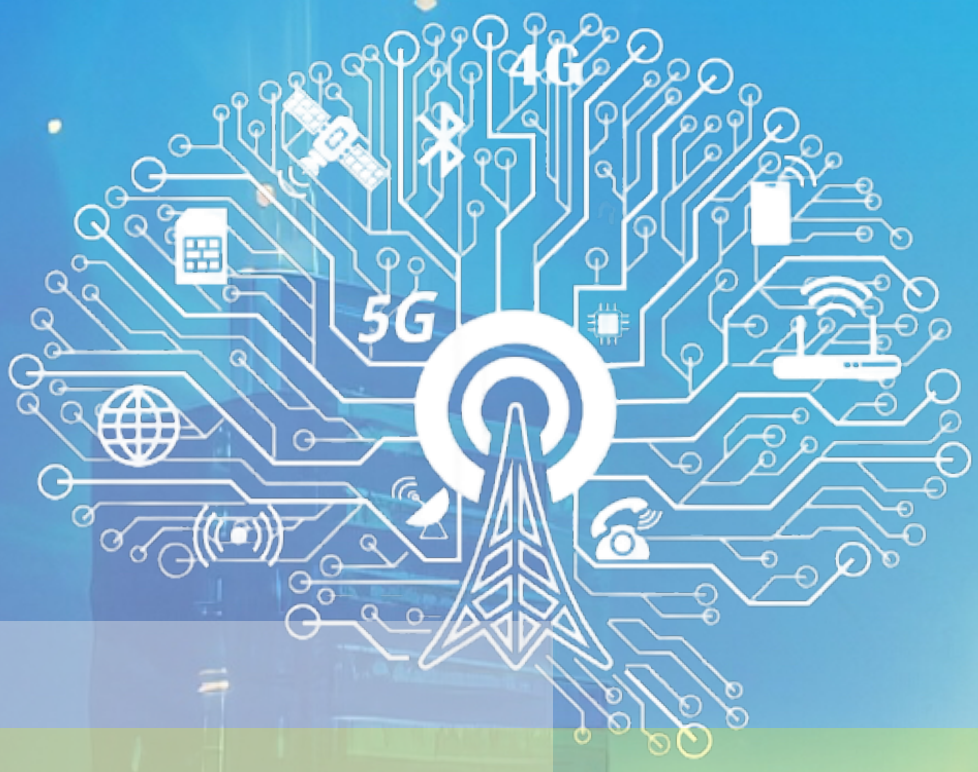
NATIONAL EDUCATION SOCIETY®

JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING

SHIVAMOGGA 577204

IETE Students Forum (ISF)

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING



ANNUAL MAGAZINE

TELEGMA

Connecting People...

2023

Electronics and telecommunications engineering is a branch of electrical engineering that focuses on designing and developing electronic technology products. Electrical engineers work in many sectors, including healthcare, media and communications and software technology. Understanding the opportunities this professional discipline offers can help you de-

Mr. AMARAPPA .S **ME.(Ph.D.)**

Associate Professor,

ETE,JNNCE,Shimogga.

Dear Professor Amarappa,

On behalf of the faculty, staff, and students of Jawaharlal Nehru New College of Engineering, I would like to extend our sincere congratulations on your retirement.

Your many years of service to the college have been invaluable. As a former HOD and professor, you have played a key role in shaping the college into the institution it is today. Your dedication to teaching and research has inspired generations of students, and your leadership has helped to create a vibrant and supportive academic community.

We are grateful for your many contributions to the college, and we wish you all the best in your retirement. We know that you will continue to be a valuable asset to the engineering community, and we look forward to hearing about your future endeavours.

EDITORIAL BOARD

Staff Advisor

Mr.Shashi Kiran.S

Asst.Professor,ETE.

EDITORS

Jeevan S R

Sudarshan TB Ramana

Sannidhi T N

Afham Ali Beig

Subhash Chandra

MESSAGE FROM HOD

Dear Students, Faculty, and Esteemed Members of J. N. N. College of Engineering,

It is with great pleasure and a sense of pride that I extend my heartfelt gratitude and appreciation to each and every one of you. As the Head of the Electronic and Telecommunication Branch, I had the privilege of witnessing the incredible growth, dedication, and achievements that have shaped our journey at JNNCE.

Dear faculty members, your unwavering commitment to excellence in education are the driving force behind our success. Your passion for imparting knowledge, guiding through challenges, and nurturing the talents has been instrumental in shaping the future of the students. Your dedication to research and innovation continues to inspire all, creating an atmosphere of intellectual curiosity and exploration. Good appreciation for your mentorship and support, which enabled the students to face the ever-evolving technological landscape with confidence.

Dear students, your relentless pursuit of knowledge, passion for learning, and eagerness to explore new frontiers have been truly inspiring. Your dedication to academic excellence, coupled with your involvement in extracurricular activities, has helped create a vibrant and inclusive environment in the department. Your innovative projects, research initiatives, and remarkable achievements have made us proud, reflecting the true spirit of JNNCE. As you venture into the world beyond our college walls, we have no doubt that you will continue to make significant contributions to the field of electronic and telecommunication engineering.

Lastly, I would like to express my deepest appreciation for the unwavering support and encouragement we receive from our institution. JNNCE has been our home, our sanctuary of knowledge, where students are nurtured, challenged, and groomed to become successful professionals. The infrastructure, well established laboratories, and industry collaborations have provided an ideal platform to hone the skills and transform the dreams into reality. Institution vision on holistic development, character building, and fostering a sense of social responsibility has prepared students to become well-rounded individuals poised to make a positive impact in society.

