



**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:*** Two Days Hands-on Workshop on “Introduction to Industry 4.0 and Industrial Internet of Things”

***Date (s) of Conduction:*** 15<sup>th</sup> and 16<sup>th</sup> July 2024

***Name of the Resource Person with Details (if any):*** Mr. Baradwaj Arvapally  
Co-Founder @ AB Tech  
Ville LLP, Hyderabad

***No. of Participants:*** 64

***Organized by:*** Ms. Padmavati E. Gundgurti, Ms. Suparna Das  
Department of Computer Science and Engineering  
Ms. A Naga Kalyani  
Department of CSE (AI&ML)  
Ph: 8088977999, 96141 35599

***About the Event:*** A Hands-on Workshop on "**Introduction to Industry 4.0 and Industrial Internet of Things**" was conducted by Mr. Baradwaj Arvapally, Co-Founder @ ABTechVille LLP on 15<sup>th</sup> and 16<sup>th</sup> July 2024 (Monday & Tuesday). Ms. Padmavati E Gundgurti, Ms. Suparna Das, Assistant Professors, Department of CSE, and Ms. A Naga Kalyani, Assistant Professor, Department of CSE (AI&ML), acted as the coordinators, and 64 students of the III year of CSE, IT, and CSE (AI&ML) branches utilized this opportunity.

***Student Coordinators:*** Ms. Ananya - Ph: 8688768210

Ms. T Kiranmayee - Ph: 7842158948

## Brief Profile of Resource Person



To introduce a distinguished guest who has made significant contributions to the fields of IoT, blockchain, and emerging technologies. Please join me in welcoming Mr. Baradwaj Arvapally, the Co-Founder of AB Tech Ville LLP, to our esteemed BVRITH Hyderabad College of Engineering for Women.

Sir brings with him over 7 years of rich experience in product development and mentoring. He holds two patents and one copyright, reflecting his dedication and innovation in the technology space. His expertise has been a guiding light for more than 22 startups through T-Hub, demonstrating his unwavering commitment to fostering innovation and entrepreneurship.

Throughout his career, sir has conducted over 200 sessions, training more than 100,000 students, faculty members, and working professionals. His influence extends beyond academia and industry, as he has served as a jury member for the grand finale of the Smart India Hackathon 2022 and numerous other national-level programs. Additionally, he is a proud mentor at the Atal Innovation Program, championing the "Mentor for Change" initiative.

His impressive work experience includes roles such as Associate Product Manager, Manager of R&D and Solutioning, and Senior IoT Engineer at IoT Research Labs. He has also contributed significantly as an IoT engineer at Idea Labs Future Tech Ventures.

Sir's academic background is equally commendable, with an MBA from the University College of Management, JNTUH, and a B.Tech in Electronics and Communication Engineering from St. Martin's Engineering College, Dhulapally. He has also excelled in various faculty development programs, sharing his knowledge on IoT, blockchain, AI, and cloud computing across prestigious institutions and programs.

Today, we are fortunate to have him here to conduct a hands-on workshop on "Introduction to Industry 4.0 and Industrial Internet of Things." His insights and expertise are invaluable, and we are eager to learn from him.



## **BVRIT HYDERABAD College of Engineering for Women**

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**Bachupally, Hyderabad-090**

**Academic Year: 2024-2025**

**Date: 11-07-2024**

### **CIRCULAR**

All the students of B.Tech III Year (CSE, CSE-AIML & IT) are hereby informed that a Workshop is being conducted this Monday & Tuesday **15th and 16th July 2024** on "**Introduction to Industry 4.0 and Industrial Internet of Things**". All students of III year should take part in hands-on workshop.

Details of the Workshop:

**Title: "Introduction to Industry 4.0 and Industrial Internet of Things"**

**Resource Person: Mr. Baradwaj Arvapally**  
Co-Founder @ ABTechVille LLP

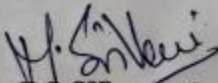
**Date & Time: 15th & 16th 2024, 10.00 AM to 4.20 PM**

**Location: 205 & 206 Lab, DB-2nd Floor.**

Faculty Coordinator:

Ms. Padmavati E Gundgurti, Ms. Suparna Das  
Department of Computer Science and Engineering  
Ph: 8088977999, 96141 35599

Student Coordinators: Ms. Ananya - Ph: 8688768210  
Ms. T Kiranmayee - Ph: 7842158948

  
HOD-CSE

  
Principal

Copy to:  
Principal Office  
All HoDs  
Department Notice Boards III-Year Class Room Notice Boards.

**Objectives:**

- Understand the key principles and components of Industry 4.0.
- Explore the technological advancements driving the fourth industrial revolution.
- Stay updated on the latest trends and future directions in Industry 4.0 and IIoT.
- Explore emerging technologies such as AI, machine learning, and edge computing in the industrial context.
- Discuss the impact of Industry 4.0 and IIoT on the workforce and industrial landscape.

**Outcome:**

The students who participated in the workshop were able to:

- Understand different job roles in the IoT industry 4.0 and the related problems.
- Interact with the industry expert and get their doubts clarified during the hands-on training.

