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DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE
(AUTONOMOUS)
Perambalur – 621 212

In Association with
THE INSTITUTION OF ENGINEERS (INDIA) – IE(I)*
&
THE INSTITUTION OF ELECTRONICS AND TELECOMM. ENGINEERS (IETE)*

Two-Day Workshop on
INDUSTRIAL IoT
USING
LoRaWAN TECHNOLOGY
12.10.2023 & 13.10.2023 | 9:30 a.m. – 4:30 p.m.
College Premises

Workshop Highlights

- ✓ Fundamentals of Industrial IoT (IIoT)
- ✓ LoRa & LoRaWAN Architecture
- ✓ LoRaWAN Network Deployment
- ✓ Hands-on with LoRa Modules & Gateway
- ✓ Smart Industrial Monitoring
- ✓ Cloud Integration & Real-Time Dashboard

Presides
Shri. A. Srinivasan
Esteemed Chancellor
Dhanalakshmi Srinivasan University

• Certificate will be provided to all participants
• Limited Seats – First Come First Serve

ALL ARE WELCOME

AGENDA

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Two-Day Workshop on
INDUSTRIAL IoT
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12.10.2023 & 13.10.2023 | 9:30 a.m. – 4:30 p.m.

DAY 1 Fundamentals & Architecture

09:30 – 10:00 AM Registration & Welcome Kit Distribution

10:00 – 10:20 AM **Inaugural Function**

- Welcome address
- Industry 4.0 Overview
- Smart Factory Concepts

11:30 – 11:45 AM **Session 1: Introduction to Industrial IoT (IIoT)**

- Evolution of IoT to IIoT
- Industry 4.0 Overview
- Smart Factory Concepts

11:30 – 11:45 AM **Tea Break**

Session 2: LoRa & LoRaWAN Fundamentals

- LPWAN Technologies Overview
- LoRa Physical Layer
- LoRaWAN Protocol Stack
- Device Classes (A, B, C)

01:00 – 02:00 PM **Lunch Break**

Hands-on Session 1

- Configuring LoRa Modules
- Basic Sensor Integration
- Data Transmission Demo

DAY 2 Deployment & Applications

09:30 – 10:00 **Recap of Day 1**

10:00 – 11:15 AM **Session 4: LoRaWAN Network Deployment**

- Gateway: Setup
- Frequency Bands
- Range & Coverage Planning
- Security & Encryption

11:15 – 11:30 AM **Tea Break**

Hands-on Session 2:

- Connecting Sensors to LoRa Node
- Gateway Communication Testing
- Data Monitoring

01:00 – 02:00 PM **Lunch Break**

Session 5: Cloud Integration & Dashboard

- MQTT Basics
- Cloud Platforms
- Real-Time Data Visualization
- Industrial Monitoring Case Study

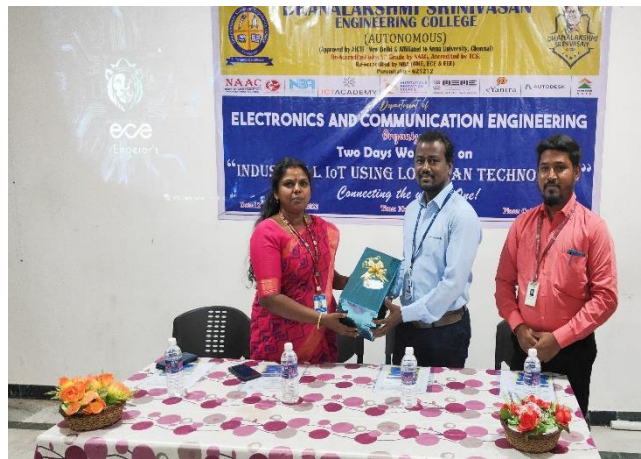
03:00 – 03:30 PM **Mini Project Activity**

04:00 | **Discussion & Q/A**

04:00 | **Valedictory Function**



Welcome Speech by **Mr.C.Sathiskumar,** Assistant Professor/ECE.



Honouring the Resource Person



Training Sessions



Certificate Distributions



DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

(AUTONOMOUS)

[Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai]
Re-Accredited with 'A' Grade by NAAC, Accredited by TCS,
Accredited by NBA (AERO, BME, CSE, ECE, EEE, IT & MECH)

PERAMBALUR - 621 212



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

We Cordially Invite you for the

ASSOCIATION INAUGURAL FUNCTION (HERTZ) AND
ONE DAY SEMINAR

on

"VLSI-ASIC System Design For Next
Generation IoT and SoC Implementations"



Presided By
Shri. A. SRINIVASAN
Honourable Chancellor,
Dhanalakshmi Srinivasan University



Chief Guest
Dr. R. MURALI KRISHNA
Assistant Professor,
National Institute of Technology,
Tiruchirappalli

Sponsored by
Dr. SHANMUGASUNDARAM

Date: 30.08.2024 Friday | Time: 10:00 a.m.
Venue: College Premises

All Are Welcome