As we gather our memories and achievements in this annual magazine, let us reflect on the remarkable journey we have undertaken together. It is a testament to our collective spirit, resilience, and passion for excellence. I extend my deepest gratitude to everyone who has contributed to achieve success, and I eagerly anticipate the future accomplishments that await us.

Wishing you all continued success and fulfilment in all your endeavours.

Warm regards,

Dr. Surendra S

HOD, Dept. of ETE

J. N. N. College of Engineering

Shimoga

MESSAGE FROM TELIGMA COORDINATOR

Dear students and esteemed colleagues,

It brings me great pleasure to address all of you through our esteemed branch's Annual Magazine. As we embark on this literary journey, I want to take a moment to reflect on the incredible strides we have made together and to inspire you for the exciting future that lies ahead.

Firstly, to my dear students, you are the heart and soul of our department. Your unwavering dedication, thirst for knowledge, and passion for electronics and telecommunication sciences have made us immensely proud. I have witnessed your growth, from curious freshmen to confident seniors, and I am truly in awe of your achievements.

Our field of study, electronics and telecommunication, holds immense potential for shaping the world around us. As future engineers, you have the power to revolutionize communication, connectivity, and information exchange. The ever-evolving technologies present both challenges and opportunities, and it is our duty to equip ourselves with the necessary skills to adapt, innovate, and lead.

The key to success lies in nurturing a curious mind, so never hesitate to ask questions, seek guidance from your professors and mentors, and collaborate with your fellow classmates. The beauty of our field lies in the fact that teamwork and collaboration are integral to achieving breakthroughs and overcoming complex challenges.

To my esteemed colleagues, you are the pillars of wisdom and expertise that shape our department. Your commitment to excellence, relentless pursuit of knowledge, and dedication to our students' growth are truly commendable. Each day, you inspire us with your research, publications, and innovative teaching methodologies. Let us continue to encourage interdisciplinary collaborations and facilitate an environment that promotes continuous learning and development.

As we celebrate the accomplishments of our department, let us also reflect on the importance of ethical and sustainable practices in our work. With great power comes great responsibility, and we must ensure that the advancements we make serve the betterment of society and the environment.

In conclusion, my dear students and colleagues, I urge you to embrace this unique period of learning and growth. Seize every opportunity, take risks, and push the boundaries of your abilities. Remember, success is not defined solely by grades or accolades, but by the positive impact you create in the world.

Together, let us continue to write the story of excellence and innovation in the Electronics and Telecommunication Department. I have no doubt that each one of you possesses the potential to make a significant mark on the world.

Wishing you all a wonderful year ahead filled with countless achievements and limitless possibilities.

Happy Reading ……..

With warm regards,

Shashikiran S

Asst. Professor, Dept. of ETE

JNN College of Engineering

Shimoga

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Department vision:

To emerge as a center of academic excellence in the field of telecommunication engineering to impart quality education by keeping pace with rapidly changing technologies and industry requirements to create technical manpower of global standard for the betterment of industry and society.

Department mission:

M1 - Impart knowledge then skills required for the latest and advanced engineering & technological processes in the field of Telecommunication.

M2 - Instill creative thinking through innovative and team-based methods to develop employability, entrepreneurial traits and research capability among the students.

M3 - Provide value-based technical education empowering the students with ethical and humane values addressing the needs of industries and the society.

CHATGPT

- Jeevan S R, 6th Sem

- ChatGPT is a language model developed by OpenAI. It is based on the GPT (Generative Pre-trained Transformer) architecture, specifically the GPT-3.5 variant. GPT-3.5 is a highly advanced model that has been trained on a massive amount of text data from the internet, allowing it to generate human-like responses to text prompts.
- The model is called "ChatGPT" because it is specifically designed for conversational interactions. It has been fine-tuned to understand and generate natural language responses, making it suitable for a wide range of conversational tasks.
- The underlying architecture of ChatGPT is a transformer neural network. Transformers are deep learning models that excel at processing sequential data, such as text. They are composed of multiple layers of self-attention mechanisms and feed-forward neural networks. This architecture enables ChatGPT to capture complex patterns and dependencies in language, resulting in coherent and contextually relevant responses.
- During training, ChatGPT is exposed to a vast corpus of text data from the internet. This pre-training phase helps the model learn grammar, facts, reasoning abilities, and even some forms of commonsense knowledge. It learns to predict the next word in a sentence based on the preceding words, which allows it to understand the relationships between different parts of a text.
- After pre-training, ChatGPT undergoes a fine-tuning process on specific tasks. This involves training it on custom datasets created by OpenAI, which are generated with the help of human reviewers following guidelines provided by OpenAI. These guidelines ensure that the model adheres to certain ethical and safety standards while producing responses.
- ChatGPT has a wide range of applications, including answering questions, providing explanations, generating conversational responses, assisting with language translation, and more. However, it's important to note that ChatGPT is an AI language model and not a human. While it can generate impressive and contextually relevant responses, it may occasionally produce incorrect or nonsensical answers.

CLOUD COMPUTING

-A M Mallikarjun, 6th Sem

- Cloud computing is the delivery of computing services—including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud"). Instead of buying, building and running computing infrastructures, like networks, servers, storage, and applications, cloud computing allows companies to consume these on-demand services as a utility—just like electricity—paying only for what they use.

