



# INTERNET OF THINGS (IOT)

The Internet of Things (IoT) is a network of physical objects, devices, vehicles, buildings, and other items that are embedded with sensors, software, and network connectivity, allowing them to collect and exchange data.



IoT enables real-time communication between devices and with humans, creating a seamless and integrated system. Data collected from sensors and other technologies can be analysed to improve processes and optimize performance.

Smart appliances and home devices, such as refrigerators, ovens, thermostats, lights, and security cameras, can be remotely controlled, self-diagnose issues, and monitored using smartphones.



Wearable fitness trackers and health monitors that can track biometric data such as heart rate, steps taken, and sleep patterns.



Industrial IoT devices such as sensors that can monitor machinery and equipment for maintenance needs and efficiency.



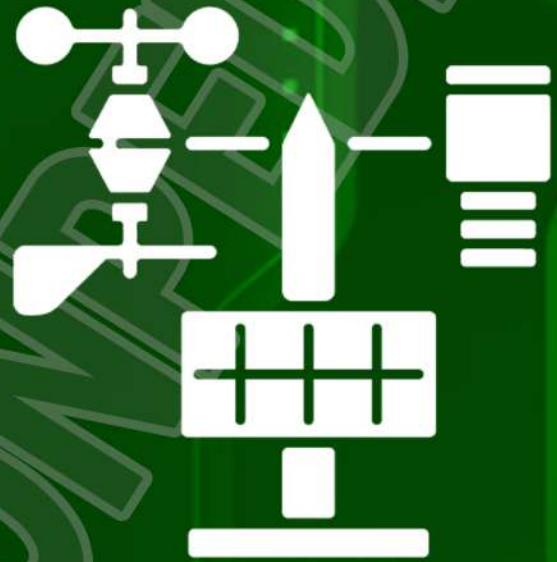
Connected vehicles that can communicate with other cars, infrastructure, and smart city systems to optimize traffic flow and improve safety.

Smart city infrastructure such as streetlights and waste management systems that can be remotely monitored and controlled for better resource management.



Healthcare devices such as pacemakers and insulin pumps that can send real-time data to doctors for monitoring and adjustments.

Agricultural sensors that can track weather conditions, soil moisture, and crop growth for better crop management and yield optimization.



Weather Condition Detection Sensor

