



# ESOTERIC

## *THE IT CLUB*

(IN PURSUIT OF EXCELLENCE)



# *TECHRONICLES*


TC001



# (IoT) INTERNET OF THINGS

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“The Internet of Things has the potential to change the world, just as the Internet did. Maybe even more so.”

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—**Kevin Ashton**



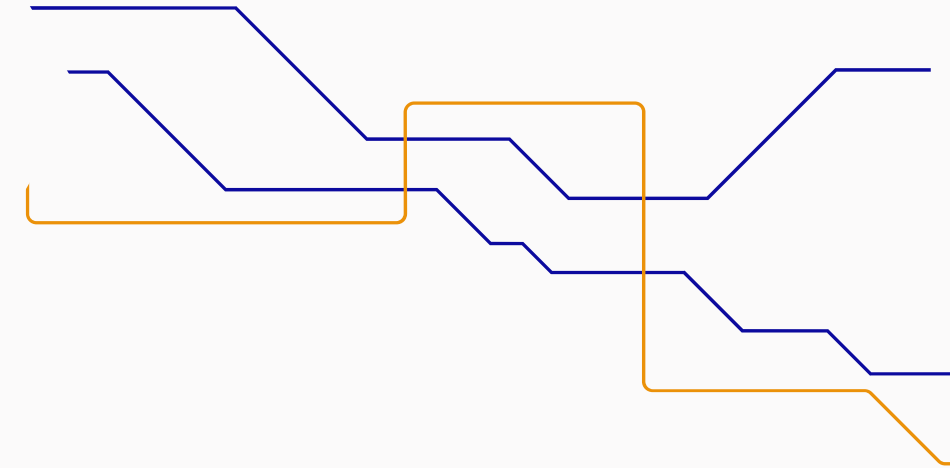
# The Expanding World of IoT

Unlocking the Potential of Connected Devices The Internet of Things (IoT) is revolutionizing industries by connecting smart devices that communicate seamlessly. With the rise of AI-driven analytics, IoT is not just about connectivity but about intelligent decision-making. As more industries integrate IoT solutions, the focus is shifting toward security, interoperability, and data-driven insights.

From smart home automation to industrial IoT, the possibilities are endless. With real-time data processing, businesses can optimize operations, predict failures, and enhance user experiences. However, challenges such as data security, scalability, and device compatibility remain significant. The future of IoT lies in overcoming these hurdles and unlocking a world of seamless connectivity.



# TERMS OF THE WEEK



## 01 IoT Gateway

You can describe the topic of the section here

## 03 IoT Sensor

You can describe the topic of the section here

## 05 Smart Home

You can describe the topic of the section here

## 02 IoT Hub

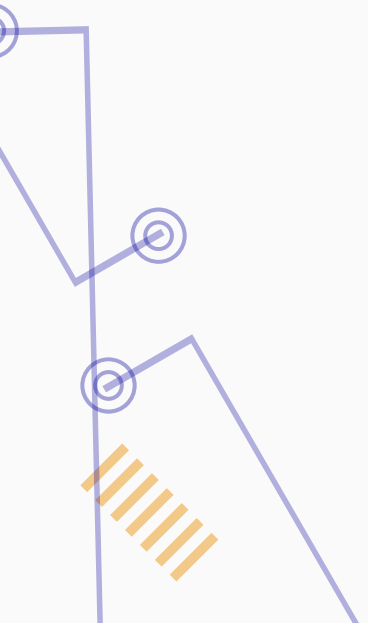
You can describe the topic of the section here

## 04 Machine-to-Machine

You can describe the topic of the section here

## 06 Wearable Device

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# NEWSFLASH



## Data analytics

IoT devices generate massive amounts of data. AI and big data analytics are now being integrated with IoT to analyse this information, allowing organisations to make better real-time decisions.



## IoT in Smart Home Security

With smart home devices becoming more accessible, IoT-driven security systems are gaining traction. Devices like smart locks, cameras, and motion sensors are now connected, enabling remote home monitoring through smartphones, enhancing convenience and security.



## Trending News

AI-powered IoT devices are transforming industries, from healthcare to smart cities.



## New Tools and Frameworks

Microsoft Azure IoT Hub and AWS IoT Core are gaining popularity for enterprise IoT applications.



## Industry Insights

Employers seek IoT expertise in data analytics, cloud computing, and cybersecurity.



## Startups and Innovations:

Startups are leveraging IoT for innovative applications like smart agriculture and predictive maintenance.