  Cloud computing offers several advantages over traditional IT solutions, including:
- **Cost savings:** Cloud computing can help businesses save money on IT costs by eliminating the need to purchase and maintain their own hardware and software.
- **Scalability:** Cloud computing is scalable, so businesses can easily add or remove resources as needed. This can help businesses save money on IT costs during periods of low demand and avoid overpaying for resources during periods of high demand.
- **Security:** Cloud computing providers offer a variety of security features to protect businesses' data. This can help businesses reduce the risk of data breaches and other security incidents.

  There are three main types of cloud computing services:
- **Infrastructure as a Service (IaaS):** IaaS provides businesses with access to computing resources, such as servers, storage, and networking.
- **Platform as a Service (PaaS):** PaaS provides businesses with a platform for developing, testing, and deploying applications.
- **Software as a Service (SaaS):** SaaS provides businesses with access to software applications that are hosted in the cloud.
- Cloud computing is a rapidly growing market, and it is expected to continue to grow in the coming years. Cloud computing is a powerful tool that can help businesses save money, improve agility, and increase security.

  Here are some specific examples of how cloud computing is being used today:
- **Email**: Many businesses use cloud-based email services, such as Gmail and Office 365. These services offer a number of advantages over traditional email servers, including increased storage capacity, better spam filtering, and more robust security features.
- **Business applications**: There are a number of cloud-based business applications that can help businesses to improve their operations. These applications can be used for tasks such as customer relationship management (CRM), and accounting.
  - Cloud computing is a powerful tool that can help businesses of all sizes to improve their operations. It is a rapidly growing market, and it is expected to continue to grow in the coming years. If you are looking for ways to save money, improve agility, and increase security, then cloud computing may be a good option for your business.

HOW 5G IS CHANGING THE WAY WE USE ELECTR0NICS

-Afham Ali Beig, 6th Sem

- 5G is the fifth generation of cellular network technology. It is designed to provide faster speeds, lower latency, and increased capacity than previous generations of cellular networks. 5G is expected to have a major impact on the way we use electronics.
- One of the most significant ways that 5G is changing the way we use electronics is by enabling new applications that require high-speed data transfer. For example, 5G is expected to be used to power the next generation of virtual reality and augmented reality applications. These applications require very high-speed data transfer in order to provide a seamless user experience.
- Another way that 5G is changing the way we use electronics is by enabling new applications that require low latency. Low latency is important for applications that require real-time communication, such as self-driving cars and remote surgery. 5G's low latency will make it possible for these applications to be used in a wider range of settings.
- Finally, 5G is increasing the capacity of cellular networks. This means that more devices will be able to connect to the network at the same time without experiencing congestion. This will be especially important for applications that require a large number of connected devices, such as the Internet of Things (IoT).
- Overall, 5G is expected to have a major impact on the way we use electronics. It will enable new applications, improve the performance of existing applications, and make it possible for more devices to connect to the network. 5G is the future of cellular network technology, and it is already starting to change the way we live and work.

Here are some specific examples of how 5G is changing the way we use electronics:

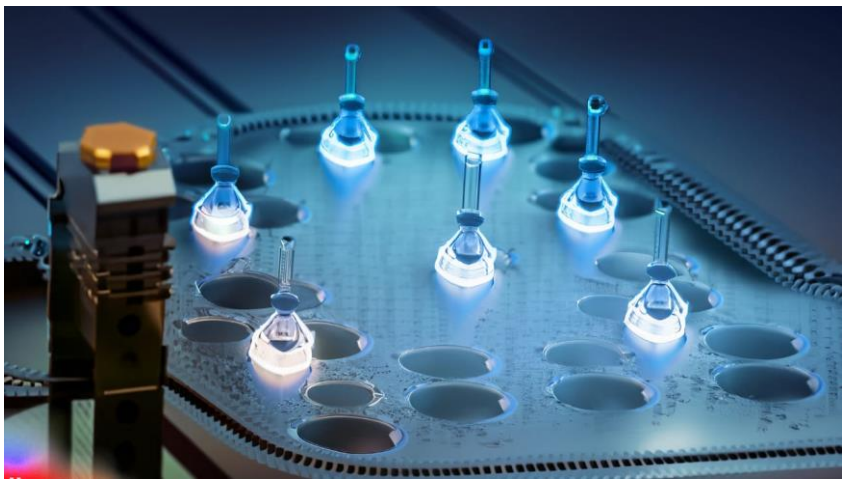
- **Virtual reality and augmented reality**
  5G is expected to be used to power the next generation of virtual reality and augmented reality applications. These applications require very high-speed data transfer in order to provide a seamless user experience. For example, 5G could be used to create virtual reality experiences that are so realistic that it feels like you are actually there. Or, 5G could be used to create augmented reality applications that overlay digital information onto the real world.
- **The Internet of Things (IoT)**
  5G is expected to increase the capacity of cellular networks. This means that more devices will be able to connect to the network at the same time without experiencing congestion. This will be especially important for applications that require a large number of connected devices, such as the Internet of Things (IoT). The IoT is a network of physical devices that are connected to the internet. These devices can collect and exchange data without human intervention. 5G will make it possible for more devices to be connected to the IoT, which will lead to new applications and services.
- **Self-driving cars**
  5G is expected to be used to power the next generation of self-driving cars. Self-driving cars require real-time communication with other vehicles, infrastructure, and pedestrians in order to navigate safely. 5G's low latency will make it possible for self-driving cars to communicate in real time, which is essential for safe operation.
- These are just a few examples of how 5G is changing the way we use electronics. 5G is a new technology with a lot of potential. It is still in its early stages of development, but it is already starting to change the way we live and work.

