

**Velammal College of Engineering and Technology
(Autonomous)**

Department of Computer Science and Engineering

CSE CHRONICLES

Learn Today... Lead Tomorrow..

VISION

To become a Center of Excellence in the field of Computer Science and Engineering upholding social values

MISSION

- Heightening the knowledge of the faculty in recent trends through continuous development programmes.
- Transforming the students into globally competent and technically well-equipped computer Professionals with strong theoretical and practical knowledge.
- Cultivating the spirit of social and ethical values for the cause of development of our Nation.

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CHIEF ADVISOR

Dr.R.Deepalakshmi, M.E.,Ph.d

Head of the Department

Welcome to the Department of Computer Science and Engineering.

"The function of education is to teach one to think intensively and think critically. Intelligence plus character that is the goal of true education"

-Martin Luther King, Jr

The Department of Computer Science and Engineering serves as a centre of excellence for teaching of computer science and research. It was established in the year 2007 with 60 students and 4 faculty members. Now it has expanded upto 477 students and 21 faculty members.

The department offers both Under Graduate and Post Graduate courses in CSE. The department has got well equipped computer lab with centralized monitoring facility and it is an **approved Research Centre of Anna University, Chennai**. The department has signed MoUs with CISCO, TYCO Electronics and Pearson VUE authorized testing center and has received funds worth of Rs. 111.96 Lakhs from DST, DRDO, MNRE, ISRO and IEI for Research and Development work.

The department functions with well qualified, experienced and dedicated faculty members which lead to requisite teaching and research requirements. The curriculum covers all streams of Computer Science and Engineering such as Hardware and System Programming, Application Development, Networking and distributed computing, Data Engineering and Data Analytics, and Software Engineering

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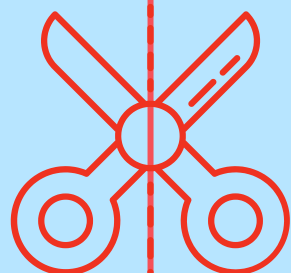




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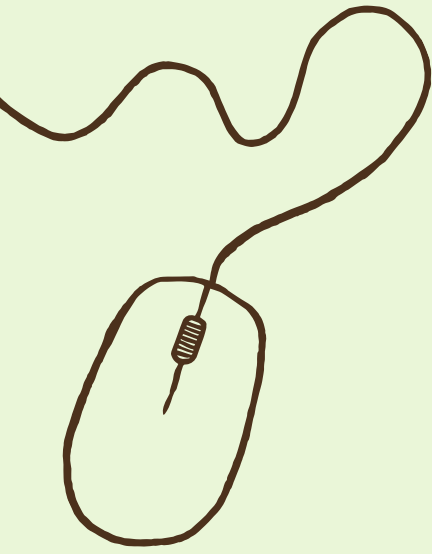
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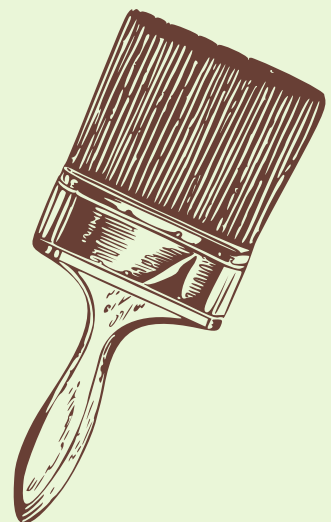
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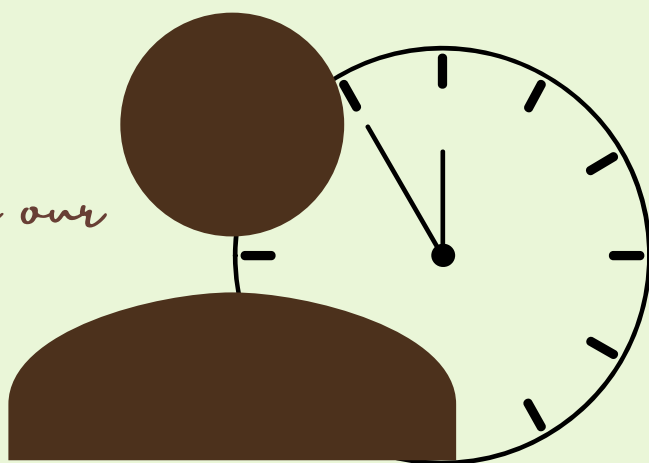
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*Enjoy yourself while reading our
department magazine!*





WIRELESS TECHNOLOGY

5G, or **Fifth-generation wireless technology**, is the latest standard in wireless telecommunications networks. It represents a significant advancement over its predecessor, 4G, in terms of speed, capacity, latency, and overall network performance.

FASTER SPEEDS

5G offers significantly faster data transfer speeds compared to 4G. While 4G networks typically provide download speeds of up to 100 Mbps, 5G can achieve speeds ranging from 10 to 100 Gbps, and even higher in some cases. This ultra-fast speed enables rapid downloads, seamless streaming of high-definition content, and supports applications that require real-time data processing.

LOW LATENCY

5G networks have extremely low latency, which refers to the time it takes for data to travel between a source and a destination. Latency is reduced to as low as 1 millisecond in 5G, making it ideal for applications that require instantaneous responsiveness, such as autonomous vehicles, remote surgery, and augmented reality (AR) and virtual reality (VR) experiences.

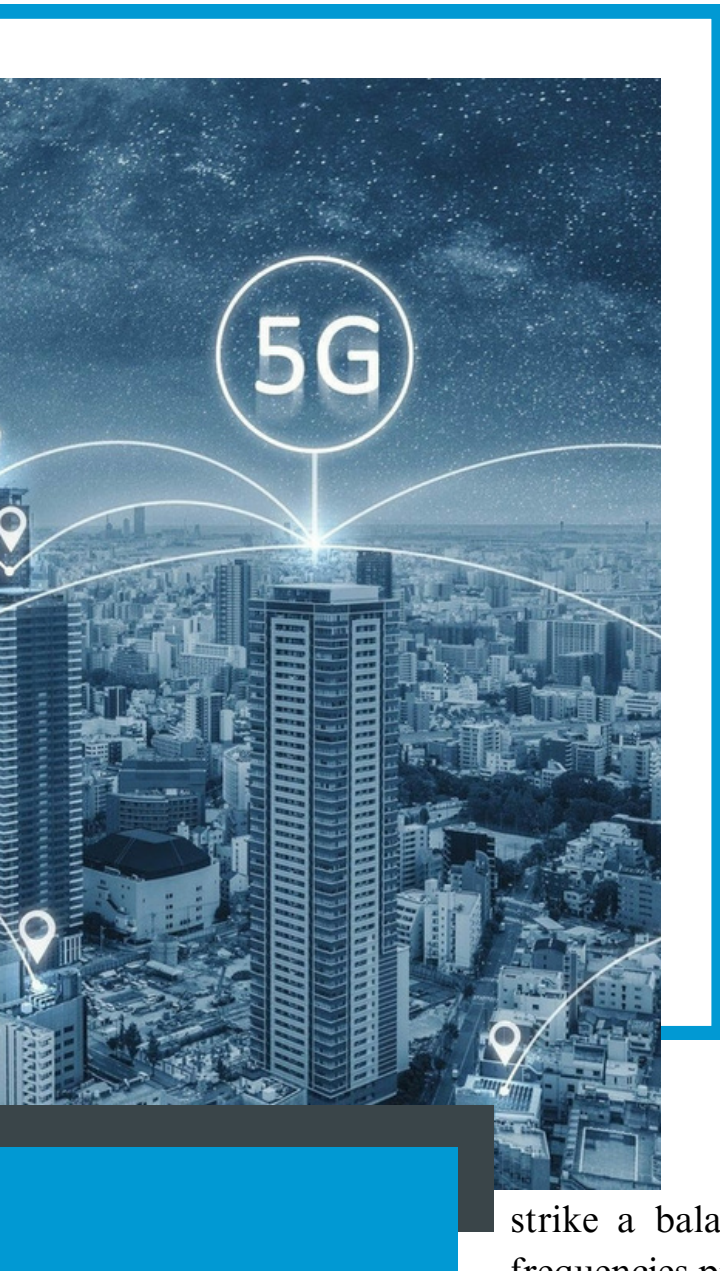
ENABLING NEW TECHNOLOGIES

5G serves as an enabler for emerging technologies and applications. It provides the foundation for advancements like autonomous vehicles, smart homes and cities, industrial automation, telemedicine remote robotics, and more. These technologies heavily rely on the ultra-fast speeds, low latency, and high capacity offered by 5G networks.



INCREASED CAPACITY

5G networks have a significantly higher capacity to support a massive number of connected devices simultaneously. This is achieved



coverage and are more affected by obstacles.

It's important to note that the deployment of 5G networks is an ongoing process, and its availability may vary depending on the region. Network operators, equipment manufacturers, and governments are working together to expand the coverage and capabilities of 5G networks to meet the increasing demand for faster and more reliable connectivity.

through the use of advanced technologies like beamforming, which allows for more efficient use of spectrum resources and reduces interference. The increased capacity of 5G networks is essential for the growing number of Internet of Things (IoT) devices and the expansion of smart city infrastructure.

NETWORK SLICING

One of the unique features of 5G is network slicing. It allows the creation of multiple virtual networks that can be tailored to specific applications or industries. Each slice can have its own characteristics, such as different data speeds, latency requirements, and security levels. Network slicing enables the customization of network services based on the specific needs of various industries, including healthcare, manufacturing, transportation, and entertainment.

