



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A+’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUT205 – INTERNET OF THINGS IN AUTOMOTIVE SAFETY

II YEAR /IV SEMESTER

Unit 1- Introduction

Topic 2 : Industry 4.0



CONTENT



- ❖ Introduction
- ❖ Features and Characteristics of IoT
- ❖ Applications of IoT
- ❖ Future of IoT
- ❖ Market Potential of IoT



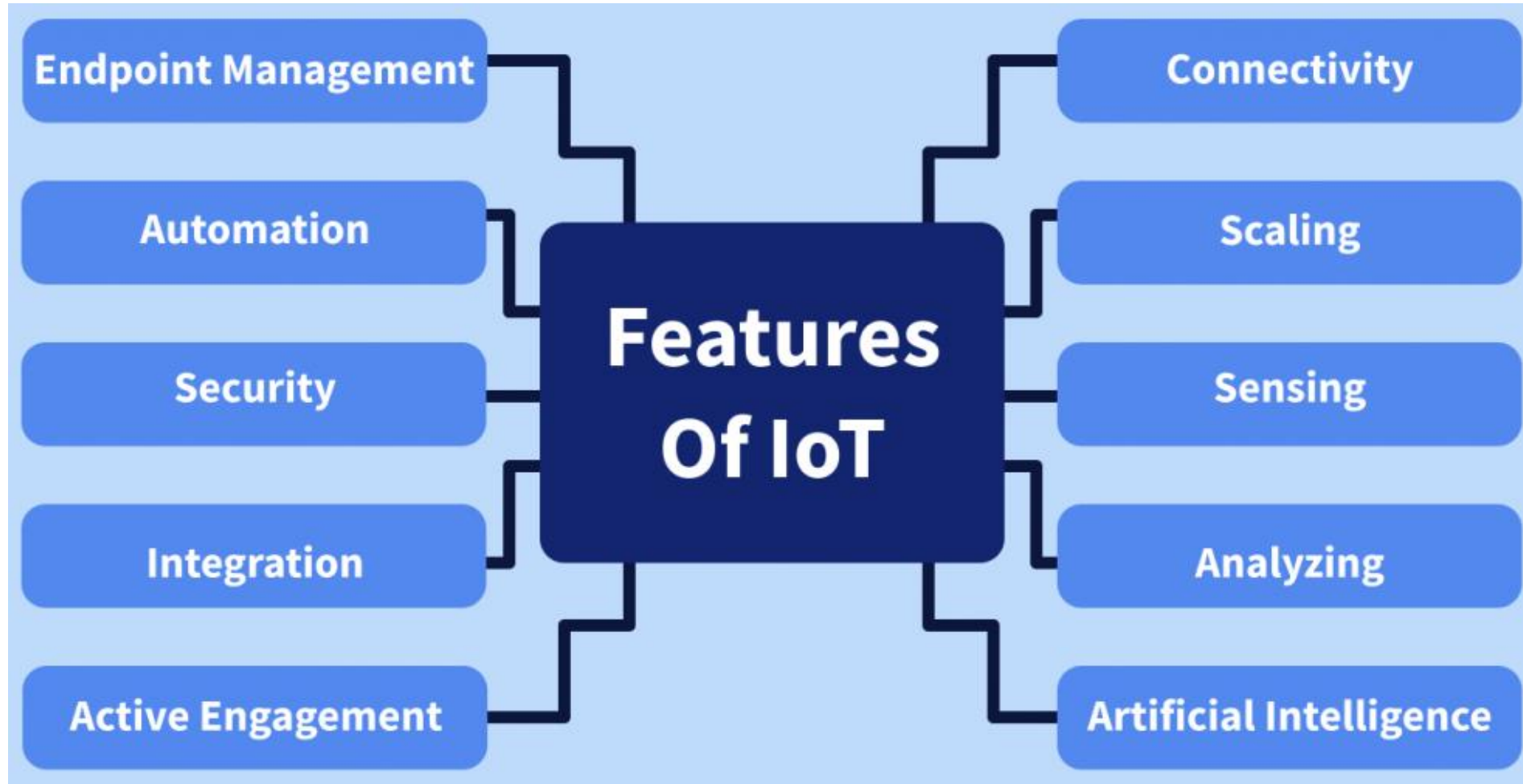
Industry 4.0



- Industry 4.0, IoT involves the interconnection of devices, machines, and systems, creating a network where data is seamlessly exchanged in real-time
- The integration of IoT in Industry 4.0 brings about a paradigm shift in traditional manufacturing
- IoT enables the creation of 'smart factories' where interconnected devices communicate and collaborate autonomously. This results in adaptive and responsive manufacturing systems that can quickly adjust to changing demands and market conditions.
- As Industry 4.0 continues to evolve, the synergy between IoT and manufacturing processes will play a pivotal role in shaping the future of industries, fostering innovation, and driving economic growth.