FUTURE OF VIRTUAL REALITY IN TELECOMMUNICATION

- Nischitha S R, 6th Sem

- The future of virtual reality (VR) in telecommunications is promising, as VR technology continues to advance and telecommunications networks become more capable. Here are some potential developments and opportunities for VR in the telecommunication industry:
- **Immersive Communication:** VR can transform telecommunications by enabling immersive and realistic communication experiences. Users can engage in virtual meetings, conferences, or social interactions, feeling as if they are physically present in the same environment regardless of their geographical locations. This can enhance collaboration, remote work, and social connections.
- **Virtual Teleconferencing:** VR can revolutionize teleconferencing by providing a sense of presence and spatial awareness. Instead of traditional video calls, participants can meet in virtual environments, interact with realistic avatars, and share content as if they were in the same physical space. This immersive communication can lead to more engaging and productive meetings.
- **Virtual Training and Education:** Telecommunications companies can leverage VR for training employees or educating customers. VR simulations and interactive experiences can offer realistic and hands-on training in various fields, such as network maintenance, customer support, or equipment handling. VR can also provide immersive educational content, enhancing distance learning and professional development.
- **Virtual Reality Content Streaming:** Telecommunication networks can support as the streaming of VR content, including live events, concerts, sports, or movies. Users can experience these events in a more immersive and engaging way, creating new revenue streams for telecom companies and content providers.
- **VR Gaming and Entertainment:** Telecommunication companies can partner with VR gaming and entertainment providers to offer high-quality VR experiences to their customers. This collaboration can involve providing low-latency networks, dedicated VR content platforms, and partnerships with VR headset manufacturers. This integration of VR into the entertainment ecosystem can drive user engagement and customer loyalty.
- It's important to note that the successful integration of VR in telecommunications depends on factors such as the availability of affordable and high-quality VR hardware, network infrastructure capable of supporting high-bandwidth requirements, and the development of compelling VR content and applications. Overcoming challenges related to latency, data transfer speeds, will be cruicial.

NANOTECHNOLOGY IN THE FIELD OF TELECOMMUNICATION



-Dhanya,6th Sem

- Nanotechnology is the manipulation of matter on the atomic and molecular scale. Nanotechnology is already being used in a variety of applications, including electronics, medicine, and manufacturing. Nanotechnology is having a major impact on the field of telecommunication. Nanotechnology is being used to create new types of sensors, actuators, and materials that can be used to improve the performance of communication systems. The most important applications of nanotechnology in telecommunication nanoantenna and nano-displays.
- Nano-antennas are much smaller and more efficient than traditional antennas. This makes them ideal for use in mobile devices and other applications where space is limited and are also being used to create new types of radar systems that can be used to detect objects at long distances. Nano-displays are much smaller and more energy-efficient than traditional displays. This makes them ideal for use in mobile devices and other applications where size and power consumption are important. Nanotechnology is being used to create implantable devices that can be used to monitor a patient's health or to deliver drugs. Nanotechnology is also being used to create wearable devices that can be used to communicate with other devices or to access information.
- The future of nanotechnology in telecommunication is very promising. Nanotechnology has the potential to revolutionize the way we communicate. Nanotechnology can be used to create new types of communication systems that are more efficient, secure, and user-friendly.

  Potential applications of nanotechnology in telecommunication in the future:

- **Self-healing networks:** This would make networks more reliable and less likely to go down as it repair themselves automatically.
- **Quantum communication:** This would allow us to transmit information much faster and with greater security.
- **Brain Computer Interface:** This would revolutionize the way we interact with computers and other devices as it allow us to control devices with our thoughts.
- **Nanorobots:** Nanorobots are tiny robots that can be programmed to perform specific tasks. Nanorobots could be used to repair damaged tissues, deliver drugs, or even perform surgery.
- These are just a few of the potential applications of nanotechnology in telecommunication. Nanotechnology has the potential to revolutionize the way we communicate and interact with the world around us.

STARLINK INTERNET

-Jeevan N, 4th Sem

- Starlink is the name of a satellite network developed by the private spaceflight company SpaceX to provide low-cost internet to remote locations. SpaceX eventually hopes to have as many as 42,000 satellites in this so-called mega constellation. It is a satellite internet constellation operated by SpaceX. It provides satellite Internet access coverage to 29 countries where its use has been licensed, and aims for global coverage. Starlink consists of over 2,000 mass-produced small satellites in low Earth orbit (LEO), which communicate with designated ground transceivers.
- Starlink is a satellite internet constellation being constructed by SpaceX providing satellite Internet access started in 2015 by American entrepreneur Elon Musk. The constellation will consist of thousands of mass-produced small satellites in Low Earth Orbit (LEO), working in combination with ground transceivers. Each Starlink satellite is compactly designed and weighs about 260kg.At the current time, 2000 Starlink satellites are operating at 550 km above the earth's surface in LEO.
- Internet access provided through communication satellite. Systems use Satellites in geostationary orbit. This orbit is located at a height of 35,786 km over the Earth's surface, directly above the Equator. Theoretical data transfers at the speed of light.

Involves 3 satellite dishes; one at the internet service providers hub, one in space and one attached

to your property. In addition to the satellite dish, you also need a modem and cables running to and from the dish to your modem.