SPECTRUM BANDS

5G utilizes a wide range of frequency bands to deliver its services. These include low-band, mid-band, and high-band (millimeter wave) frequencies. Low-band frequencies offer wider coverage and better penetration through buildings but have limited capacity for high data speeds. Mid-band frequencies strike a balance between coverage and capacity. High-band

frequencies provide the highest data speeds but have limited

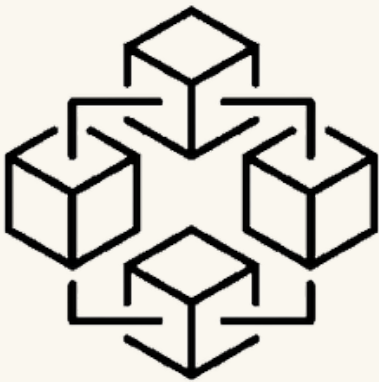
-Article by,
RITHI S
II YEAR B

BLOCKCHAIN



The above image shows the chainlink which is interlinked with one another and this chain cant be broken easily because its strongly connected and bonded.Hence this chain is highly secured.

Similarly in todays technology world, Blockchain is a system where a single data is stored in the form of multiple blocks across multiple computers.



There are four main types of blockchain networks:

- ▲ Public
- ▲ Private
- ▲ Consortium
- ▲ Hybrid

How does Blockchain work?

To explain how a blockchain works, here's a simple example of an

Imaginary situation:

>A man named Bob maintains a diary of records to keep a note of transactions between a group of people. For example, Ann gave 3 colns to Mary, Mary gave 5 coins to Jack and so on.

But Jack Intends to steal money, so he modifies the entry. For example, he erases his name and puts another person's name to escape.

However, Bob figures out that someone has intruded and so he se- Cures the transaction by generating hash (combination of letters and numbers-cff4e860bd57c2bfb7c010927c3f6fee) for each transaction. Further complicating the records, Bob included the hash of the previ- ous record along with the generated hash.

Pro's of Blockchain

Transparency

Visible history of transactions, fosters trust.

Security

Advanced cryptography, immutable transactions.

Decentralization

No central authority, distributed network of nodes.

Challenges

Scalability, energy consumption, regulatory complexities.

Trustless Environment

Transactions without central trust

Data Integrity

Immutable records, critical for sensitive data.

Blockchain technology holds immense potential to disrupt traditional systems, ushering in a new era of trust, transparency, and efficiency. As the technology continues to evolve and overcome challenges, its widespread adoption is expected to transform industries, reshape business models, and empower individuals in the digital age.

N.A. Amritha Lakshmi
II Year A



"Generative Adversarial Networks (GANs): Art and Innovation in AI"

Article by,
K .Murugan
III Year - B



Generative Adversarial Networks (GANs) have emerged as a revolutionary technology at the intersection of artificial intelligence, computer science, and creative arts. They have captivated the attention of researchers, artists, and technologists alike for their remarkable ability to generate realistic and imaginative content, making them a powerful tool for innovation in the field of AI and art.

In the realm of art creation, GANs have proven to be transformative. Their capability to generate visually stunning and authentic artworks challenges traditional notions of creativity and authorship. By leveraging large datasets of paintings, photographs, and other visual media, GANs can produce original artworks that closely mimic the style of famous artists or amalgamate different artistic elements into novel compositions. This fusion of historical influences with contemporary ideas sparks new dimensions of artistic exploration, inspiring artists to push the boundaries of their creativity.



**Artist Wins
Photography
Contest
After
Submitting
AI-
Generated
Image, Then
Forfeits
Prize**

GANs in music: GANs trained on diverse musical pieces enable the generation of original melodies, harmonies, and rhythms that resemble specific styles, offering musicians fresh inspiration and novel avenues for musical exploration.

GANs in poetry: Trained on extensive textual data, GANs produce poems with coherent structures and emotional depth, captivating writers and readers alike, blurring the lines between human language and machine intelligence.

Art Generation

GANs create visually stunning artworks by training on vast datasets, producing original pieces that mimic famous artists' styles or blend various artistic elements in captivating ways. Example: "Portrait of Edmond de Belamy," a renowned AI-generated artwork, sold for \$432,500 in 2018, demonstrating GANs' potential in the art market.

Music Composition

GANs in music composition mimic specific composers or genres, inspiring musicians with AI-generated pieces. "MuseNet" by OpenAI is a GAN-based system that composes original music across various styles and instruments.

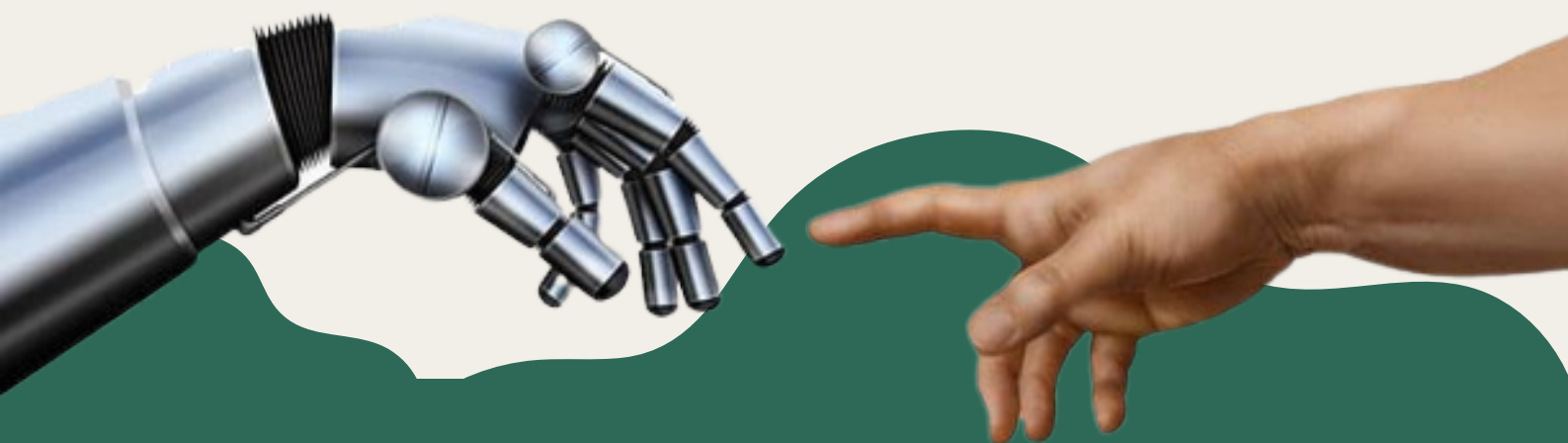
Style Transfer

GANs enable style transfer, applying the style of one image to another, creating unique artistic transformations. "DeepDream," a famous GAN application by Google, turns ordinary images into surreal, dream-like creations.

Poetry Generation

GANs in poetry and language generation produce coherent and emotionally expressive poems by training on extensive text data. "PoemPortraits" is a Google Arts & Culture AI installation that generates poems based on visitors' selfies, blending AI-generated text with visual art.

In conclusion, Generative Adversarial Networks (GANs) have revolutionized AI and art creation. They generate realistic and creative content across art forms, blurring boundaries between human creativity and AI. GANs enable unique compositions and inspire new artistic possibilities in visual art, music, and poetry. Challenges like bias and ethics remain, but as GANs advance, they promise even more exciting feats of art and innovation in the future.





RECENT INVENTIONS IN TECHNOLOGY

-Article by,
Yazhmozhe G M
III Year B

Internet of Things (IoT):

The IoT refers to the network of physical devices, vehicles, appliances, and other objects embedded with sensors, software, and connectivity to exchange data. IoT technology enables the automation and remote monitoring of various systems, such as smart homes and industrial processes. Smart home technology has become increasingly popular, with advancements in connected devices, voice assistants, and automation systems. Industrial IoT applications have improved efficiency and monitoring in sectors like manufacturing, logistics, and agriculture.



Foldable Phones:

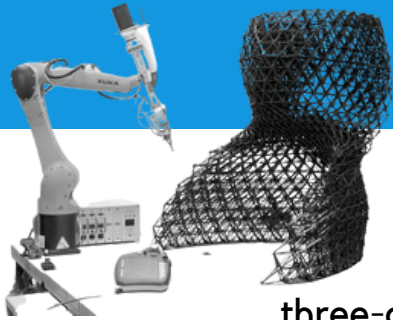
Foldable phones represent a revolutionary leap in mobile technology, combining the portability of a smartphone with the expanded functionality of a tablet. These cutting-edge devices boast flexible displays that can be folded or unfolded, adapting to different usage scenarios. By folding the screen, users can easily carry them in a compact form, while unfolding them offers a larger screen experience for tasks like multimedia consumption or productivity.



Virtual Reality (VR) and Augmented Reality (AR):

VR immerses users in a computer-generated environment, while AR overlays digital information onto the real world. These technologies are being used in various industries, including gaming, education, healthcare, and architecture.





3D Printing:

3D printing, also known as additive manufacturing, has advanced rapidly, allowing the creation of three-dimensional objects by layering materials based on digital designs. This technology has applications in various fields, including prototyping, manufacturing, and healthcare.

5G Technology:

The fifth generation of wireless technology, known as 5G, offers significantly faster internet speeds and lower latency, enabling innovations such as smart cities, connected devices, and autonomous vehicles.



