

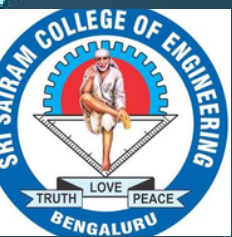
ACADEMIC YEAR
2020-2021

E
V
O
L
V
E

MAGIC CIRCUITS

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SRI SAIRAM COLLEGE OF ENGINEERING



STAFF COORDINATORS:

1.HEMA SHUBRAJA J | AP | ECE
2.MOHANTHI KAKARLA K | AP | ECE

STUDENT COORDINATORS:

1.SAKTHIVEL G | 1SB20EC037
2. JEEVITHA M | 1SB20EC022



TECH OF THE FUTURE: TECHNOLOGY PREDICTIONS FOR OUR WORLD IN 2050

INNOVATION TECHNOLOGY TRENDS

The world of technology is constantly evolving and advancing. With each passing year, we witness new inventions, innovations, and breakthroughs that change the way we live and interact with the world around us. It's fascinating to imagine what kind of technological advancements we'll see in the next few decades. Here are some predictions for the tech of the future and what our world will look like in 2050.

Technology Industry Trends

1

Another area of development is renewable energy. As the world becomes more environmentally conscious, we can expect to see a greater emphasis on clean, sustainable energy sources like solar and wind power.

2

Finally, we can expect significant advancements in the field of medicine. By 2050, personalized medicine will become the norm. With the help of AI and genetics, doctors will be able to create customized treatments for each individual patient.

3

In conclusion, the future of technology is bright and exciting. From AI to renewable energy to personalized medicine, the possibilities are endless. While we can't predict the future with certainty, we can certainly look forward to a world that is more connected, sustainable, and innovative

