

DECEMBER 2023

DEPARTMENT VISION

To produce globally competitive and socially responsible engineering graduates and to bring out quality research and education, generating knowledge in the frontier areas of Electronics and Communication Engineering

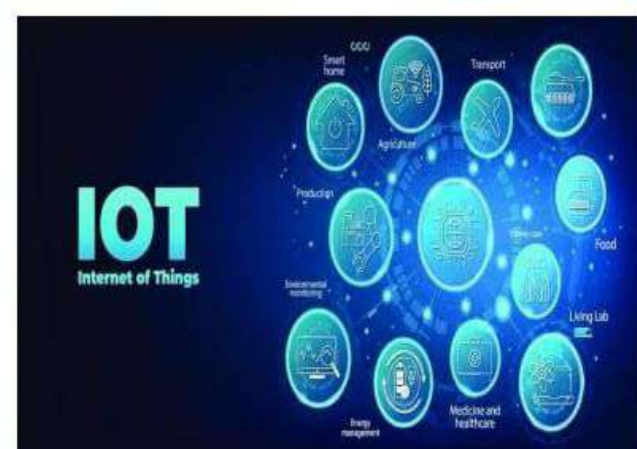
DEPARTMENT MISSION

1. To achieve self-sufficiency on all fronts to ensure qualitative Teaching-Learning practices.
2. To provide quality education, student-centred Teaching-Learning processes and state of art infrastructure for professional aspirants hailing from both rural and urban areas.
3. To impart technical education that encourages independent thinking, developing strong domain knowledge, contemporary skills and attitude towards holistic growth of young minds.
4. Responsiveness to both local and global industry needs and creating opportunities through incubation and implementation of innovative programs
5. To serve the community as disciplined responsible citizens in a rapidly changing and expanding global community.
6. Evolving this organization into a centre of academic and research excellence.

UNLEASHING THE POWER OF IOT – TRANSFORMATION CHRONICLES:

The Internet of Things (IoT) is a revolutionary set of rules the envisions the world, where everyday objects, devices get communicate and collaborate, bringing unprecedented levels of efficiency and convenience to our lives. In the realm of IoT, the physical world converges with the digital, creating a vast network of interconnected things. The concept of remotely connecting devices is explored in 1950s. It's early development include the invention of the first modern computer and creation of simple remote-controlled devices. The term IoT is coined by **Kevin Ashton** in early 2000s. IoT includes various fundamental concepts like wireless connectivity by utilizing protocols, sensors (devices that detect and measure physical parameters like temperature, humidity etc.) and actuators (components that respond to data), edge computing (performing data processing and analysis), cloud computing (cloud based platforms that manage, store and visualize IoT data), security and privacy. IoT empowers communication system by creating interconnected networks that enable devices to exchange data in real-time. This unleashes efficiency through improved automation, remote monitoring, and predictive analysis. In sectors like manufacturing, smart homes, and agriculture, IoT optimizes processes, and enhances responsiveness, and opens into innovation. The power of IoT in communication lies in its ability to create a faster connected world, fostering smarter, more responsive systems across diverse industries.

In summary, the integration of IoT is revolutionizing the global landscape and communication systems. The seamless connectivity between devices is not only enhancing efficiency but also fostering a more interconnected and responsive world. As we navigate this transformative era, the continued evolution of IoT promises to redefine the way we communicate, collaborate, and experience the world around us. Embracing these advancements ensures a future where connectivity is not just a technological feat, but a catalyst for unprecedented progress and innovation.



Quote: "The Internet of Things is not about connecting devices, it's about connecting people."