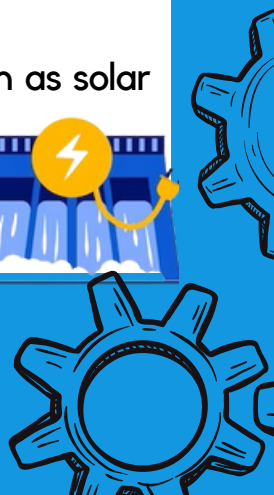
Artificial Intelligence (AI) Advancements:

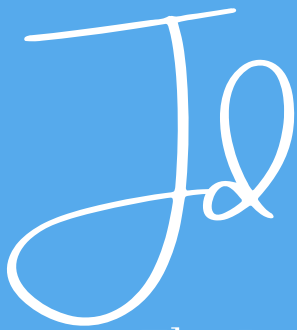
AI advancements have transformed industries, with breakthroughs in voice assistants, computer vision, and natural language processing. Machine learning algorithms drive recommendation systems and enable autonomous robots. AI's impact spans healthcare, finance, and gaming, while also contributing to smart city solutions. As technology evolves, AI continues to revolutionize society, offering exciting possibilities for the future.



Renewable Energy Innovations:

There have been advancements in renewable energy technologies, such as solar panels, wind turbines, and energy storage systems, which aim to provide sustainable alternatives to fossil fuels.





"Tweeting the Future:

The Jack Dorsey Story of Innovation and Influence"

"From a simple idea to a global phenomenon, Twitter has reshaped how we connect, communicate, and engage with the world. As the co-founder of this revolutionary platform, I, Jack Dorsey, embarked on a journey that transcended boundaries and redefined social interaction. From 280 characters to shaping cultural movements, each tweet has the power to spark change and inspire millions. It's not just about the characters typed; it's about the stories shared, the revolutions ignited, and the connections made. As we tweet our thoughts and dreams into existence, we are all part of a dynamic conversation that knows no bounds. So, let's embrace the power of brevity, embrace the art of tweeting, and together, let's shape the future one tweet at a time."

Jack Dorsey is an American entrepreneur and computer programmer who co-founded Twitter and Square Inc. He was born on November 19, 1976, in St. Louis, Missouri, USA.

Twitter:

Dorsey co-founded Twitter in March 2006 with Biz Stone and Evan Williams. The idea for Twitter came from Dorsey's fascination with status updates on live dispatch software used by taxis and emergency services. Twitter started as a microblogging platform where users could post short messages, known as tweets, of up to 140 characters. It quickly gained popularity and became one of the most influential social media platforms globally.

Square Inc.:

In addition to Twitter, Dorsey is also a co-founder of Square Inc., a financial services and mobile payment company. Square was founded in 2009 to provide small businesses and individuals with a simple way to accept credit card payments using a mobile device. Over time, Square expanded its offerings to include various financial services and products.

Role and Career:

Jack Dorsey served as the CEO of Twitter from its inception until 2008 when he was replaced by Evan Williams. He then took on the role of Chairman of the Board. In 2015, he returned as CEO of Twitter.

In 2009, Dorsey co-founded Square Inc., and he has held various roles within the company, including CEO and Executive Chairman.

Other Ventures:

Jack Dorsey has been involved in various other ventures and investments throughout his career. For instance, he was an early investor in companies like Uber and Airbnb.

Social Media:

You can find Jack Dorsey on Twitter, where he is an active user. His handle is [@jack](#).

It's essential to note that my knowledge has a cutoff date of September 2021, so there may have been developments or changes related to Jack Dorsey's career and ventures beyond that time.

Politics :

As of my last knowledge update in September 2021, Jack Dorsey has been involved in some political controversies due to his roles as the CEO of Twitter and Square Inc. Both platforms have been scrutinized for their content moderation policies and how they handle political content and misinformation. Here are some key points related to Jack Dorsey and politics:

Content Moderation and Political Bias: Twitter, under Dorsey's leadership, faced accusations from various political figures and groups of bias in its content moderation practices.

Some critics claimed that Twitter exhibited a bias against conservative voices, while others argued that the platform didn't do enough to curb hate speech and misinformation from various political factions.

Section 230 and Online Regulation: Twitter, along with other social media platforms, has been involved in debates surrounding Section 230 of the Communications Decency Act, a crucial legal provision that shields online platforms from liability for user-generated content. There have been calls from both sides of the political spectrum to reform or repeal Section 230, and Dorsey has been part of discussions on this topic.

Donations and Political Causes:

Jack Dorsey, as an individual, has been known to support certain political causes and donate to various organizations. His personal political views and donations have occasionally drawn attention and discussion.

It's important to note that the political landscape and controversies surrounding tech companies can change rapidly, and there might have been further developments beyond my last update in September 2021. For the most current information, I recommend checking recent news sources or Jack Dorsey's public statements.



Article by,
Ramkishan C B
II Year - B

Timeline of TESLA



Model X: Tesla introduces the Model X, an all-electric SUV with distinctive falcon-wing doors.

2015

Tesla Motors is founded by Martin Eberhard and Marc Tarpenning

2003

Tesla announces plans to build its Gigafactory in Nevada, aiming to mass-produce batteries for its electric vehicles.

2004

Elon Musk becomes Chairman of Tesla's board of directors and invests in the company

2014

Tesla launches the Model S, an all-electric luxury sedan, which receives widespread acclaim.

2016

Model 3: Tesla unveils the Model 3, a more affordable electric sedan aimed at broader market appeal.

2012

2006

The company unveils the Tesla Roadster, an all-electric sports car, based on the Lotus Elise chassis.

IPO: Tesla goes public with its initial public offering (IPO) on the NASDAQ stock exchange

2010

Tesla completes its acquisition of SolarCity, a solar energy company, expanding its clean energy offerings.

2017

Tesla begins production of the Model 3 and faces challenges in meeting demand and production targets.

2008

The company unveils the Tesla Roadster, an all-electric sports car, based on the Lotus Elise chassis.

In the realm of electrifying innovation, where dreams merge with reality, Tesla reigns supreme. With visionary genius Elon Musk at the helm, Tesla is not just an automotive company; it's a revolution. From the sleek and powerful Model S to the futuristic Cybertruck that defies conventions, Tesla's electric vehicles defy expectations and accelerate us towards a sustainable future. But Tesla's impact transcends the roads, with cutting-edge advancements in renewable energy and battery technology reshaping our world. Embracing the spirit of daring pioneers, Tesla dares to dream big, challenging the status quo and driving us into a brighter, greener tomorrow. Welcome to the electrifying journey with Tesla, where innovation knows no bounds.



The Tesla logo features a stylized "T" with a curved line, representing an electric motor's rotor. It symbolizes Tesla's focus on electric propulsion and innovative technology in the automotive and clean energy industries.

2021

Tesla's market capitalization surpasses that of several traditional automakers, becoming the world's most valuable automaker.

Tesla is added to the S&P 500 index, a significant milestone for the company's stock.

Tesla announces the Cybertruck, an all-electric pickup truck, and the Tesla Semi, an electric commercial truck

2021

2020

Tesla completes its Gigafactory in Shanghai, China, to produce vehicles for the Asian market.

Tesla launches the Model Y, a compact electric SUV, expanding its product lineup.

2019

Article by,
Sonal L R
IV Year B



ரத்தன் டாட்டா

இன்று இந்தியாவில் ரத்தன் டாட்டா நிறுவனம் தொடராத தொழிலே இல்லை எனக் கூறும் அளவிற்கு வளர்ச்சி பெற்றிருக்கும் ஓர் நிறுவனம் ஆகும். பருத்தி முதல் கார் வரை டாட்டா நிறுவனம் உற்பத்தி செய்யாத பொருட்களே இல்லை எனக் கூறலாம்.

இந்தியாவில் கடைக்கோடியில் இருப்பவரையும் டாட்டா நிறுவனத்தின் தயாரிப்புக்கள் சென்றடைந்துள்ளன. இதன் பெருமைக்கு வித்திட்டவர் ரத்தன் டாட்டா எனும் பிரபல தொழிலதிபர்.

நிர்வாக மேற்படிப்பை ஹார்வர்டு பல்கலைக் கழகத்தில் படித்து மிகப் பெரிய நிறுவனமாக இன்றளவும் விளங்கும் ஐபிஎம் நிறுவனத்தில் பணிக்குச் சேர்ந்தார். எனினும் தாய் நாட்டின் மீது கொண்ட பற்றின் காரணமாக இந்தியாவிற்கே திரும்பி தனது குடும்ப வணிகத்தை தொடர்ந்தார்.

1975ஆம் ஆண்டிலேயே டாட்டா குழுமத்தில் சேர்ந்தார். முப்பது வருடங்கள் அயராத உழைப்பின் பயனாக 1991 இல் டாட்டா குழுமத்தின் தலைவராகவும், நிறுவனராகவும் நியமிக்கப்பட்டார். இவரின் பின்னரே டாட்டா குழுமம் அசுர வளர்ச்சி கண்டது.

டாட்டா குழுமம் இவரின் சொந்த நிறுவனமாக இருந்தாலும் சிறுசிறு பொறுப்புகளில் இருந்துள்ளார். இதனால் இவரால் வெற்றியின் ரகசியத்தை நன்கு அறிந்து கொள்ள முடிந்தது.