**Topics Covered During Workshop****Day 1: Basics and Practical Problems**

- Connected basic shields, servo motors, and NodeMCU.
- Worked on various problems:
- Traffic light blinking.
- LED blinking.
- Light blinking.
- Servo motor rotation.
- Emphasized hands-on learning to understand the fundamentals of IoT hardware connections.

**Day 2: IoT App Development**

- Created an IoT app to detect humidity and temperature.
- Utilized the MIT Mobile Application website and Firebase for development.
- Started the session with a comprehensive introduction:
- Definition of IoT.
- Benefits of IoT in various sectors.
- Real-world applications of IoT.
- Overview of IoT architecture.
- The project culminated with the successful implementation of the IoT app,

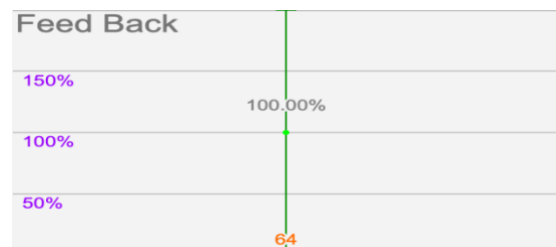
reinforcing the theoretical knowledge with practical experience. This structured approach helped in cementing the concepts of IoT and their practical applications and completed projects.

### Details of the Workshop:

- III-year CSE, IT, and CSE (AI&ML) students taking up the proposed advanced training were asked to register for the workshop. A total of 64 students enrolled for the workshop.
- The students, along with the faculty coordinator and lab technician (Mr. Mohan from the CSE Department), assembled in the 206 labs by 9.30 a.m. Dr. Indra Sena Reddy oversaw the progress of the workshop during the whole FN and AF sessions.
- Students were given a brief about the various options in IoT.
- Everyone took a lunch break from 12:30 PM to 1.00 PM.
- The workshop concluded at 4.00 PM and group photo.
- After felicitating the resource person and announced intern selected student Ms. N. Ramani Mrudula (Roll No. 21WH1A05F4, Class: CSE-C).
- Everyone left for the day after the participants filled out the online feedback form.

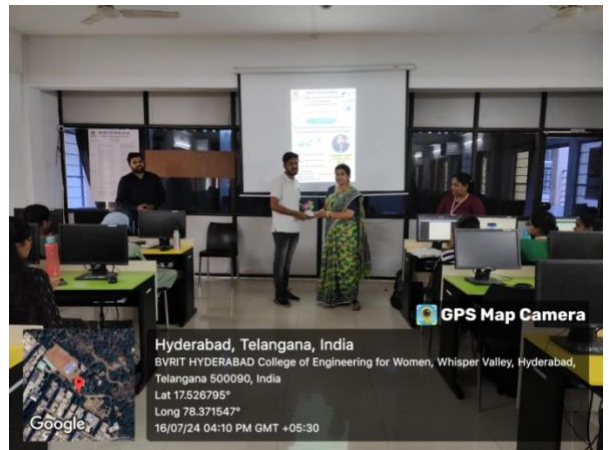
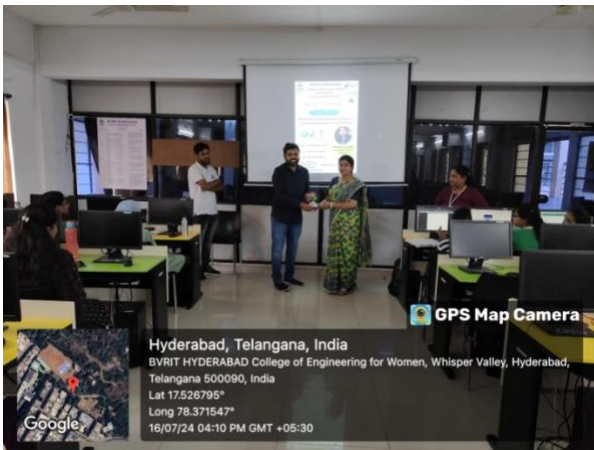
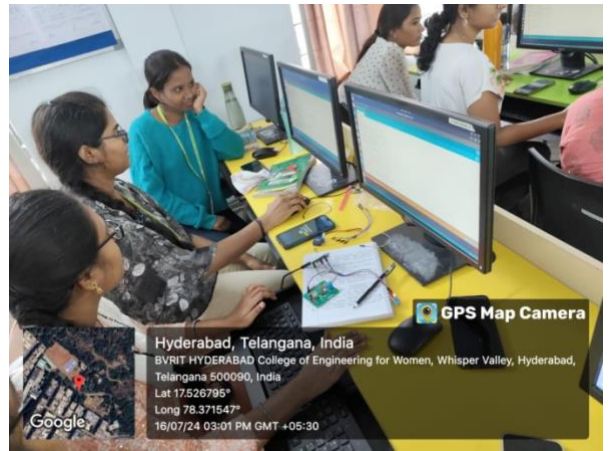
### Feedback

<u>Sl.no</u>	<u>Options</u>	<u>Students feedback</u>
1	Excellent	64



### Photos





## Student Selected for Internship



*Suparna Das*

*[Signature]*  
Faculty Signs

*[Signature]*

HoD-CSE