

**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**

**Sign of HoD**