சர்வதேச சந்தையில் தங்கள் நிறுவனத்திற்கான வாய்ப்புகளைச் சரியான வகையில் கண்டுபிடித்தார். இவர் பல துறைகளிலும் தனது வர்த்தக நடவடிக்கையை வெற்றிகரமாக விரிவுபடுத்தினார். இதில் ஐடி துறை இன்றளவிலும் இந்தியாவில் முன்னணி நிறுவனங்களில் ஒன்றாக டாடா கன்சல்டன்சி சர்வீசஸ் (Tata Consultancy Services, டிசிஎசு) நிலைத்து வருகின்றது. இது இந்தியா மட்டுமல்லாது பல நாடுகளிலும் பல்லாயிரக்கணக்கான ஊழியர்களுக்கு வாழ்வளித்து வருகின்றது.

இந்நிறுவனம் ஆண்டுக்கு ஒரு பில்லியன் டொலருக்கு மேல் வருவாயை ஈட்டித் தருகின்றது. இது மட்டுமன்றி வாகன தயாரிப்பிலும் தனக்கென ஒரு இடத்தை கொண்டுள்ளது.

டாடா நிறுவனத்தின் உற்பத்திகளில் ஒன்றான நானோ கார்களை நடுத்தர குடும்பங்களின் கார் கனவுகளை நனவாக்கிக் கொள்ள, குறைந்த விலையில் தயாரித்து உள்ளது.இன்று சர்வதேச அளவில் இரும்புத் துறையிலும் தனக்கென ஒரு இடத்தை வகிக்கின்றது. இவ்வகையில் இந்தியாவின் பொருளாதார வளர்ச்சியிலும் இவரது பங்களிப்பு அளப்பரியது ஆகும்.ரத்தன் டாடா நவீன வளர்ச்சியை தனக்கு சாதகமாகக் கையிலெடுத்தார். நெல்கோ நிறுவனம் மூலம் செயற்கைக்கோள் சேவையை வழங்கத் தொடங்கினார். இந்தப் புதிய மாற்றம் நெல்கோ நிறுவனத்தை லாபகரமாக மாற்றியது.

குறுகிய நாட்களிலேயே வளர்ச்சியை அதிகரித்தது அந்நிறுவனம் நவீன தொழில் நுட்பங்களை பயன்படுத்தி வெற்றியடையும் டாடாவின் இந்த வியூகம் பலரையும் வியப்பில் ஆழ்த்தின. மும்பையில் நடந்த விருது விழாவில் இவருக்கு வாழ்நாள் சாதனையாளர் விருது வழங்கப்பட்டது.

தனது ஓய்வின் பின்பு டாடா நிறுவனத்தின் தலைவராக யாரை நியமிக்கலாம் என ரத்தன் டாடா தீவிர ஆலோசனை செய்தார். அப்போது டாடா நிறுவனத்தின் PCS தலைவராக இருந்த தமிழரான நடராஜன் சந்திரசேகரனின் நினைவு அவருக்கு வரவே இவரைவிட பொருத்தமான நபர் வேறு யாரும் கிடைக்க மாட்டார் எனக் கருதிய ரத்தன் டாடா அவரை டாடா நிறுவனத்தின் தலைவராக நியமித்தார்.

பாரம்பரிய டாடா குழுமத்தின் தலைவராக ஒரு தமிழர் நியமிக்கப்பட்டது அனைத்துத் தமிழர்களுக்கும் பெருமையான தருனமாகும். இளைய தலைமுறைக்கும் சாதிக்கத் துடிக்கும் நபர்களுக்கும் சக போட்டியாளர்களுக்குமே ரத்தன் டாடா முன்னுதாரமான நபராக திகழ்கிறார்.

பணக்காரர் பட்டியலில் இவரின் பெயர் இருக்கிறதோ இல்லையோ ஆனால் நிச்சயம் மனிதநேயர் என்ற பட்டியலில் அவரின் பெயர் நிச்சயம் இருக்கும் என்பதில் ஐயமில்லை.

Lohitha
I Year B

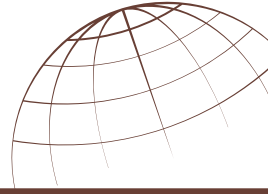




Fast Fashion's Environmental Impacts: Challenges and Sustainable Solutions



Maheshwari
III Year A



Fast fashion refers to the rapid production and distribution of inexpensive, trendy clothing in response to the latest fashion trends. It emphasizes quick turnover rates, affordability, and mass-produced styles to meet consumers' ever-changing demands. Fast fashion brands streamline the design-to-retail process, enabling them to bring new collections to market at an astonishing pace. While it has made fashion accessible to a broader audience, the fast fashion industry's environmental and social impacts are concerning. The relentless pursuit of low-cost clothing has led to resource depletion, pollution, and exploitative labor practices. Addressing these challenges requires a shift towards more sustainable and ethical practices in the fashion industry.



People are drawn to fast fashion because of its affordability, accessibility, and the ability to stay up-to-date with the latest trends. The quick turnover of styles allows consumers to frequently refresh their wardrobes without spending a fortune, making fashion accessible to a broader audience.



Impacts:

- Rapid production and consumption in fast fashion lead to excessive resource consumption, including water, energy, and raw materials.
- Vast amounts of discarded clothing contribute to landfills and waste pollution.
- Harmful chemicals used in textile production and dyeing processes contaminate air and water.
- Greenhouse gas emissions from production, transportation, and disposal contribute to climate change.
- Water-intensive practices like cotton cultivation worsen water scarcity in some regions.

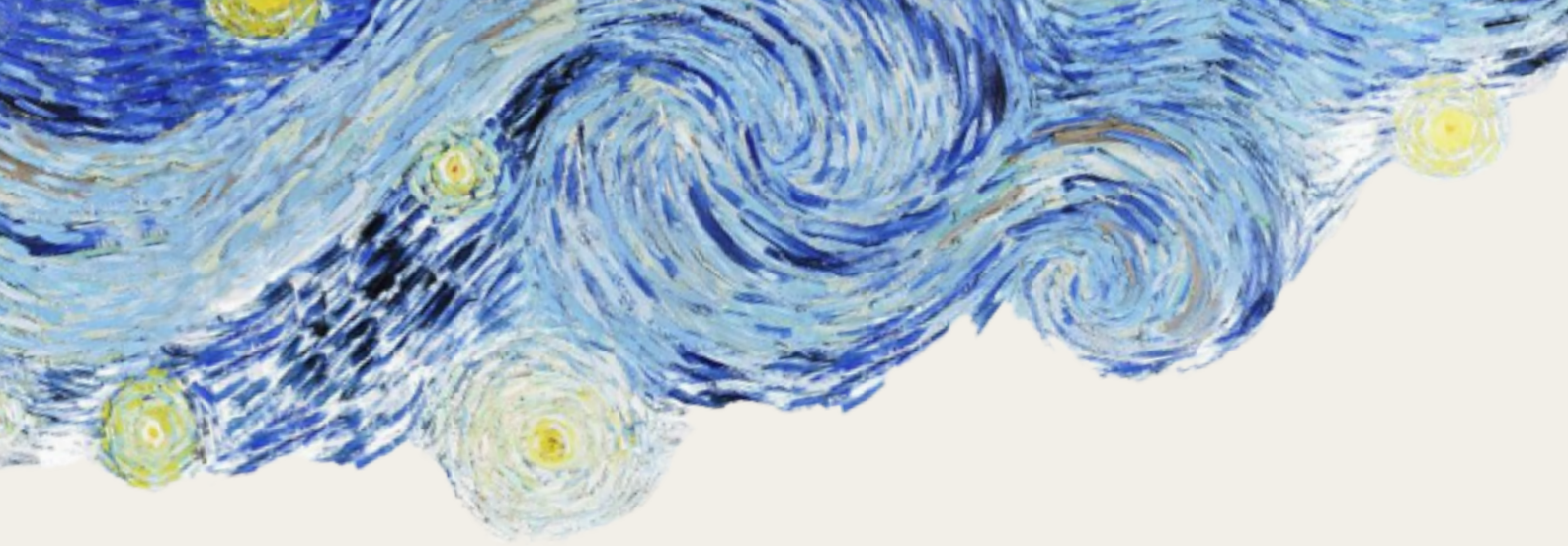
Remedies:

To address the negative impacts of fast fashion, several remedies can be implemented. Brands should prioritize sustainable and ethical practices, using eco-friendly materials and promoting recycling and upcycling of clothing. Consumers can opt for quality over quantity, supporting slow fashion brands and making mindful purchases. Governments can implement regulations and incentives for sustainable production and responsible waste management. Education and awareness campaigns can also encourage people to adopt a more responsible approach to fashion, reducing the overall demand for fast fashion products.

Conclusion:

its rapid production and consumption model have led to severe environmental consequences. From resource depletion and pollution to greenhouse gas emissions and water scarcity, the negative impacts are alarming. Brands must prioritize sustainable practices, consumers should adopt mindful consumption, and governments can play a crucial role by implementing regulations and supporting eco-friendly initiatives. By promoting ethical and environmentally conscious fashion, we can pave the way for a more sustainable and responsible industry, preserving our planet for future generations.