- The satellite internet constellation (which is also called as Starlink) that beams internet access down to Earth. The ground-based hardware needed to connect to Starlink's satellite internet service. It receives the signal and passes the bandwidth on to your router. There's a Starlink app for Android and iOS that features augmented reality to help customers pick the best location to place their receivers at home. The subscription fee that SpaceX charges for you to use its internet (Estimated cost starts from $99/month).
- Current internet satellites orbited around 1100 kilometers (~621 miles) above the earth which is far away. So, the coverage area of satellite is great, but the distance also results in a time delay between sending and receiving data. Starlink satellites orbit significantly closer at around 550 kilometers (~341 miles) above the earth's surface. This means that they triangulate data much faster with minimal delay but also means that their ncoverage area is far smaller. So, we need a load more of them to build up a comprehensive network that offers reliable coverage.

TECHNOLOGIES USED IN MAHABHARATHA

- Sannidhi T N,6th Sem
- Sudarshan T B R,6th Sem

Mahabharata is one of the most Mysterious and curious historical event from Indian culture of Vedas. Number of things from era of Mahabharata are still being studied and researched by scientists across the world.

There are so many technical things taken place during this period which we are using now as a part of our lives.

Some of them are:

Live Telecast (Concept of Television):

If it is about live cricket match, no one wants to miss a single beat. Many of you know that the telecast of live match is still running few seconds to few minutes behind than the actual game at the stadium.

Now remember the famous scene from Mahabharata where everything happening at the battle field is described by Sanjaya to King Dhritarashtra.

Sanjaya was not only able to see everything happening at kurukshetra but he could also listen the conversations of those people. It is closely related to Live Telecast.

Test Tube Baby:

Birth of 100 Kauravas is always been part of Curiosity. But it is said that they were never born through their mother (Gandhari) directly. All of them were kept somewhere outside before they born.

We can relate this to the concept of Test Tube Baby where the unborn baby is kept safely in a tube outside the mother's belly.

Surrogate Mother:

This concept was also used during period of Mahabharata.

Everyone knows the story of Lord Krishna's birth. His parents(Devaki & Vasudeva.) were prisoners of his villain uncle King Kansa.

When he was told he will be killed by his nephew from Devaki, he killed almost every child of Devaki.

For one more time she got pregnant.But Mysteriously her unborn baby was transferred to her sibling's Uterus. The baby was nothing but Balirama (Krishna's elder brother.)

After that Krishna was born in prison. He was then safely placed at Gokul by his Father where his aunt (Yashoda) and uncle(Nanda) were living.

Balirama's Mother was Rohini. She was wife of Nanda's elder brother. Hence krishna and Balirama lived as cousins while both were actually brothers from same mother.

Telescopes:

Use of Telescope during the war in Mahabharata by Shikandi (elder sister of Draupadi) at Panchala, to pin point the position of Pandavas and Kauravas from the center of Chakravyuha.

3 D Floor Finishes (Tiles):

Remember Draupadi insulted Duryodhana calling him blind?

When Pandavas created their marvelous masterpiece palace "Indraprastha" the Tiles placed at entry were designed using special type of illusions. Floor was looking like there's small waterpond placed. It was actually tile. Duryodhana got confused and falls there. I hope rest of the story is well known to all of you.

RIDDLES

-Rohini H N, 6th sem

1. I am always in you and sometimes on you. If I surround you, I can kill you. What am I?
2. You may enter, but you may not come in. I have space, but no room. I have keys, but open no lock. What am I?
3. You can't see me, but I can see you. To be more specific, I see through. What am I?.
4. What brings you down but never up?
5. What has cities, but no houses; forests, but no trees; and water, but no fish?
6. What has no hands but might knock on your door, and if it does you better open up?
7. You answer me but I ask you nothing. What am I?
8. What belongs to you, but other people use it more than you?

1.Water 2.A computer 3.An X ray 4.Gravity 5.A map 6.Opportunity 7.A phone 8.Your name

TECHNICAL JOKES

-Afham Ali Beig & Nischitha S R, 6th Sem

- Why did the capacitor break up with the resistor?
  - They had no potential difference between them.
- How do you comfort a sad electronic engineer?
  - Give them a shoulder to solder on.
- Why did the transistor go to therapy?
  - It had a breakdown and couldn't find its bias.
- What's the difference between an engineer and a lawyer?
  - An engineer can actually solve a problem.
- Four engineers get into a car. The car won't start.
  - The mechanical engineer says :

    "it's a broken starter"

    The electrical engineer :

    "dead battery"

    The chemical engineer:

    "impurities in the gasoline"

    The IT engineer:

    "Hey guys , I have an idea how about we all get out of the car and get back in".
- Why did the electronic engineer bring a flashlight to the office?
  - They wanted to shed some light on the current situation.

PEEP INTO THE DEPARTMENT

Events Conducted:

1. Invited talk on **"Blood donation awareness and blood grouping"** by Dr. Ashwini S R and Sri Dharanindra Dinakar for E&TE students on 10/12/2022 coordinated by Dr. Ashwini S R.

2. Invited talk on "Road map to Civil Service Examination" by Mr. Akshay Kumar M K for E&TE students on 24/01/2023 coordinated by Mr. Madhusudhan G.

3. Invited talk on **"Study and implementation of organic farming, water conservation and wet waste management"** by Dr. Santhosh U N, Research Associate and Dr. Divya M, Research Associate at Zonal Agricultural and Horticulture Research station, Navile Shimoga for E&TE and EEE students from 10/01/20 23 to 11/01/2023 coordinated by Ms. Aparna, Ms. Rashmi M Hullamani.