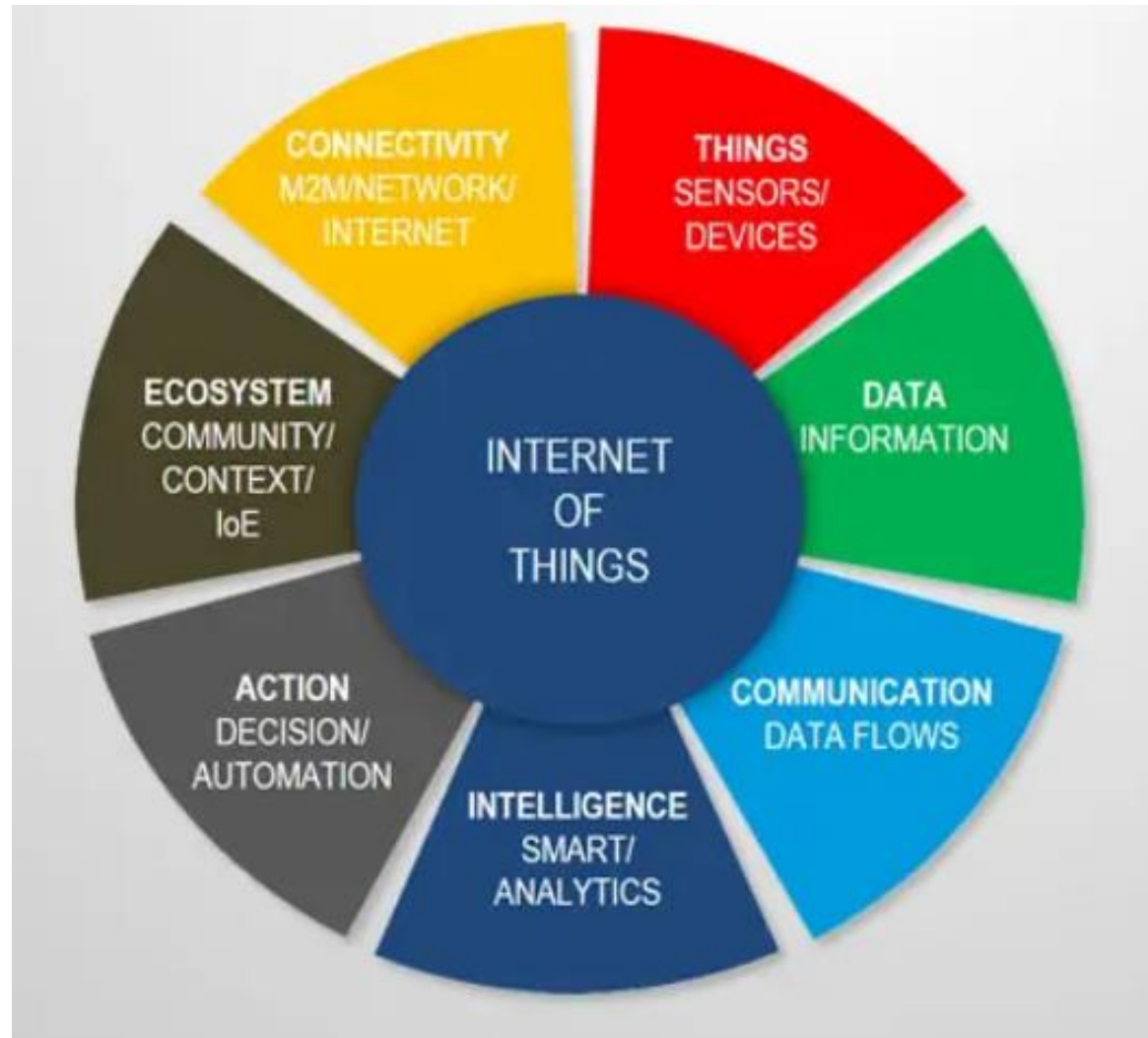


FEATURES OF IoT





CHARACTERISTICS OF IOT





APPLICATIONS OF IoT



Environmental Monitoring



Smart Home



Wearable



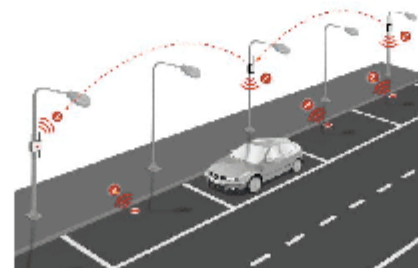
Smart Grid



Medical & Healthcare



Connected Vehicle



Smart City



Industrial Automation



FUTURE OF IoT



 <p>Artificial Intelligence and Advanced Machine Learning</p>	 <p>Intelligent Things</p>	 <p>Virtual Reality and Augmented Reality</p>	 <p>Blockchain (Distributed Ledgers)</p>	 <p>Conversational Systems</p>
 <p>Digital Platforms</p>	 <p>Adaptive Security Architecture</p>	 <p>Digital Health</p>	 <p>Big Data/Advanced Analytics</p>	 <p>Super Computing</p>



MARKET POTENTIAL OF IoT

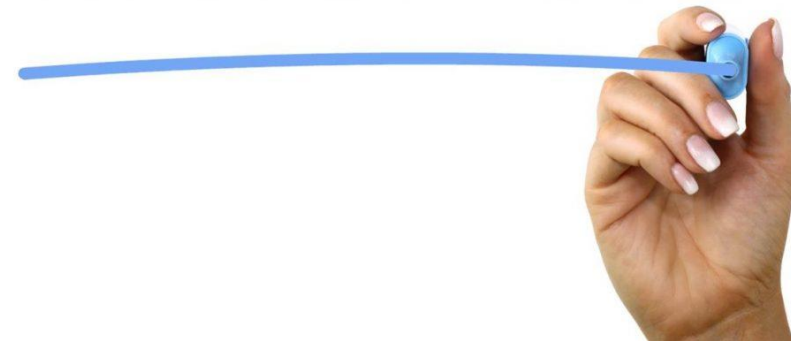


- ❖ The IoT market reached \$761.4 billion in 2020 and is expected to reach \$1.39 trillion by 2026, according to Mordor Intelligence.
- ❖ The growth is happening primarily in a few industrial sectors, namely manufacturing, retail, and health care, where IoT technology has been deployed to track illness and handle other logistics involved with pandemic abatement.
- ❖ As global infrastructure for edge computing and 5G becomes more widely accessible
- ❖ IoT is expected to be more readily available for corporate development and grow at a faster rate.



1. Mention some features of IoT
2. Mention the applications of IoT
3. what is the future scope of IoT?

ASSESSMENT





REFERENCE



- ❖ <https://www.datamation.com/trends/internet-of-things-iot-market/#market>
- ❖ <https://medium.com/@anukritisaurabh/what-is-the-future-of-iot-internet-of-things-a94182444671>



THANK YOU !!!