ನಮ್ಮ ಚೆಲುವ ಕನನ ಡ ನಾಡ

- ಕನಾಟಕವು (ಪೂರ್ವದಲ್ಲಿ ಮೈಸೂರು ರಾಜ್ಯ) ಭಾರತದಲ್ಲಿ ನ ರಾಜ್ಯ ವೊಂದು. ಕರ್ನಾಟಕವು ಭಾರತದ ಐದು ಪ್ರ ಮುಖ ದಕ್ಷಿಣಾತೀಯ ರಾಜ್ಯ ಗಳಲ್ಲಿ ಅತಿದೊಡ್ಡ ರಾಜ್ಯ ವು ಹಾಗೂದೇಶದ ಆರನೆಯದೊಡ್ಡ ರಾಜ್ಯ ವು.
- ಮುನ್ನನ ಡಿ:೧೯೭೩ಕ್ಕೆ ಮೊದಲು ಕರ್ನಾಟಕದ ಹೆಸರುಮೈಸೂರು ರಾಜ್ಯ ವೊಂದಿತ್ತು.ಇದಕ್ಕೆ ಕಾರಣ ಕರ್ನಾಟಕ ಏಕೀಕರಣದಮೊದಲ ಸೃಷ್ಟಿ ಮೈಸೂರು ಮಹಾಸಂಸ್ಥಾನವನ್ನು ಆಧರಿಸಿದುದು (೧೯೫೦ ರಲ್ಲಿ). ೧೯೫೬ ರಲ್ಲಿ ಸುತು-ಮುತು ಲ ರಾಜ್ಯ ಗಳ ಕನು ಡ್ ಪ್ರ ಧಾನ ಪ್ರ ದೇಶಗಳನ್ನು ಸೇರಿಸಲಾಯಿತು. "ಕರ್ನಾಟಕ" ಎಂಬ ಹೆಸರಿಗೆ ಅನೇಕ ವುಯ ತಪ ತಿ ಗಳು ಪ್ರ ತಿಪಾದಿಸಲಪ ಟ್ಟಿ ವೆ. ಎಲಿ ಕ್ಷೆ ಸೊಂತ ಹೆಚ್ಚಾಗಿ ಒಪ್ಪ ಲಪ ಟ್ಟಿ ರುರ್ ವುಯ ತಪ ತಿ ಎಂಬಂದರೆ ಕರ್ನಾಟಕ ಎಂಬುದು "ಕರು+ರ್ನಾಡು" ಎಂಬುದರಿಂದ ವುಯ ತಪ ತಿ ಯನ್ನು ಪ್ಲೆದಿದೆ. ಕರ್ನಾಡು ಎಂಬಂದರೆ ಕಪ್ಪುಪ ಮಣ್ಣಿ ನ ರ್ನಾಡು, "ಎತು ರದ ಪ್ರ ದೇಶ" ಎಂಬುದು ಅವರ್. ಕರ್ನಾಟಕ ರಾಜ್ಯ ದ ಸಮುದರ ಮಟಿ ದೊಂದ ಸರಾಸರಿ ಎತು ರ ೧೫೦೦ ಅಡಿ ಇದು ಇದು ಭಾರತದಲ್ಲಿ ಅತಿ ಹೆಚ್ಚಾಗಿ ನ ಸರಾಸರಿ ಎತು ರವುಳಳ ರಾಜ್ಯ ಗಳಲ್ಲಿ ಒಸೊಂದು.
- ಸಂಸ್ಕೃತಿ: ಕರ್ನಾಟಕದ ಕೃಲವು ಜ್ವಪ್ರರ ಯ ಸ್ಥೊಂಸೆ ೃತಿಕ ಕಲೆಗಳು: ಸಂಗೀತ: ದಕ್ಷಿಣ ಭಾರತದ ಶಾಸಿ ರೀಯ ಸಂಗೀತ ಪ್ಲಧ ತಿಯಾದ ಕರ್ನಾಟಕ ಸಂಗೀತ ಉಗಮವಾದುದು ಕರ್ನಾಟಕದಲ್ಲಿ ಯೇ. ಕರ್ನಾಟಕದಲ್ಲಿ ಜ್ವಪ್ರರ ಯವಾಗಿರುರ್ ಇತರ ಸಂಗೀತರೂಪ್ಲಳಲ್ಲಿ ಭಾಗೀತೆಗಳು, ಸುಗಮ ಸಂಗೀತ, ಜ್ವತರ ಗೀತೆಗಳು ಸೇರಿವೆ. ನೃತಯ: ಭಾರತದ ಶಾಸಿ ರೀಯನೃತಯ ಪ್ಲಧ ತಿಗಳಲ್ಲಿ ಹೆಸರಾದ ಭರತನಾಟಯ ಕರ್ನಾಟಕದಲ್ಲಿ ಜ್ವಪ್ರರ ಯ. ಕರ್ನಾಟಕಕ್ಕೆ ವಿಶಿಷ್ಣ ವಾದ ಒಸೊಂದು ನೃತಯ ಕಲೆ ಯಕ್ಷಗಾನ.ಡೊಳುಳ ಕುಣ್ಣತ ಜಾನಪ್ಲ ನೃತಯ ಪ್ಲಧ ತಿಗಳಲ್ಲಿ ಒಸೊಂದು.



ಕೃಷ್ಣಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ: ರಾಜ್ಯ ದ ಉತು ರ ಭಾಗದಲ್ಲಿ ರುರ್ ಕೃಷ್ಣಿ ನದಿಯ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶದಲ್ಲಿ ಪ್ರ ಧಾನ ಉಪ್ಪದಿಗಳಾದ ತ್ತೊಂಗಭದ್ರರ, ಮಲಪ್ರ ಭಾ, ಘಟಪ್ರ ಭಾ, ಭೀಮಾನದಿಗಳು ಹರಿಯುತು ವೆ. ಕಾವೇರಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ: ದಕ್ಷಿಣದ ಕಾವೇರಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶದಲ್ಲಿ ಪ್ರ ಧಾನ ಉಪ್ಪದಿಗಳಾದ ಹಾರಂಗಿ, ಹೇಮಾರ್ತಿ, ಕಬನಿ, ಸುರ್ಣಾವರ್-ತಿ, ಲಕ್ಷಮ ಣ ತೀರ್ವ, ಶಿಶೊಂಶಾ, ಅಕಾವರ್ತಿ ನದಿಗಳು ಹರಿಯುತು ವೆ. ಗೀದ್ರರಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ:ಗೀದ್ರರಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶದಲ್ಲಿ ಪ್ರ ಧಾನ ಉಪ್ಪದಿಯಾದ ಮಂಜೀರಾ ನದಿ ಹರಿಯುತು ದೆ. ಪ್ಲಿ ಮಕ್ಕೆ ಹರಿಯುರ್ ನದಿಗಳ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ: ಈ ಪ್ರ ದೇಶದಲ್ಲಿ ಮಾಸೊಂಡ್ಲಿ, ಕಾಳಿ, ಗಂಗಾಲ್ಲಿ, ಅಘರ್ನಶಿನಿ, ಶರಾರ್ತಿ, ಚಕಾರ, ವಾರಾಹಿ, ನೇತಾರ ತಿ, ಬಾರಾಪೀಲ್ ನದಿಗಳು ಹರಿಯುತು ವೆ. ಉತು ರ ಪ್ರರ್ನಕ್ಷನಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ. ದಕ್ಷಿಣ ಪ್ರರ್ನಕ್ಷನಿ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ. ಪಾಲಾರ್ ಜ್ಞಾನಯನ ಪ್ರ ದೇಶ.

