

# **Department of Electronics and Communication Engineering**

## **B TECH IN INDUSTRIAL INTERNET OF THINGS**

The 4-Year B.Tech. Program in Industrial Internet of Things (IIoT) is an interdisciplinary program with Electronics and Communication Engineering and Computer Science and Engineering disciplines as major constituents. It essentially comprises computer programming, artificial intelligence and machine learning, data analytics, cloud and edge computing, embedded systems, wireless technologies, and communication protocols.

The Industrial Internet of Things (IIoT) is primarily the application of IoT in industry. It covers the study of advanced digital technologies and intelligent devices to connect machines, systems, and people.

The Industry 4.0 is characterised by automation and intelligent machines leveraged by digital technologies. IIoT paves the way for this digital transformation aiming at higher efficiency, and productivity.

The program will emphasize on fundamentals of Internet of Things, Machine Learning, Sensors and Actuators, Robotics and Automation, Cloud Computing, Cyber Security, Wireless Interface Design and Big Data Analysis.

The B Tech program in IIoT will equip the graduating students to become proficient in the design, development, and implementation of intelligent solutions to the real-time problems of industry sectors. These sectors include smart manufacturing, healthcare, agriculture, space, intelligent transportation systems, and smart cities.

## **CAREER OPPORTUNITIES IN INDUSTRIAL INTERNET OF THINGS**

The field of IIoT offers a very promising career to the engineering graduates across all sectors of the industry. The graduate in IIoT can be offered different roles in industries like Automation Engineer, Data Scientist, Research Scientist, IoT Engineer etc. There is a huge demand of IIoT engineers in Industries like Samsung, LG, Whirlpool, Airtel, Tesla, Nvidia, TATA, Mahindra, L & T, IT sectors etc.