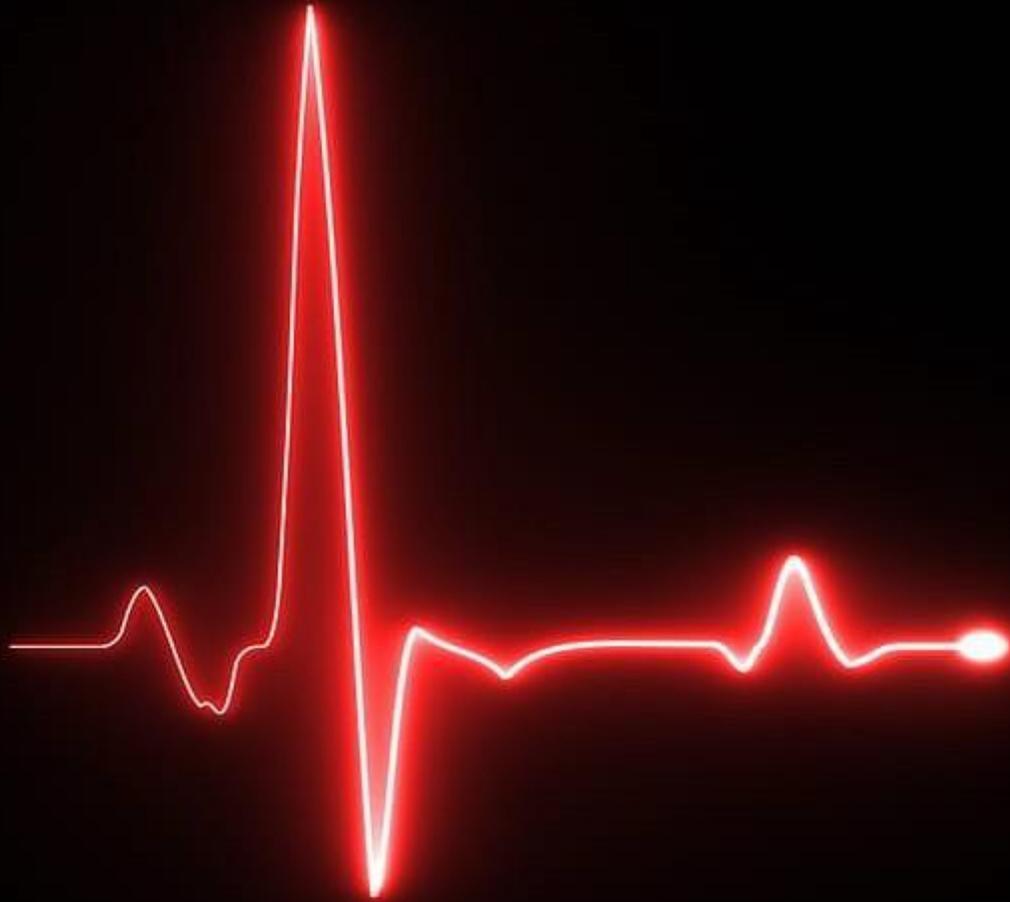


THE PULSE

NEWSLETTER
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Vision

To emerge as a centre of academic excellence in the field of Electronics & Communication Engineering to address the dynamic needs of the industry upholding moral values.

Mission

- Impart in-depth knowledge in Electronics & Communication Engineering to achieve
- academic excellence.
- Develop an environment of research to meet the demands of evolving technology.
- Inculcate ethical values to promote team work and leadership qualities befitting societal requirements.
- Provide adaptability skills for sustaining in the dynamic environment

MESSAGE FROM FACULTY

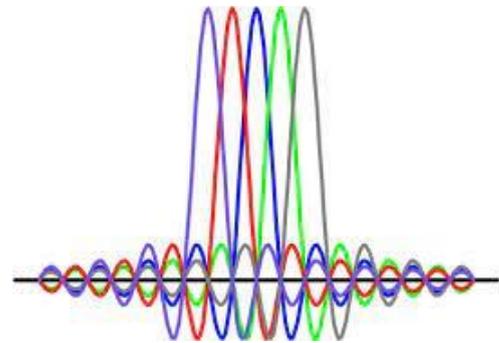
OFDM (Orthogonal Frequency Division Multiplexing)

Orthogonal Frequency Division Multiplexing(OFDM) is used to split a high rate data stream into a low rate stream that are transmitted simultaneously over a number of subcarriers .

The ever-increasing number of people who use mobile communication is causing concern for mobile networks. Increasing the area covered, the data throughput, and the service quality in mobile networks is a major problem. As a result, the mobile communication system must be extremely effective in this regard. To meet the growing needs of its users, the current system must be significantly expanded. Multiple carrier frequencies are used to encode digital data using orthogonal frequency-division multiplexing (OFDM). There are a variety of uses for OFDM, including digital television and audio transmission, high-speed DSL Internet access, wireless networks, power line networks, and fourth-generation mobile communications.

Features:

- ❖ Multi-carrier transmission
- ❖ Robustness against Multipath fading
- ❖ Band width on demand Technology
- ❖ Spectral efficiency



*Have a wide range of potential applications
DAB; HDTV; Wireless LAN; IEEE 802.11.*

Article by



Dr. Sujath S

Assistant Professor, Department of Electronics and Communication,
School of Engineering and Technology,
CHRIST (Deemed to be University), Bangalore.