The Artistry and Allure of Anime & Manga

We've all undoubtedly encountered these renowned shows: Dragon Ball, Pokémon, Naruto, Doraemon, and Shin Chan. They aren't merely cartoons; they represent the pinnacle of creativity and exceptional artworks known as Anime. Anime has its origins in Japan, dating back to the early 20th century. The term "anime" is a derivative of the English word "animation" and is used to describe animated works characterized by a unique Japanese style. In 1917, Jun'ichi Kōuchi created what is now recognized as one of the first anime, titled "Namakura Gatana" or "An Obtuse Sword." However, it was Osamu Tezuka, often referred to as the "God of Manga," who played a pivotal role in shaping modern anime, particularly with his iconic creation, "Astro Boy," during the 1960s. Since then, anime has undergone significant evolution and has become a globally influential medium, boasting a wide array of genres and artistic styles.

Here are some of my favourite beautiful sayings on anime:

- "Anime teaches us to never give up on our goals, to always believe in ourselves, and to cherish our friends."
- "Anime has a way of touching your soul and making you feel deeply connected to the characters and their journeys."
- "Anime is a form of expression that transcends language, culture and time. Anime is a reflection of our own reality, but with a touch of magic, wonder and adventure." - Leonardo DiCaprio
- "I love anime because it shows me the beauty of diversity and the power of friendship. Anime teaches me to respect different cultures and perspectives, and to cherish the bonds I have with others." - Barack Obama

Certainly, there exists an abundance of beautifully and eloquently expressed quotes within the realm of anime. Anime boasts a vibrant and diverse fan base, uniting individuals from various backgrounds through its captivating narratives and compelling themes. It possesses the power to weave beautiful stories that resonate deeply with our emotions, touching our hearts and leaving a lasting impression. Manga, a Japanese comic or graphic novel, serves as the source material for many beloved anime series. It is essentially a visual storytelling medium that incorporates intricate artwork and dialogue, allowing readers to follow engaging narratives and character development. Creating manga is no easy feat; it requires a deep understanding of storytelling, artistry, and panel layout. The transition from manga to anime involves adapting the source material into animated form, a process that demands careful attention to maintaining the essence of the original story and characters. Many iconic anime, like "Naruto," have their roots in manga, highlighting the enduring influence and popularity of this medium in the world of entertainment. I highly recommend delving into the world of anime and manga. These mediums offer valuable life insights beyond mere entertainment, enriching your journey by expanding your understanding of diverse perspectives and ethical values. My own respect for others has grown, recognizing that each person has a unique viewpoint, thanks to the profound lessons I've learned from anime and manga.