Creativity Unleashed

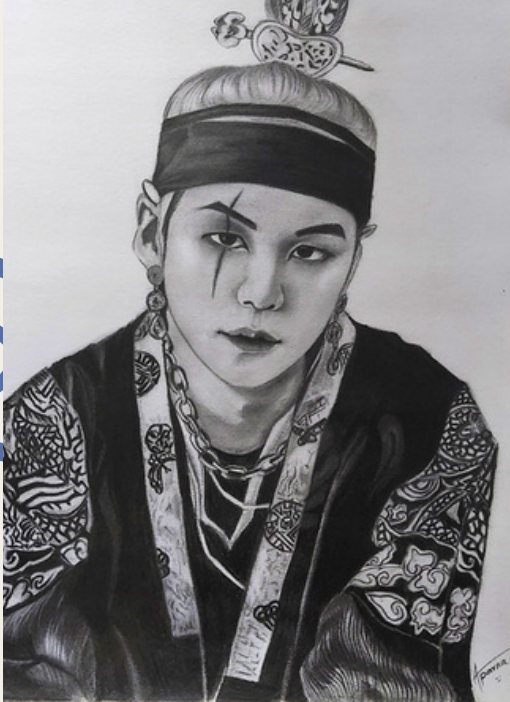
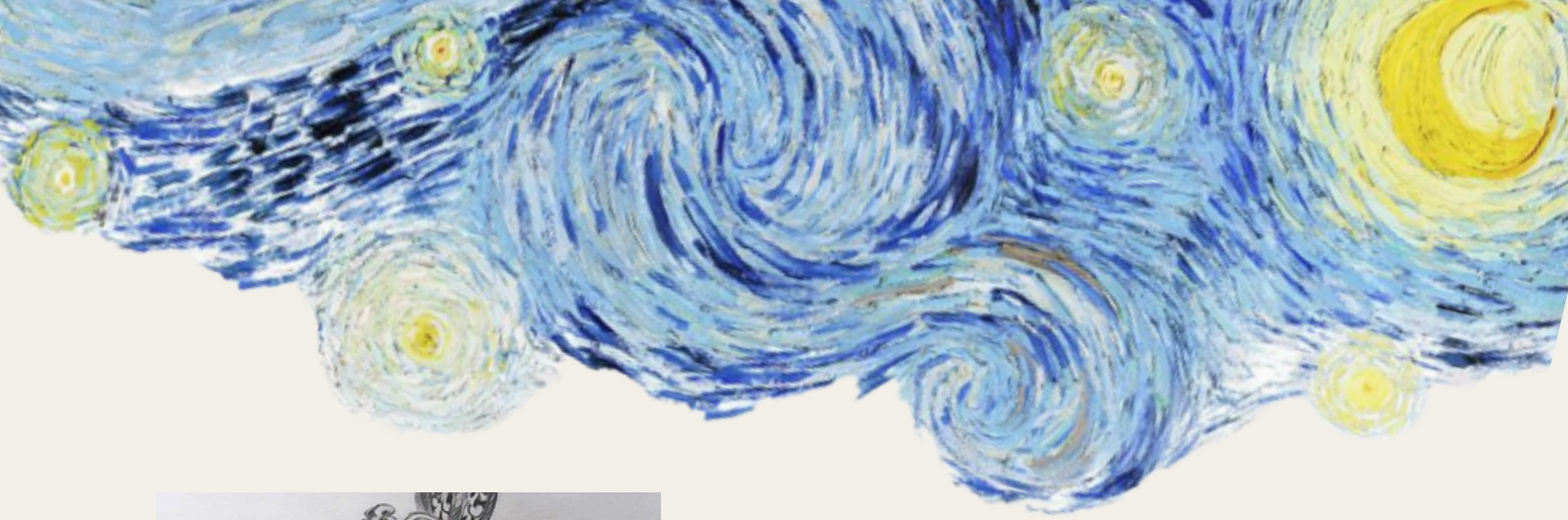
"Embrace the Canvas of Your Artistic Spirit"

Congratulations to all our talented students for their exceptional artistry and imaginative creations. Your artwork has captivated our hearts and minds, showcasing your unique perspectives and boundless creativity. Each stroke of the brush, every carefully sculpted form, and the poetic verses you've penned on paper are a testament to your artistic brilliance. Your dedication and passion have breathed life into colors and shapes, leaving a lasting impact on all who behold your masterpieces. We applaud your artistic spirit and the way you fearlessly express yourselves through art. Your talent shines brightly, and we look forward to witnessing the continued brilliance of your artistic journey. Well done!

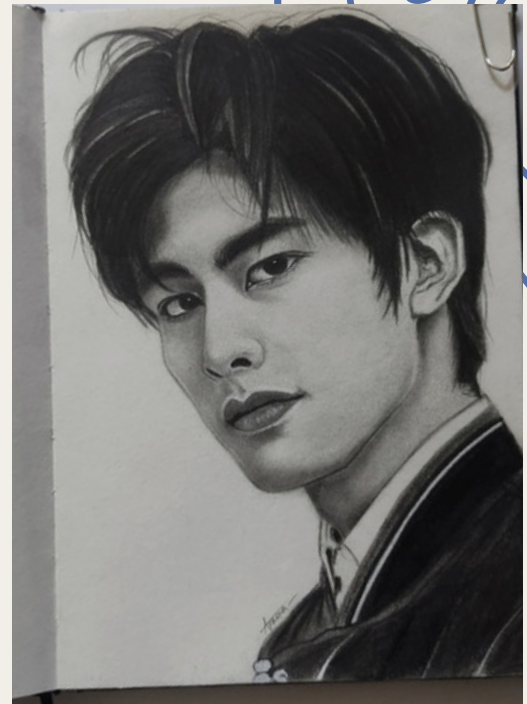


L R Himal
III Year - B





M Aparna
III Year - B



I am seeking. I am
striving. I am in it with
all my heart
-Vincent van Gogh



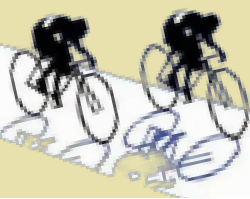
Gallery:

A Journey through frames

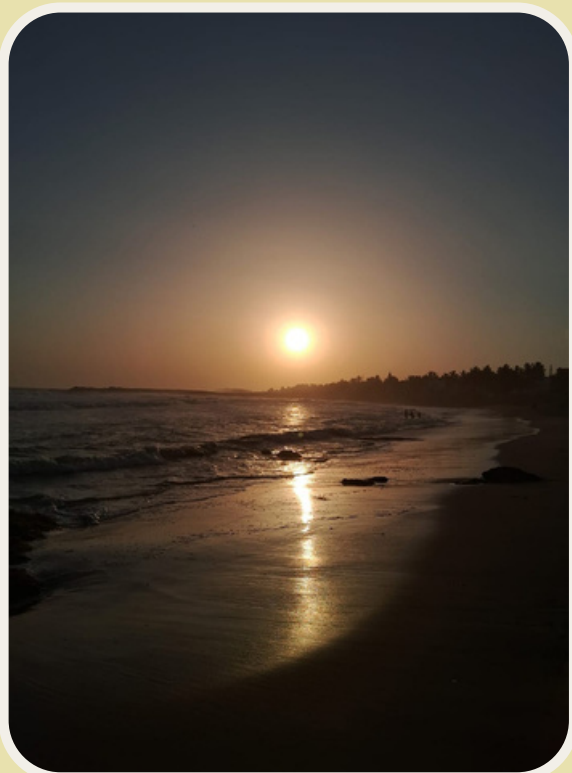
"Photographers are the magicians of the visual world, conjuring captivating stories with the click of a button. Armed with keen eyes and creative souls, they dance with light and shadows to paint breathtaking masterpieces. Through their lenses, they freeze moments in time, immortalizing laughter, tears, and tender gazes. With every frame, photographers reveal hidden emotions and bring the ordinary to life, making the extraordinary unforgettable. From bustling streets to serene landscapes, their artistry opens windows to new dimensions, inviting us to cherish the beauty that surrounds us. In a world where words may fall short, photographers speak the language of emotions, weaving a symphony of colors and emotions that resonate in the hearts of those who behold their work."



R Reethika
III Year - B



K Premkumar
III Year - B



Ajeetha S
II Year - A

Poem

*Education, a guiding light,
Illuminating minds, day and night,
In the corridors of knowledge, we tread,
With curiosity, our hearts are fed.*

*Through books and teachers' wise embrace,
We journey, seeking wisdom's grace,
In classrooms, we plant the seeds,
Of dreams and aspirations, it breeds.*

*From ABCs to complex arts,
Education shapes our minds and hearts,
With each lesson, we learn and grow,
In the pursuit of knowledge, we sow.*

*Empowering minds, breaking chains,
Education's key, freedom gains,
A beacon of hope, it paves the way,
To brighter futures, come what may.*

*With open minds, we seek to explore,
Education's treasures, forevermore,
For in the pursuit of learning's art,
We find the power to change the world's chart.*



*In the halls of Velammal, where knowledge ignites,
A symphony of learning, where brilliance takes flight,
In the Computer Science Department, a place of warmth and grace,
Professors and students come together, creating a vibrant space.*

*With a twinkle in their eyes, the professors inspire and guide,
With wisdom and patience, they stand by their side,
The students, eager and passionate, dive into the digital sea,
Exploring codes and algorithms, as they set their spirits free.*

*An industrial visit, a stepping stone,
For a generation of thinkers, yet unknown,
With each experience, they take away,
A world of inspiration, paving their way.*

*As the placements season arrives, excitement fills the air,
With companies knocking on the door, seeking talents rare,
With confidence and skills, the students stand tall,
Ready to embark on journeys, answering opportunity's call.*

*Velammal's Computer Science, a story of dreams and glee,
Where professors and students intertwine, creating a legacy,
In this human-like harmony of growth and innovation,
The future unfolds, filled with boundless fascination.*

Sonal L R
IV Year B



விடுகதைகள்



ஹர்ஷினி எம்.
III Year B

1

நூறு கிளிகளுக்கு ஒரே
வாய் அது என்ன?



2



மரமில்லை
கிளைகள் உண்டு
- அது என்ன?

