



# IoT Essentials: Hands-on Tech to Create a Smart World (Online Mode) June 16 – 20, 2025 Department of Computer Applications, NIT Trichy

## Overview

The "IoT Essentials: Hands-on Tech to Create a Smart World" workshop is designed to provide participants with a comprehensive understanding of the Internet of Things (IoT) through practical, hands-on experience. This workshop caters to a diverse audience, including beginners, professionals, and enthusiasts interested in IoT technology. Participants will learn how to connect devices, sensors, and actuators to the internet and gain insights into various IoT applications.

## Objectives

Upon successful completion of the course, the participant should be able to:

- Understand basic IoT concepts, including how devices communicate within an IoT ecosystem.
- Understand critical components such as sensors, actuators, communication protocols, including MQTT and HTTP.
- Connect IoT devices to cloud platforms for remote monitoring and control.

## Modules Covered

- Introduction to IoT
- Core Components & Architecture
- IoT Ecosystem and Protocols
- Cloud Platforms
- Security & Blockchain in IoT
- AI/ML Integration
- Case Studies: Smart Agriculture, Smart Home

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<b>Who Should Attend</b>	Industry experts, Faculty from reputed academic institutions and technical institutions, Student at all levels (B.Sc. /BCA /B. Tech. /M. Sc./MCA / M. Tech./Ph. D). No. of participants for the course will be limited to 100.
<b>Fees and Payment Procedure</b>	<b>Fees:</b> Industry Experts – 4000 INR, Faculty – 3500 INR, and Students – 3000 INR <b>Procedure:</b> Go to State Bank Collect (onlinesbi.sbicollect) → Accept the terms and conditions → Select category: Educational Institutions → Select State: Tamil Nadu → Select Name of the Educational Institution: Conference and Workshop NIT Trichy → select payment Category: IOTCA 2025 and provide details of payment and submit. Last Date for Registration : June 10,2025 <b>Registration Link:</b> <a href="https://forms.gle/vgbqa84kVxqrypg78">https://forms.gle/vgbqa84kVxqrypg78</a>
<b>Course Coordinators</b>	Dr.S.Saroja and Dr.Sindhia Lingaswamy, Assistant Professor, Department of Computer Applications, NIT Trichy