4. Invited talk on **"Waste management implementation in the campus"** by Dr. H. B. Suresh, Professor, Dept. of EEE for E&TE and EEE students on 16/02/2023 coordinated by Ms. Aparna, Mr. Shashi Kiran S.

5. Department organized an invited talk on **"Artificial Neural Network"** by Dr. Sridhar Murthy S K, Professor and Head, E&C Dept., UBDTCE, Davangere for E&TE students on 21/6/2022. The Event was coordinated by Mr. Harisha S B, Asst. Professor and Mr. Shashi Kiran S., Asst. Professor, Department of E&TE.

6. Department organized an invited talk on **"Emerging Trends in Cloud Computing and Career Opportunities"** by was Mr. Srivathsa M A, System Integrator, Intel Technologies, Bangalore for 4th sem E&TE students on 10/6/2022. The Event was coordinated by Mr. Harisha S B, Asst. Professor and Mrs. Rashmi M Hullamani, Asst. Professor, Department of E&TE.

7. Department organized an online webinar on **"Introduction to Linear Algebra"** by Dr. Vipula Singh, Professor & Head, E&C RNSIT, Bangalore and Mr. Sanjay M Belgaonkar, Asst. Professor, E&C RNSIT, Bangalore for 4th sem E&TE students on 07/6/2022.The Event was coordinated by Mrs. Rashmi M Hullamani, Asst. Professor, Department of E&TE.

8. Department organized an invited talk on **"Internship and Placement opportunities in VLSI and allied Industries"** by Mrs. Tejaswini Mahalingam, Analog Layout Engineer, Texas Instruments, Bangalore on 20/09/2022 for 7th-semester students of ETE, ECE & EEE departments. The Event was coordinated by Dr. Ashwini, Asst. Professor, Department of E&TE.

9. Dr. Ushadevi M B Organized AICTE Training and Learning (ATAL) Online and Offline Faculty Development Programme on **"Computational Intelligence Enabled Sensors and Networks for 5G/6G Wireless Communication"** with the Sponsored amount of Rs.3,00,000/- (Rs. Three Lakhs) From 14th – 25th Nov 2022 .

Faculty achievements:

1. Dr. M. B. Ushadevi. M published paper titled "Optimizing maximum link utilization in Multicast network" in International Journal of computer networking, wireless and mobile communications on 21-04-2022.

2. Dr. Ushadevi M B Published Patent titled: "Automated Gas Stove Using Cloud and IOT Integrated System" on 06-01-2023.

3. Harisha Shimoga, Beerappa , Mallikarjun Erramshetty ,Amit Magdum **, "Deep Learning Assisted Distorted Born Iterative Method for Solving Electromagnetic Inverse Scattering Problems",** International Journal of Progress In Electromagnetics Research C, Vol. 133, 65-79, 2023.

4. Mr. Harisha S B, Asst. Professor published a paper in the International Research Journal of Engineering and Technology (IRJET) IRJET on **"Smart Wheelchair with Trolley for Elderly People"** Vol. 9, Issue 6, June 2022, ISSN 2395-0056.

5. Dr. Ashwini S R was Reviewer for IJRES Internal Journal on 03/10/2022, BEEI Internal Journal on 02/12/2022 and IJEECS Internal Journal on 09/03/2023.

6. Dr. Ashwini S R, Asst. Professor was the subject expert of Trilingual Glossary of Engineering Words conducted by MHRD Government of India from 2/5/2022 to 6/5/2022.

7. Dr. Ashwini S R, Asst. Professor received a grant of Rs. 6,000 for the KSCST-sponsored project **"Integrated smart Pole"** on 11/5/2022.

8. Ashwini S R, Girish Mantha, Prema K N, Sayed Aftab Ahamed, **"Biomedical Waste Segregation for Hospice Applications",** International Journal of Research and Analytical Reviews (IJRAR), E-ISSN: 2348-1269, P- ISSN 2349-5138, January 2023, Volume 10, Issue 1, pp. 82-86.

9. Ashwini S R, Anushree J C, Geetha, Manali C V, Sandhya G, **"Integrated Smart Pole"**, International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), ISSN: 2278-1021, ISSN (Print) 2319–5940, DOI: 10.17148/IJARCCE.2023.12104, Volume 12, Issue 1, January 2023, pp.23-28.

10. Ashwini S R, Prathiksha R Bhat, Harishma R, Deeksha V, PreethiJadav K, **"Image Processing Based Automated Sericulture Monitoring System Using IOT"**, International Journal of Advanced Research in Arts, Science, Engineering and Management (IJARASEM), ISSN: 2395-7852, Volume 10, Issue 2, March 2023.

11. Shashi Kiran. S was Reviewer for International Conference on Smart Sensors for applications in Electrical Sciences (ICSSES), Jul 07 – 08, 2023, Tumakuru, India.

12. Shashi Kiran. S and Suresh K.V, **"Super resolution image reconstruction via dual dictionary learning in sparse environment"**, International journal of Electrical and Computer Engineering (IJECE), Vol. 12, No. 5, October 2022.

13. Shashi Kiran S, Adeeba Aymen I, Manasa H S, Venu U ,Vinay B Sajjanashettar published a paper titled **"Autonomous trash collection robot using IOT"** in IJMRSETM, Volume 10, Issue 5, May 2023.