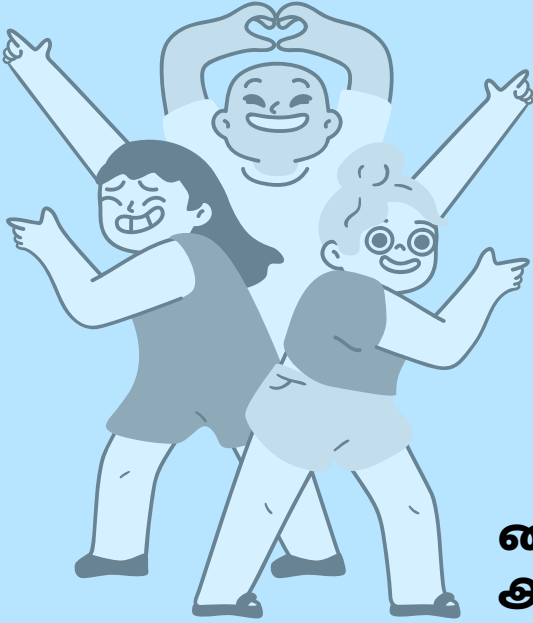
கொட்டும்,வலிக்காது
விஷமில்லை,சுகமாக
இருக்கும் - அது என்ன?

3



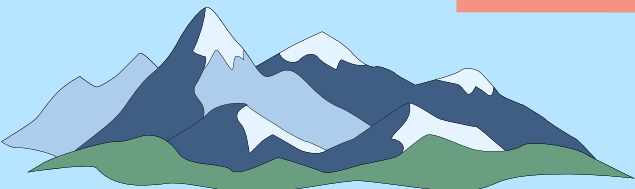
சத்தம் இல்லாமல்
மூடித் திறக்கும் கதவுகள் -
அது என்ன?

4

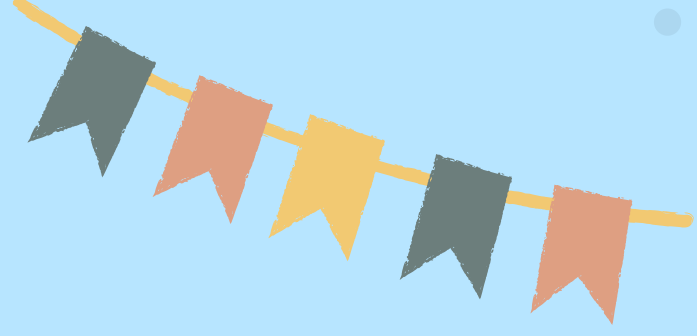


கைகால்இல்லை;
ஆனாலும் காடும் மலையும்
தாண்டுவான் - அவன் யார்?

5



ஆளில்லாதவீட்டிலும் அழகான
தோரணம் கட்டுவான் - அவன் யார்?



கால் படாத நிலத்தில் கரு இல்லாத
முட்டை - அது என்ன?



1.வாழைப்பு

2.மான்கொம்பு

3.அருவி நீர்

4.கண் இமைகள்

5.மேகம்

6. சிலந்தி

7.காளான்



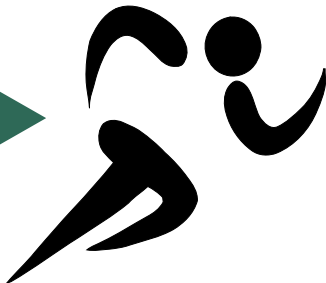
Athletic Achievements



Badminton Tournament
Zonal Level
Bronze Prize



K.SUDHARSHINI
SPORTS DAY
Volleyball
II Prize
kreta 23
TCE, Madurai
Coder's Den
III Prize



KRITHIGA GANESH
SPORTS DAY
II Prize
ZONAL
II Prize



SOURNAA SRI
SPORTS DAY
1500 metres
I Prize
400 metres
III Prize
4*100 relay
II Prize
Throwball
I Prize

VANITHA S
SPORTS DAY
Badminton (Doubles)
II Prize
Ball Badminton
I Prize



SHOBIKA R J
Table Tennis
MGR RACE COURSE STADIUM
KLN COLLEGE OF ENGINEERING
ANNA UNIVERSITY ZONAL
COLLEGE SPORTS DAY
VCET

T MEERA

200 metres

II Prize

100 metres

III Prize

4*100 relay

I Prize

Long Jump

II Prize

Tennis(Single)

I Prize

BasketBall

II Prize

VolleyBall

II Prize

Long Jump (Zonal)

III Prize



S.ANUNANDHANA

Badminton (doubles)

I Prize

Volleyball

II Prize

SPORTS DAY



LAVANYA J

SPORTS DAY

Volley ball

II Prize

Basketball

II Prize



DEVI SRI MONICA S

VolleyBall

II Prize

SPORTS DAY



S ABIRAME

VolleyBall

II Prize

SPORTS DAY



BALAJI

ROHAN KARTHIKEYAN

SURYAKANTH

HIMAL

Football

I Prize



SHOBIKA R J

TableTennis (Singles)

II Prize

TableTable(Doubles)

I Prize

MOHAMMED IMRAN KHAN

HANDBALL

II Prize



Sneha S J

Football

II Prize

Handball

I Prize

ThrowBall

I Prize



A photograph showing two table tennis paddles and two balls on a green table. One paddle has a red rubber surface and the other has a black rubber surface. Both paddles have yellow handles with black and red accents. Two white table tennis balls are positioned between the paddles. The background is a green table with a white line.

CM TROPHY

I Prize

[illegible]

Outstanding Projects



The Hand Spasticity Extender is a groundbreaking wearable rehabilitation device for people with hand spasticity. It helps improve hand functionality by providing support through a custom-fit 3D-printed glove, allowing the fingers to extend smoothly and easing the impact of spasticity over time.

S.R.Harshitha

III Year A

Award: Winner



A smart switch, also known as a smart light switch, is an advanced electrical device that allows you to remotely control and automate the lighting in your home or office. Unlike traditional light switches, smart switches can connect to your Wi-Fi network and be controlled through a mobile app, voice commands, or integrated with other smart home systems.

Award: Spirit of Innovation

Janani R, MegaSri ,Preetha S ,Reethika R ,Reshma S ,Sakthi V

III Year B



Placement Highlights

Mission of VCET;

Our aspirants are,

- Imparted with comprehensive, innovative and value based education.
- Exposed to technical, managerial and soft skill resources with emphasis on research and professionalism.
- Inculcated with the need for a disciplined, happy, married and peaceful life.

The individuals listed have achieved remarkable placement highlights in their respective careers, demonstrating their dedication, talent, and hard work. Our students have consistently excelled and secured noteworthy positions in their chosen fields. Their accomplishments include prestigious job placements, successful internships, and recognition for their outstanding contributions. Through their determination and skills, they have garnered accolades and made significant strides in their professional journeys. These placement highlights stand as a testament to their competence and potential, and it is evident that they will continue to make remarkable strides in their future endeavors.





Paarkavi Priya S
913119104065
Presidio
9.50 IPA



Shanmuga Priya M
913119104093
Presidio
9.50 LPA



Tavamani Raja Durai J
913119104112
Light & Wonder
8.75 LPA



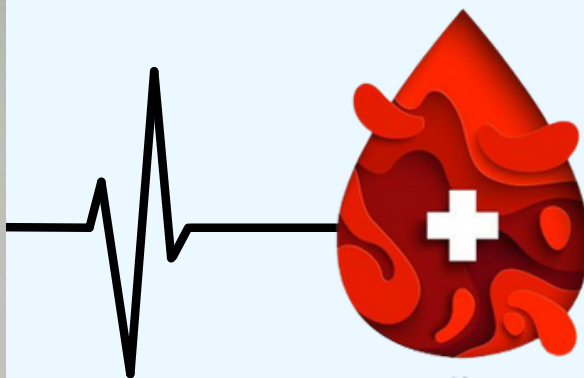


Blood Donor



Be a Lifesaver: Donate Blood, Save Lives!

In the gift of blood, lies the power to save lives. Embrace the hero within you and become a lifesaver today. Your generous donation can bring hope to those in need and be a beacon of light for someone's tomorrow. Join the noble cause of giving, for every drop counts, and together, we can make a difference that echoes through eternity. Donate blood - it's a gift that truly matters.



K.Premkumar
III Year - B

The Computer Science Department extends heartfelt gratitude for Mr K. Premkumar's noble act of donating blood. His selflessness and compassion have touched our hearts and made a significant impact on those in need. Thank you for being a shining example to all of us. Your gesture will always be cherished.



Industrial Visit



We embarked on an enlightening industrial visit to National Institute of Technology as a part of our ongoing efforts to provide our students with practical insights into real-world applications of our academic curriculum. The visit, organized by our computer science department, aimed to bridge the gap between theoretical knowledge and industry practices. The visit allowed our students to interact with industry experts and professionals, fostering a spirit of curiosity and innovation within them. We believe that experiences like these not only enrich our students' understanding but also inspire them to excel in their chosen fields and make meaningful contributions to the industry and society at large

National Institutes of Technology, Trichy II YEAR CSE



"Unveiling Innovation, Embracing Industry: Our Industrial Journey!"