# MAKE IT HAPPEN



**Understand IoT  
Basics**



**Memory and  
Storage**



**Connectivity**



**Cellular  
Connectivity**



**Use Up-to-Date  
Software and  
Firmware**



**Check Device  
Compatibility**





# Hands On Learning

## Udemy

IoT Crash Course: World of Connected Devices – Free course introducing IoT concepts with assessments.



## Udemy

Introduction to Internet of Things and Cloud – Covers IoT fundamentals and cloud systems with quizzes.



## Udemy

Beginners Masterclass into Internet of Things – Detailed IoT course with Raspberry Pi and Azure, priced at ₹1,299.



## Cisco Networking Academy:

Cisco Networking Academy: Introduction to IoT and Digital Transformation – Free course with hands-on labs and quizzes.



## Great Learning

Free IoT Course with Certificate for Beginners – Beginner-friendly IoT course with certification.



## IoT-Open

IOT-Open: IoT MOOC Courses – Free modules covering IoT programming, hardware, and networking.



# STUDENT CORNER

Tech Quiz: Test Your IoT Knowledge



## ProProfs

Internet Of Things  
Quiz Questions And  
Answers



## Sanfoundry

IoT Online Test | Quiz



## Quizgecko:

### IoT Quiz

Test Your Knowledge  
of Internet of Things  
Devices

# Further Reading and Resources

**IoT security and  
challenges**



**Smart Home World:  
Smart Home Innovations**



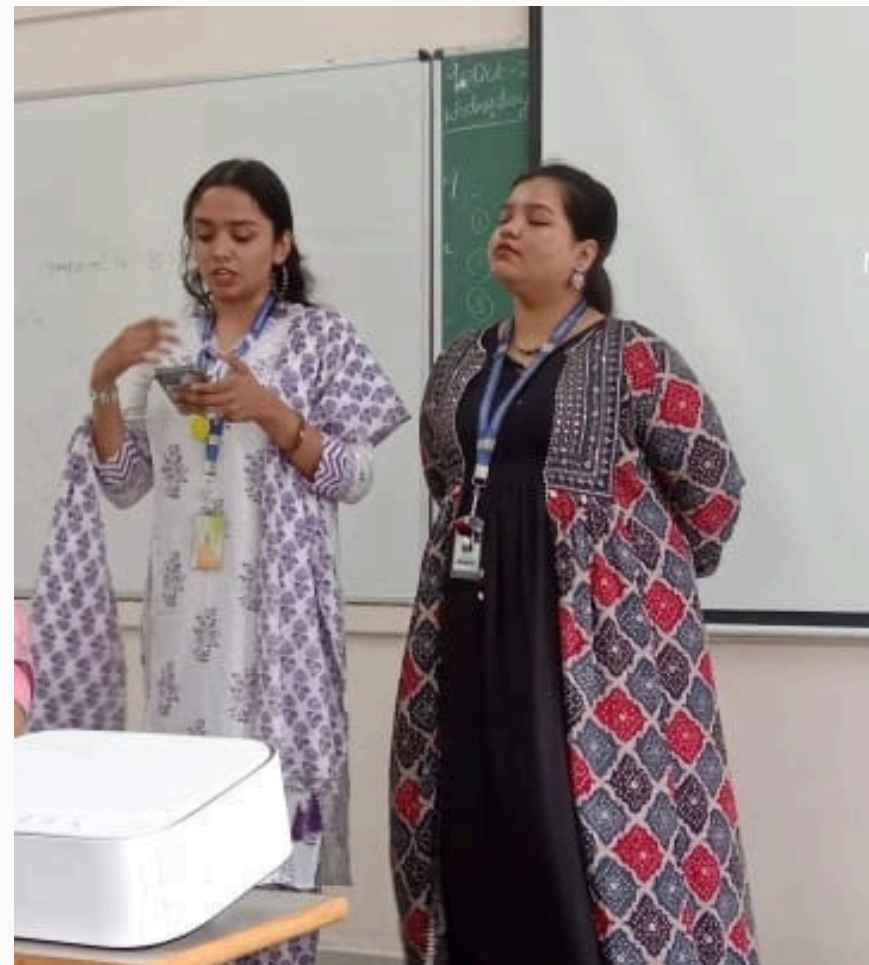
**Arxiv: Latest IoT  
Research Papers**





# Presenters

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# Thank You

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**Stay inspired stay connected**

Presenters and curators  
Ananya P  
Prathiksha P Rao

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