

## CET249 Internet of Things: Industry 4.0, What's Next?

**Level:** 2

**Credit Units:** 2.5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

### Synopsis:

The "Internet of Things" (IoT) is the next big and imminent thing as businesses start to collect data from devices ranging from mobile phones to custom devices. The independent communication between different connected devices can be used to optimise operations, reduce costs, boost productivity and more importantly, promote financial inclusion among developing countries. Within the last few years, the usage of devices has increased from millions to billions and the amount of time spent on these devices has been steadily rising. Students will learn about the functionalities of how IoT will affect the way we work, play and live.

### Topics:

- Core concepts of the IoT
- Enabling IoT applications: system, network and storage virtualisation
- IoT and data analytics
- IoT applications to business
- IoT concerns (ethical, privacy, etc)
- IoT solutions

### Learning Outcome:

- Explain how IoT is enabling data to be collected, in both urban and remote areas
- Describe how data collected from IoT devices can be used for analytics
- Identify privacy concerns by using IoT to collect data
- Discuss scenarios where industries can utilise data collected to better business decisions and customer experience
- Apply fundamental concepts in data analytics to harvest value from collected data
- Analyse IoT concerns and solutions to address physical world challenges

### Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	QUIZ 1	30
	TUTOR-MARKED ASSIGNMENT 1	30
	TUTOR-MARKED ASSIGNMENT 2	40
<b>Total</b>		<b>100</b>