College Sports Day



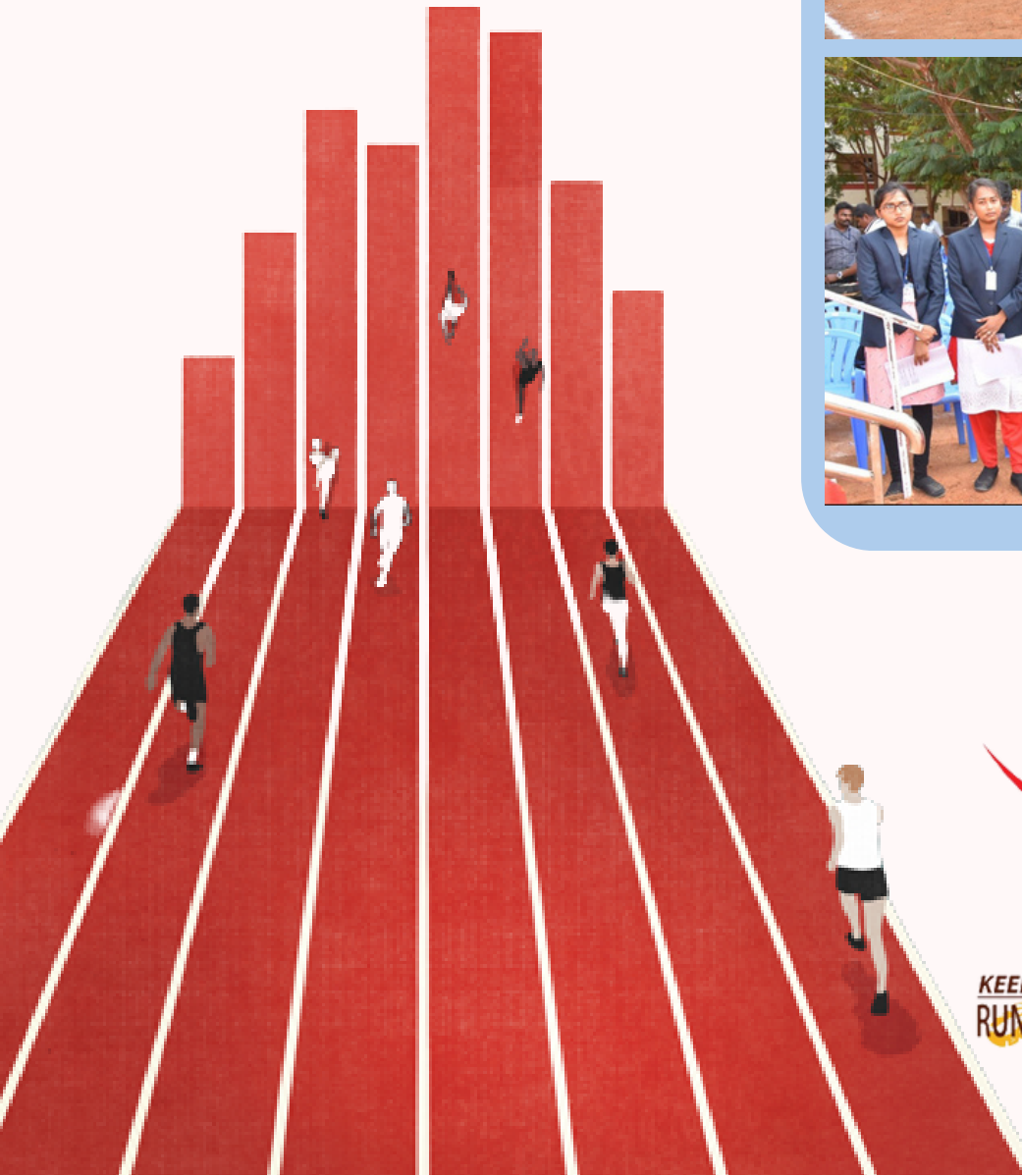
Velammal College of Engineering's annual sports day on March 24 was a vibrant celebration of sportsmanship and unity. The event began with an uplifting invocation and the hoisting of flags. The March Past showcased the discipline and pride of the participants from various departments. The arrival of the torch added an electrifying element, and the Olympic Torch was lit, symbolizing the beginning of a competitive and spirited event. Under the able guidance of the Chief Guest, Dr. A. Rengupandi, an esteemed Athletics Coach, the oath-taking ceremony affirmed the commitment of all athletes to fair play and dedication. Dr. P. Alli, Principal's welcome address set the tone for the day, followed by Dr. N. Suresh Kumar, Senior Principal's felicitations on the significance of sports in holistic development. Dr. M. Ponkumar, Physical Director highlighted athletes' achievements in the annual sports report. The 4X100 Mts Relay witnessed enthusiastic participation, and the prize distribution ceremony motivated all to excel. Dr. S. Vasuki, Dean(student affair) expressed gratitude, and the event concluded with the National Anthem, leaving attendees proud and inspired.





The Olympic torch is lit in college sports days to symbolize the spirit of sportsmanship, unity, and inspiration, mirroring the tradition of the Olympic Games. Lighting the torch signifies the beginning of the event and serves as a motivational reminder of the values and principles associated with sports and competition.

"Embrace the Challenge, Ignite the Passion: Sports Day 2023"





On April 6, 2023, Velammal College of Engineering and Technology, Madurai, exuberantly hosted its much-awaited 11th Culturals' Day, the dazzling "Odyssey 23." Anticipation filled the air as students, faculty, and guests eagerly gathered to witness a spectacular display of cultural brilliance. The event commenced with captivating Bharathanatyam performances, entralling the audience with the grace and beauty of this ancient Indian classical dance form, brilliantly executed by gifted girls. The stage ignited with fervor as electrifying folk and western dance routines synchronously moved to lively melodies, captivating everyone's spirits.





Girls Folk Team



Girls Western Team



Boys Western Team

"Odyssey 23" transcended being a mere performance showcase; it embodied a celebration of art, talent, and diversity, uniting individuals from diverse backgrounds in their shared love for culture and creativity. The event instilled confidence and camaraderie among participants, providing them with a platform to express themselves.

Applause reverberated throughout the campus, leaving indelible memories for all. Velammal College's 11th Culturals' Day became a testimony to cultural richness and the spirit of unity. It underscored the potential of arts to break barriers and build an inclusive community.

Even after the curtains fell, the cultural fervor lingered, inspiring students to explore their artistic talents further. The college eagerly anticipates future editions of this grand event, nurturing and promoting the brilliance within its vibrant student community. "Odyssey 23" was a resounding success, fostering a legacy of cultural celebration that will continue to thrive in the years to come.

ICACT 23

International Conference on Advanced Computing Technology



The Department of Computer Science and Engineering at Velammal College of Engineering and Technology, Madurai, hosted the prestigious International Conference on Advanced Computing Technology (ICACT'23) in association with the Institution Innovation Council and Computer Society of India. The event took place on Thursday, 20th April 2023, at 10.00 am in the Shri. K. Kamaraj A/C Auditorium.

ICACT'23 was a significant gathering of experts and enthusiasts from the computing field. Distinguished professionals and researchers shared their insights, knowledge, and advancements in the realm of advanced computing technology. The conference aimed to foster innovation, collaboration, and the exchange of ideas to drive the growth of the computing industry.



The inauguration ceremony witnessed the esteemed Chief Guest, Dr. Viji Chelliah, Senior Director of Certara Quantitative Systems Pharmacology (QSP) Division, based in Cambridge, United Kingdom. Her expertise in the field enriched the conference and inspired the attendees.

Additionally, Dr. Malathy Jawahar, Senior Principal Scientist at CSIR - Central Leather Research Institute, Chennai, graced the event as the Guest of Honour. Her notable contributions to the scientific community added immense value to the conference.



Dr. R. Deepalakshmi, Head of the Computer Science and Engineering Department and Convener of VCET, played a vital role in organizing and orchestrating the conference.



The event was also graced by the presence of the Chief Patron, Shri. M.V. Muthuramalingam, Chairman of Velammal Educational Trust, Madurai. His visionary leadership has been instrumental in fostering educational excellence.

Moreover, the conference was presided over by Dr. N. Suresh Kumar, Senior Principal at VCET, and Dr. P. Alli, the Principal of VCET, who offered their support and encouragement to make the event a grand success.



ICAICT'23 served as a platform for attendees to delve into the latest advancements in computing technology, network with industry experts, and explore potential avenues for research and collaboration. With the presence of esteemed speakers and distinguished guests, this event was an enriching experience for all participants.

E-BHOGI *Recycle for Future*

In a commendable initiative towards sustainability, Our **CSE** Department organized "**E-Bhogi**" an inspiring event aimed at encouraging students to actively participate in recycling waste in a more sustainable way. Spearheaded by the enthusiastic efforts of **S.Reshma** and **S.Sakthi Aishwarya**, 3rd-year CSE students, the event left a positive impact on our campus. Coordinated by the dedicated staff member, **Mrs. C.B. Selva Lakshmi**, the event took place on **3rd February 2023**. 'E-Bhogi' was a remarkable experience that brought our campus community together. Students and staff enthusiastically contributed old electronic devices, witnessing the positive impact of responsible e-waste disposal. The event not only cleared clutter but also raised awareness about the environmental hazards of improper e-waste handling. 'E-Bhogi' exemplified the power of collective action towards a greener future, leaving everyone inspired to continue their efforts in responsible e-waste management.



Harini Devi M, a 2nd-year student rewarded for leading the charge in e-waste collection. Her dedication inspires a greener campus and encourages responsible recycling practices. Congratulations Harini Devi, on your environmental initiative!!!

Kudos to the organizers and participants for making a positive impact on our campus!.