14. Rashmi M Hullamani published a paper titled **"AN ANALYSIS OF PLANT DISEASES USING NEURAL NETWORK FOR INCREASING ECONOMIC GROWTH OF FARMERS"** in Journal of Tianjin University Science and Technology, ISSN (Online):0493-2137, E-Publication: Online Open Access, Vol: 56 Issue: 02: 2023 DOI10.17605/OSF.IO/CKM9V.

15. Rashmi M Hullamani published a paper titled **"A Survey on ECG Signal and Denoising using FIR and Wavelets"** in GIS SCIENCE JOURNAL Published on: December 2022, Volume 8, Issue 5, ISSN NO : 1869-9391.

16. Rashmi M Hullamani published a paper titled **"Corona Virus, its Effects and Solution- A Review"** in NeuroQuantology, doi:10.14704/nq.2022.20.10.NQ55681, Published on : August 2022|Volume20|Issue10|Page 6860-6870.

17. Rashmi M Hullamani published a paper titled **"CRICLYTICS – Cricket Prediction using Machine Learning"** in Gradive Review Journal, An UGC-CARE approved Group II Journal, DOI :10.37897/GRJ, Impact factor: 6.1, Published on: May 2022, Volume 8, Issue 5.

STUDENTS ACHIEVEMENTS

1. Priyanka N of 6th Sem participated in International level jamboree band and colour party at alvas and represented India by securing **1st** place.
2. Priyanka N of 6th Sem received Rajyapurskar award at 2023 state level nature study camp.
3. Srujana N and Deeksha of 8th Sem participated in throwball competition which was organized at GMIT on 16/03/2023 and secured **1st** place.
4. Dhanya Gudigar, Srinivas S,Subhash Chandra of 6th Sem secured **1st, 2nd,3rd** respectively in Technical Quiz Held on World Telecommunication and Information Society Day in JNNCE.
5. Dhanya Gudigar of 6th Sem secured **1st** place in Drawing competition held on "JNNCE Kannadothsava" .
6. Afham Ali Beig of 6th Sem secured **2nd** place in long jump in JANVEY sports meet.
7. Afham Ali Beig and Sudarshan T B of 6th Sem secured **1st** place in 4*100m relay in JANVEY Sports Meet.
8. Vinay B Sajjanashettar of 8th Sem participated in design and innovation clinic held at Central Manufacture Technology Institute, Bengaluru.
9. Srujana N, Impana B and Sumedha S of 8th Sem participated in VTU Volleyball held in Mysore.
10. Manasa H S of 8th Sem secured **2nd** place in 200m running race in JANVEY Sports Meet.
11. Srujana N of 8th Sem secured **2nd** place in shortput and javlin throw in JANVEY Sports Meet.
12. Priyanka N of 6th Sem secured **3rd** place in in state level yuvadasara dance competition and 1st place (group) , 2nd place (solo) in state level dance competition held at tarikere.
13. Nischitha S R, Priyanka N, Sannidhi T N, Aditi S G, Vyshnavi S, Vismitha V R of 6th Sem secured **1st** place in JANVEYCreative dance competition.
14. Srujana N, Manasa H S, Shriya R R, Meghana H, impana B, Madhu M S, Sumedha, Madhu G D, Deeksha A S of 8th Sem Participated in throwball and secured **2nd** place in JANVEY Sports Meet.
15. Srujana N, Manasa H S, Shriya R R, impana B, Madhu M S, Sumedha, Madhu G D, Deeksha A S, Soujanya S K. of 8th Sem Participated in volleyball and secured **1st** place in JANVEY Sports Meet.

CLASS TOPPERS LIST

SEMESTER	NAME OF THE STUDENTS	SGPA
II	Vandana R	8.95
III	Vandana R	9.17
IV	A M Mallikarjun	8.83
V	Dhanya Gudigar	9.16
VI	Smriti K Vantkar	9.05
VII	Smriti K Vantkar	9.0

PLACEMENT DETAILS (2022-2023)

NAME	COMPANY NAME
Meghana G P	Vodafone Intelligent Solutions (VOIS),
Bhumika S G	Vodafone Intelligent Solutions (VOIS),
R R Shriya	Vodafone Intelligent Solutions (VOIS)
Deeksha A S	Vodafone Intelligent Solutions (VOIS)
Prathiksha R Bhat	Pragati Automations pvt ltd, TCS
Sumedha. S. Hegde	Qualitest
Smriti K Vantkar	First American India Private Limited, TCS
Preethi Jadav K	Vodafone intelligent solutions (VOIS)
Harishma R	TCS
Madhu M S	TCS
Manasa H S	TCS
Anjan D S	TCS
Pratima Meghashyam Naik	Vodafone intelligent solutions (VOIS)
Bhoomika S	Teachnook
Apoorva R V	Teachnook, Palle technologies
Deeksha A S	Vodafone intelligent solutions (VOIS)
Adeeba Aymen I	Cadmaxx Edtech Pvt Ltd.
Deeksha V	TCS DIGITAL, Teechnook
Bindu Rani A P	ETHNUS - JOSH Mithra
Harsha J	TechMeridian Solutions Pvt Ltd (Off-Campus), Skolar
Meghana M	Teachnook

TELEGMA 2022/2023 WINNERS LIST

Technical Events :