VLSI

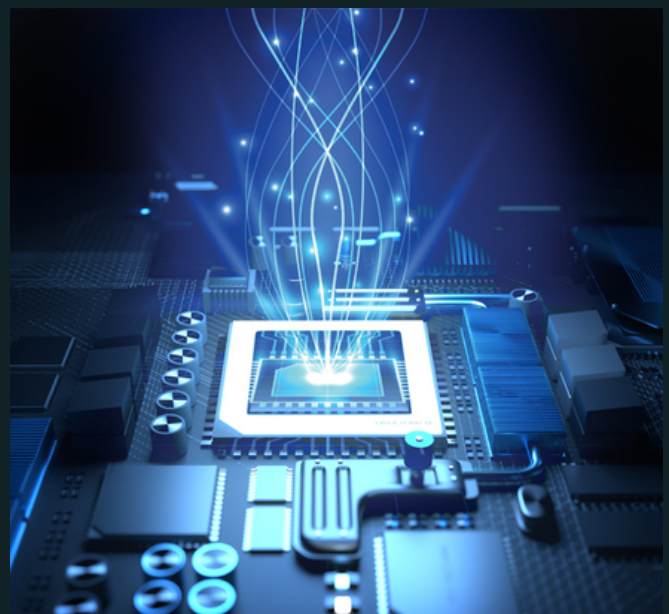
Very-large-scale integration (VLSI) is the process of creating an integrated circuit (IC) by combining thousands of transistors into a single chip. VLSI began in the 1970s when complex semiconductor and communication technologies were being developed. The microprocessor is a VLSI device. Before the introduction of VLSI technology, most ICs had a limited set of functions they could perform. An electronic circuit might consist of a CPU, ROM, RAM and other glue logic. VLSI lets IC designers add all of these into one chip.

The electronics industry has achieved a phenomenal growth over the last few decades, mainly due to the rapid advances in large scale integration technologies and system design applications. With the advent of very large scale integration (VLSI) designs, the number of applications of integrated circuits (ICs) in high-performance computing, controls, telecommunications, image and video processing, and consumer electronics has been rising at a very fast pace.

The current cutting-edge technologies such as high resolution and low bit-rate video and cellular communications provide the end-users a marvelous amount of applications, processing power and portability. This trend is expected to grow rapidly, with very important implications on VLSI design and systems design.

Applications of VLSI technology:

Consumer Electronics: VLSI technology has transformed the consumer electronics industry, enabling the development of smartphones, tablets, gaming consoles, and smartwatches. These devices offer advanced functionalities, high-speed processing, and energy efficiency, enhancing user experiences and productivity.



LIFE BELOW WATER

Oceans and seas cover more than two-thirds of the earth's surface and contain 97% of the planet's water. They provide us with an important source of food and other natural resources, including medicines, biofuels and other products. The marine environment is, therefore, an important source of jobs (fishery, tourism, etc.) and coastal areas are great places for living and recreational activities. However, oceans, seas and marine resources are increasingly being degraded by human activities that harm marine life, undermine coastal communities, and negatively affect human health. SDG 14 aims to conserve oceans and ensure their sustainable use by implementing international law and developing activities to safeguard marine and coastal ecosystems, as well as prevent and reduce marine pollution. Oceans provide key natural resources including food, medicines, biofuels, and other products. They help with the breakdown and removal of waste and pollution, and their coastal ecosystems act as buffers to reduce damage from storms.

One of the objectives of SDG14 is to reduce marine pollution by 2025. Plastic is one of the main waste products that end up in the oceans, dumped directly into the sea (e.g. from ships, fishing equipment) or coming from land and sewage water ending into the sea. Each year, an estimated 8 million tonnes of plastic ends up in the ocean. Plastic objects and microplastics have a major environmental and economical impact. Birds, fish, and other sea organisms which ingest them can injure or kill themselves or reduce their reproduction due to toxic. From microorganisms to humans, the whole food chain is impacted. We have to rethink our plastic dependency if we want to save seas and oceans.



The Mystical Power of "Aum": Unveiling Its True Significance through Authentic Proofs

Introduction :

"Aum," often spelled as "Om," is a sacred sound and symbol in various spiritual and religious traditions, particularly in Hinduism and Buddhism. It holds profound significance as a mantra and a symbol of divine energy. While its true essence is often shrouded in mysticism and spirituality, there exist authentic proofs and explanations that shed light on the deeper meaning and significance of "Aum." In this article, we will explore the multifaceted aspects of "Aum" and present true proofs of its significance.