My Idea My India

"My Idea My India" is a paper contest event featuring Mr. A.K.B. Nawas Babu, Managing Director of S.A.Knitwears (Pvt) Limited, Madurai, as the Chief Guest, and Ms. Sharmila Devi Pounraj, Chair of CII Young Indians, Madurai, as the Guest of Honor. The event aims to encourage innovative ideas and solutions for the betterment of India. The contest will take place on 14th February 2023 at the Shri.K.Kamaraj Auditorium, VCET, Madurai. Participants will have the opportunity to present their ideas on various topics, guided by NLP Clarity Coach, Ms. Sharmila Devi Pounraj.





Navigating Knowledge Dissemination!!!

Unveiling the Power of Seminars and Webinars

Seminars and Webinars are not just events; they are transformative experiences that ignite curiosity, nurture creativity, and inspire change. We believe in the power of shared knowledge and the strength of collaborative learning. By

bringing together a diverse community of students, faculty, and experts, our seminars and webinars foster an environment where ideas flourish, innovations take root, and talents soar.



SEMINAR ON "WANNACRY RANSOMWARE ATTACKS IN CYBER SECURITY"

By- **BALAJI.R**

TECHNICAL LEAD & RECRUITER

IBM India Private Ltd

STAFF COORDINATORS

MR. G. BALAMURALIKRISHNAN AP/CSE

MR. KR. SENTHILMURUGAN AP/CSE



CURRENT CAREER OPPORTUNITIES FOR DATA SCIENCE AND MICRO SERVICES IN IT SECTOR

RESOURCE PERSON

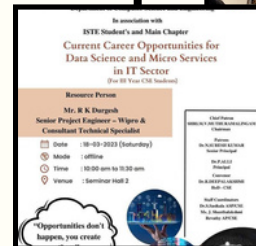
MR. R K DURGESH

SENIOR PROJECT ENGINEER - WIPRO & CONSULTANT TECHNICAL SPECIALIST

STAFF COORDINATORS

DR. S. SASIKALA ASP/CSE

MS. J. SHANTHALAKSHMI REVATHY AP/CSE



CURRENT INDUSTRY NEEDS AND INDUSTRY PREPAREDNESS!

SPEAKER: MR. T.HARISH GANAPATHY

CO-FOUNDER – MAVENCART PRODUCT STUDIO
MADURAI

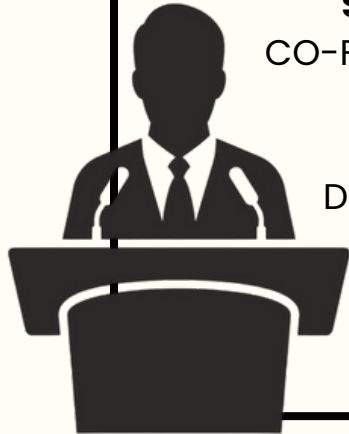
COORDINATOR

Dr.G VINOTH CHAKKARAVARTHY AP/CSE

COMMITTEE MEMBERS

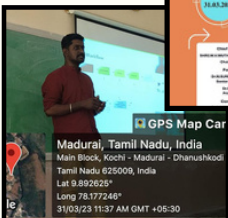
Mr.K.AZARUDEEN AP/CSE

Mrs.C.B SELVALAKSHMI AP/CSE



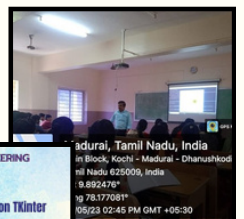
INNOVATIVE DATA SCIENCE
PROJECT DEVELOPMENT

SPEAKER: MR. LOGESH KUMAR
DATA SCIENTIST,
TATA CONSULTANCY SERVICES
CHENNAI.



SEMINAR ON WINDOWS APPLICATION USING
PYTHON TKINTER AND MYSQL DATABASE

SPEAKER: MR. A.M.SASIKUMAR
SOFTWARE TRAINER AND DEVELOPER
SSI EDUCATION
MADURAI.



Exploring Possibilities

A Glimpse into the Captivating Contest...

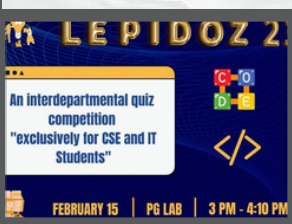


Amidst the digital revolution's crescendo, our college's technical competition stands tall as a beacon of innovation. Bringing together tech-savvy minds, this electrifying event ignites the passion for creativity and problem-solving. A captivating fusion of ideas and coding prowess, it shapes the future of technology in our world. Witness the brilliance of our students as they compete and collaborate, leaving a lasting impact on the ever-evolving tech landscape.

Our **CSE Department** conducted an electrifying **Java Programming Contest** for 2nd and 3rd-year students at the UG Lab III on **31.03.2023**. With two rounds of intense coding challenges, participants showcased their Java expertise and problem-solving skills. The event was a testament to the tech-savvy talent within our college, fostering a spirit of healthy competition and innovation.



"**Lepidoz 23**", a Interdepartmental technical quiz competition, exclusively for CSE and IT students, unfolded with a flurry of intellect and excitement. Coordinated by the skilled staff members,

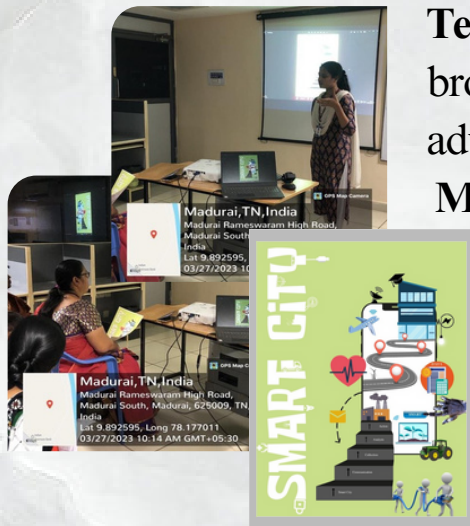


Mrs. K. Santha Sheela and Mrs. C. B. Selvalakshmi, the event took place at the PG lab on **15.2.2023**. The quiz witnessed a battle of wits and tech knowledge, uniting participants in a quest for victory.

A resounding success, Lepidoz left a mark as a testament to the brilliance and camaraderie of our tech enthusiasts.

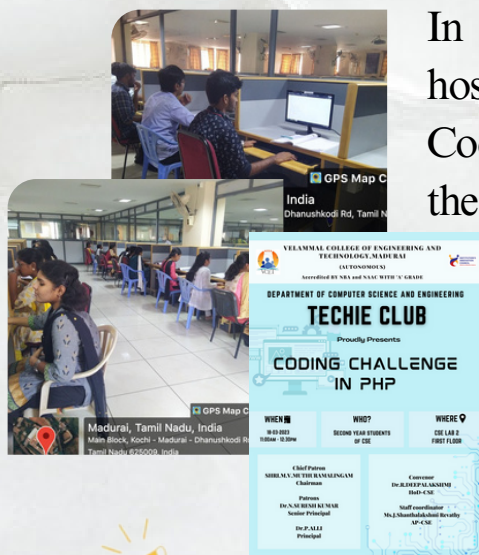
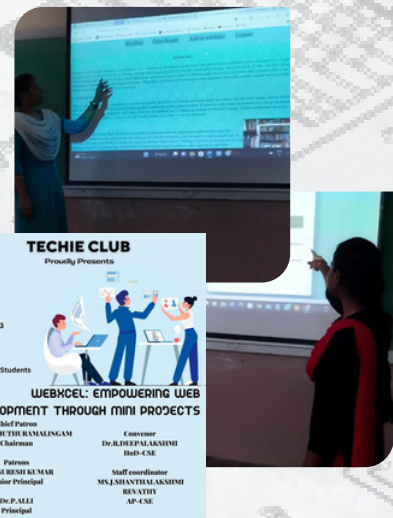
Our **CSE department's project presentation** showcased a dynamic fusion of hardware and software brilliance, held on **15.3.2023**. Coordinated by the esteemed **Dr. T. Grace Shalini**, the event mesmerized with innovative creations and cutting-edge technology. Students exhibited their tech prowess, leaving a lasting impact on the college's tech community. A celebration of creativity and knowledge exchange, the presentation event was a resounding success.





Techie Club's captivating **poster presentation** on **"Smart City"** brought CSE students together to envision a technologically advanced urban future. Coordinated by skilled staff members, **Mrs. S. Padma Devi and Ms. J. Shanthalakshmi Revathy**, the event held on **27.3.2023** showcased innovative ideas and solutions for sustainable urban development. The students' creative brilliance, coupled with the expertise of the staff, made it a resounding success.

In a dynamic display of expertise, the **Techie Club** hosted **"WebXcel: Empowering Web Development through Mini Projects"** exclusively for 2nd-year CSE students. Coordinated by the proficient staff, **Ms. J. Shanthalakshmi and Revathy**, the event took place on **2nd May 2023**. With a focus on hands-on learning, students delved into web development, unleashing their potential through innovative mini projects. The captivating event left an indelible mark, inspiring the next generation of web developers in our college community.



In an exhilarating showcase of coding finesse, the **Techie Club** hosted a **coding challenge in PHP** for 2nd-year CSE students. Coordinated by the proficient staff, **Ms. J. Shanthalakshmi Revathy**, the event took place on **18th March 2023**. Students delved into the realm of PHP programming, unveiling their talents and problem-solving skills. The challenge left a lasting impression, fostering camaraderie among participants and further solidifying the **Techie Club's** commitment to nurturing technical excellence.

*In the world of technology, anything is possible
with a curious mind and a determined spirit.*

- Emily Chang



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