1. Technical quiz

3rd Sem

I. Vandana R
II. Pratiksha R Kondajji
III. Bhavana V

5th Sem

I. A M Mallikarjuna
II. Subhash Chandra

8th Sem

I. Harish M C
II. Abhishek
Prathiksha V
Meghana C
III. Shriya
Kavya
Pavan.S

2. Pick & Speak

6th Sem

I. Subhash Chandra
II. A M Mallikarjuna
III. Afham Ali beig

8th Sem

I. Prathiksha R bhat
II. Soujanya S K
III. Madhu M S

3. Crossword puzzle

6th Sem

I. Nischitha S R
II. Srinivas S
Vismitha V R
III. Shreelakshmi K S
M Afroz

8th Sem

I. Srujana N
II. Bhoomika H S
Meghana c
Pavan S
III. Shoaib ur Rehman

4. Memory Master

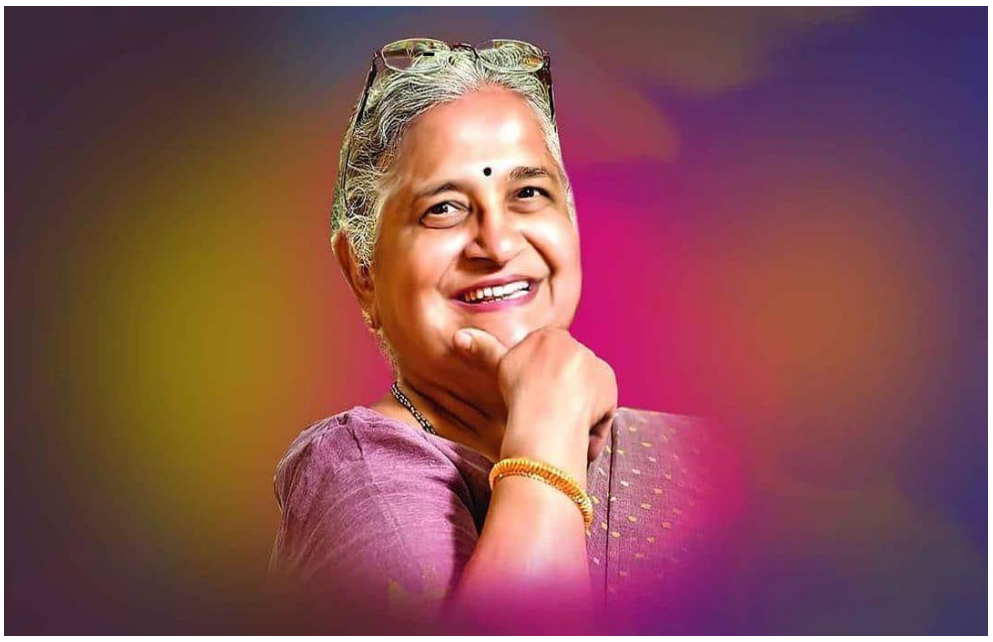
6th Sem

I. Dhanya.gudigar
II. Sudharshan.T.B
III. Ananya.S.R
Jeevan.S.R

8th Sem

I. PreethiJadhav
II. Bindu Rani A P
Vinay B S
III. Venu U
Manasa H S

SUDHA MURTHY- An Iconic Woman



Dhanya ,6th Sem

- Some women are born to inspire. Women have always been a source of motivation and a catalyst for social change. One such name is Sudha Murty. A writer, philanthropist and entrepreneur, Sudha Murthy is greatly revered for being a prolific writer, social woks and being one of the brains behind Infosys, one of India's leading IT company. From becoming the first female Engineer in India to heading a company like Infosys, her seriousness towards making a change in society and her educational journey has played a significant role in her making. On 19 August 1950, Sudha Murthy was born in a Brahmin family in Shiggaon, Karnataka. Sudha Murthy completed her BE in Electrical Engineering from B.V.B College of Engineering, Hubli and pursue her ME in Computer Science in 1974 from the Indian Institute of Science, Bangalore.

- Mrs. Murthy became the first female engineer hired India's largest auto manufacturer TELCO (Tata Engineering and Locomotive Company) now Tata motors. She worked as Development Engineer and Senior System Analyst in Walchand group of Industries in Pune. She spreads the awareness of rural education, public hygiene, poverty alleviation and much more. She imbibes the need to maintain clean India, hence building up toilets for public. She has been passionate in helping people in flood affected areas too. she believed in "Vision without action is merely a dream. Action without vision is merely passing time. But vision and action together can change the world". She was honoured by varies awards along with Padma Shri in 2006 and Padma Bhushan in 2023 by the Government of India.

MAJOR WORKS

Sudha Murthy is also the chairperson and trustee of Infosys Foundation. With her master's in Electrical Engineering from the Indian Institute of Science, Bangalore, she started Infosys Foundation in 1996. She has built 2300 houses in flood-affected areas through the foundation. She also covers public hygiene, healthcare, education, art and culture and poverty alleviation. She has built 7000 libraries in schools and 16,000 toilets. Being an Author, Mrs. Murthy wrote many books in both Kannada and English. As a part of the Infosys Foundation, Sudha Murthy still visits rural areas for 10 days every month to implement relief initiatives. Besides, she is also an active member of the various public healthcare initiatives carried out by the Gates Foundation.


TELEGNA


SHIVABHADRA TRUST
TARANGA HIGHER PRIMARY SCHOOL FOR DEAF CHILDREN
Latitude: 13.948299
Longitude: 75.581854
Elevation: 577.08±20 m
Accuracy: 13.5 m
Time: 02-12-2022 14:40
Note: school
Powered by NoteCam


TELEGMA


TELEGMA


J.N.N. COLLEGE OF ENGINEERING
AICTE ATAL FDP