The Sound of Creation:

The "Aum" sound is considered the primordial sound of the universe, symbolizing the creation of the cosmos. This belief is supported by the concept of Nada Brahman in Hinduism, which asserts that the entire universe originated from sound vibrations. Scientifically, we can relate this to the Big Bang Theory, which suggests that the universe began with a massive explosion, emitting energy in the form of sound waves. In this sense, "Aum" represents the cosmic sound that initiated creation, and this connection provides an authentic proof of its significance in Hinduism.

Universal Vibration:

In some spiritual traditions, it is believed that the universe is made up of vibrations and frequencies. "Aum" is considered the primordial sound from which all other sounds and vibrations emanate. It is thought to be the sound that underlies the entire universe's vibrational energy

The Universal Sound:

Beyond Hinduism, "Aum" has also found its place in Buddhism, where it is considered a universal sound that transcends language and culture. In Buddhist practice, chanting "Aum" is believed to help focus the mind, attune it to higher vibrations, and lead to spiritual awakening. The universality of "Aum" as a sound that resonates with practitioners across different spiritual paths serves as another authentic proof of its profound significance.

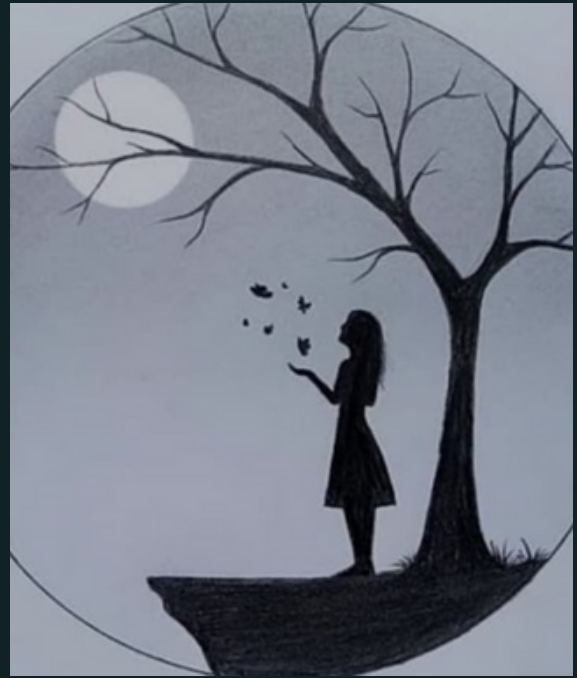




SKETCHES OF ECE



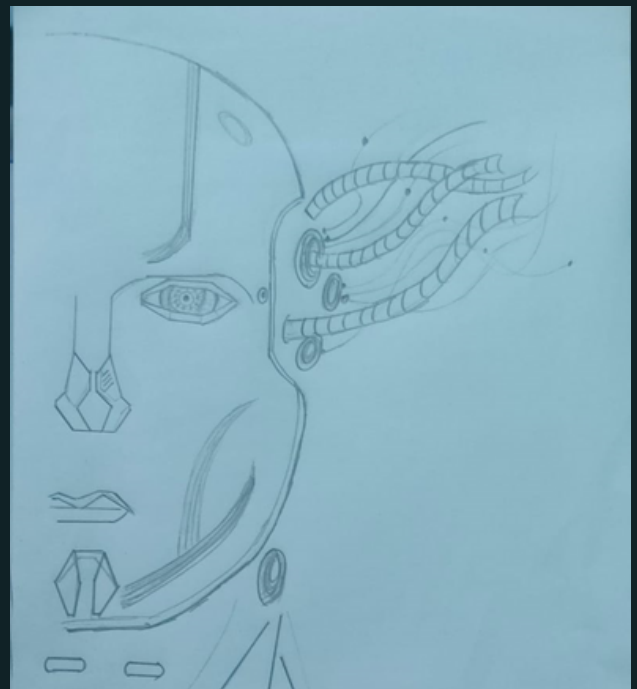
MONIKA.K(1SB21EC056)



RANJITHA B(1SB21EC078)



SUSMITHA MOHARE(1SB22EC403)



UPPU CHANDU(1SB22EC404)