
11			College, Chennimalai	
10	Nandhakumar	Project Presentation	MPMNJ Engineering	29.04.2022
12			College, Chennimalai	
12	Prathushadevi S	Paper Presentation	MPMNJ Engineering	29.04.2022
15			College, Chennimalai	
14	Sarathkrishnan R	Paper Presentation	MPMNJ Engineering	29.04.2022
14			College, Chennimalai	
15	Vanipriya V	Paper Presentation	MPMNJ Engineering	29.04.2022
			College, Chennimalai	
16	Meenakshi S	leenakshi S Paper Presentation	MPMNJ Engineering	29.04.2022
			College, Chennimalai	

AI CAN WORK WITHOUT INTERNET WITH THIS DEVICE

A new research project from the University of Central Florida aims to make artificial intelligence (AI) work without the use of the internet. The sophisticated neuromorphic or brainlike devices developed by the researchers are built on small, rectangular chips that are about 2.5cm across. Two-dimensional (2D) materials have been used to create transparent, flexible, ultra-thin memristive synapses for neuromorphic computing. By using a different method of production, the researchers were able to change the way the current passes through the device. Their next step will be to improve the technology, which will include the creation of networks with devices that will enable new applications like image recognition.



KEERTHANA

III ECE