

# BVRIT HYDERABAD College of Engineering for Women AUTONOMOUS

## (Approved by AICTE, Affiliated to JNTUH) (Accredited by NBA – EEE, ECE, CSE & IT and NAAC with 'A' Grade)

**Event Name:** Workshop Report on Advanced Embedded Systems and IoT Technologies

Date (s) of Conduction: 2nd - 4th December 2023

Name of the Resource Person with Details (if any)

No. of Participants: 8 (ECE Students), 2 (EEE Students)

Organized by: Department of Electronics and Communication Engineering,

BVRIT HYDERABAD College of Engineering for Women.

#### **About the Event:**

This three-day workshop provided comprehensive insights into Embedded Systems and IoT technologies, emphasizing practical applications in diverse fields, including healthcare and AI.

#### Day 1 Highlights:

- Morning: Introduction to Embedded Systems, covering essentials like communication protocols and hardware/software aspects, led by R. Anirudh Reddy and T. Pardhu.
- **Afternoon**: Detailed exploration of STM32Cube IDE and STM32 hardware development boards by T. Pardhu, with support from R. Anirudh Reddy.

### Day 2 Highlights:

- **Morning**: A focused session on ARM architecture by Prof Ashok.
- **Afternoon**: Interfacing and data analysis with X-CUBE-MEMS sensors on STM32 Boards, conducted by T. Pardhu and R. Anirudh Reddy.

#### Day 3 Highlights:

- **Morning**: Introduction to Bluetooth technology and its protocols in IoT by Dr. Vamsi Krishna, followed by an exploration of STM32Cube.AI and IoT Discovery Kit.
- **Afternoon**: Development of an Embedded AI-based Human Activity Recognition System by R. Anirudh Reddy and T. Pardhu.

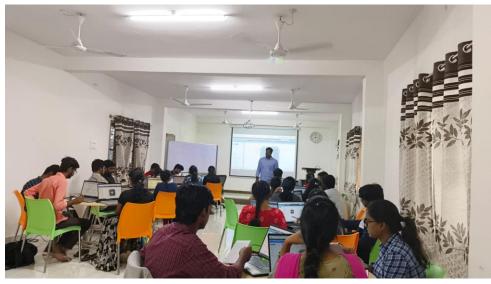
The workshop integrated theoretical knowledge with hands-on experience, equipping participants with skills relevant to current technological trends.

## **Photos:**









Signature of Faculty Co-ordinator

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