EVENTS

Highlights of the Month:

- Dr.Chidambaram.S invited as a key note speaker on “One day National Level Webinar on National Innovation and Startup Policy for Students & Faculty” in National Innovation and Startup Policy for Students & Faculty Organized by Hindusthan Institute of Technology, Coimbatore, held on 24-05-2022.
- Dr Hari Murthi , Prof Shasi Kumar D, Prof Manjunath N had obtained the copyrights for the pateny entitled “Wall mounted bathroom mirror with built-in defogger, clock and automatic alarm systems and a capacitive touch button” on 02-05-2022
- Dr. Inbanila K have participated the FDP on the topic “Emergence of Block chain Technology and cryptocurrencies” Organized by NIT Warangal held on 02-05-2022.
- ECE Faculties attended MATLAB workshop on "AI and ML Onram"
- The CUESTIC valedictory Function Organized by Department of Electronics and Communication , Christ (Deemed to be University), on 05-05-2022.



STUDENT CONNECT

Indian Space Station (2030)

In 2019, K. Sivan, chairman of the Indian Space Research Organisation (ISRO), presented the model of the proposed space station. This decade, many space organisations are planning to set up space stations in orbit, like the Lunar Gateway project by NASA, ESA, CSA and JAXA, ROSCOSMOS's Russian Orbital Service Station (ROSS), and the Tiangong space station being constructed by China.

The Indian space station launch is planned to happen in 2030, after the Gaganyaan mission (2022), maiden human spaceflight mission to space. The Gaganyaan mission will be conducting three trial launches. The first will be unmanned. The second, here it gets more interesting, ISRO will send a female robot named Vyommita. The robot has her own instagram page! And in the third trial humans will be sent. The result of the launch will most likely affect the space station project. So the Gaganyaan mission is pretty important. The space station is to weigh 20,000 kilograms and astronauts can stay for 15-20 days in an orbit 400km above earth. The launch is planned to happen 5-7 years after Gaganyaan. The chairman of ISRO addressed the media "We want to have a separate space station. We will launch a small module for microgravity experiments... that is our ambition". There are a lot of opportunities for STEM students in ISRO. You just have to find your interests. Knowing about the universe is mankind's ultimate goal, and having space stations to conduct research in space, is a step towards unravelling all of the secrets the universe holds.

---- **ALFRED JOSHY ALLESU**



STUDENT CONNECT

Achievers List In 2021-2022

Organized and Awarded By CUESTIC Team ECE Department

BEST IN ACADEMICS

4BTEC

1st place: SREEJA GHOSH
2nd place: GNANENDRA GARIMINTI
3rd place: SUBIN SHYJO

4BTELCS

1st place: MELVIN SHIBU
2nd place: KARWA GANESH NANDKISHOR
3rd place: P DENCY PREENA

6BTEC

1st place: APARNA SOMASEKHARAN
2nd place: MEHUL M JAIN
3rd place: JASON DAVID S

8BTEC

1st place: NANDYALA VEERA MEGHA CHANDRA REDDY
2nd place: NAGULAPATI SUDEEP REDDY
3rd place: SAI DHIKSHITHA BHANDARU

BEST IN CO-CURRICULAR

4BTEC

1st place: JINISH JOHN MONACHAN
2nd place: SREEJA GHOSH
3rd place: PRATHIKA PURUSHOTHAM

4BTELCS

1st place: PARTHASARATHY M
2nd place: MENON SIDHANTH
3rd place: JOEL THOMAS VETTIKATTIL

6BTEC

1st place: PREM KUMAR R
2nd place: NIKHIL GUPTA
3rd place: EROL JOHN D'SILVA

8BTEC

1st place: NANDYALA VEERA MEGHA CHANDRA REDDY
2nd place: KANCHAM ASHISH REDDY
3rd place: SAI DHIKSHITHA BHANDARU

BEST IN EXTRA-CURRICULAR

4BTEC

1st place: SHREYAS R
2nd place: SWASTI BHATNAGAR
3rd place: SUBIN SHYJO

4BTELCS

1st place: P DENCY PREENA
2nd place: MELVIN SHIBU
3rd place: SWAROOP SIBY

6BTEC

1st place: EROL JOHN D'SILVA
2nd place: K.MAHENDRANATH REDDY
3rd place: THILAK S

8BTEC

1st place: NANDYALA VEERA MEGHA CHANDRA REDDY
2nd place: SAI DHIKSHITHA BHANDARU
3rd place: NIYATI KAUTILYA K MANCHUR

BEST IN SPORTS

4BTEC

1st place: RENIL REJI
2nd place: SUBIN SHYJO
3rd place: VIBHOR BHATNAGAR

4BTELCS

1st place: STEVE JACOB THOMAS
2nd place: MENON SIDHANTH
3rd place: JILSON JOHNSON

6BTEC

1st place: G ROHITH KUMAR
2nd place: B.SOMASEKHAR REDDY
3rd place: KODIGANDLA PALLAVI

8BTEC

1st place: MIRUTHULA J
2nd place: PALLAPU YOSHNITHA SONJA
3rd place: BANDI SUPRIYA

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Department Newsletter Team**