Workshop Objectives

- This one-week workshop on " Internet of Things Hardware Design Approach with Arduino Uno " is designed to provide learners with a comprehensive understanding of the fundamental concepts of Internet of Things, Arduino Uno, along with interfacing of sensors and actuators.
- The workshop focuses on hands on practice with Tinkercad & Arduino Uno based hardware design.
- The workshop helps learners to understand the essential concepts for the development of simulator and hardware based mini-projects using Arduino Uno.

Workshop Outcomes

After the completion of this workshop, participants will be able to:

- Understand basics of Internet of Things, use cases and real-world research applications.
- Learn Tinkercad and Arduino basics.
- Interface various sensors & actuators with Arduino Uno.
- Send sensor data on Thing Speak platform using Arduino Uno and ESP8266.
- Develop agriculture monitoring system project from the scratch.
- Monitor real-world data on the cloud platform for various applications.

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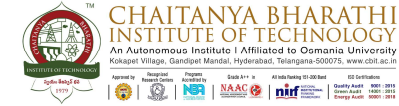Professor, Dept. of EEE

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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION
45 years

Department of Electrical and Electronics Engineering

One Week
Workshop on

"**Internet of Things Hardware Design Approach with Arduino Uno**"

27th to 31st August 2024

(Offline Mode)

Chaitanya Bharathi Institute of Technology

(Autonomous under UGC)
Affiliated to Osmania University
Kokapet (Village), Gandipet,
Hyderabad – 500075
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Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, a pioneer in Telangana State, which is at the idyllic surroundings of Gandipet Lake, Hyderabad. The college offers 12 UG and 10 PG programs. It has been standing as a temple of knowledge for the past 45 years by producing more than 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the world. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC–UGC with 'A++' Grade and several programs are accredited by NBA – AICTE. The UGC has granted Autonomous Status from the Academic Year 2013-14 onwards. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations, Industries in Engineering and Management and Consultancy Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best Private Engineering Colleges in both the Telugu Speaking States.

About Department

CBIT started the Electrical & Electronics Engineering UG program in 1994 and has been accredited 5 times since 2004 by NBA. The recent accreditation in 2021 is for 6 years. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems and power Electronics in 2006 with an intake of 18 and was accredited by the NBA in the year 2016. The department has received grants worth around ₹90 lakhs from AICTE under RPS, SPARC, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹21 lakhs in collaboration with Foreign Universities in Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as a Research Centre in 2017 by Osmania University to carry out research for the award of Ph.D. degrees.

About Workshop

This One week Workshop on "Internet of Things: Hardware Design Approach with Arduino Uno" will help learners to get insights into the essential concept of the Internet of Things, Arduino Uno, along with interfacing of sensors and actuators. The workshop focuses on hands on practice with Tinkercad & Arduino Uno based hardware design. Furthermore, it will help learners to understand the essential concepts for development of simulator and hardware based mini projects using Arduino Uno. The practical oriented sessions are expected to raise confidence of the learners to implement real-world projects using IoT concepts. Moreover, participants will also learn to monitor real world data on the cloud platform (Thing Speak) to lead IoT projects for various applications.

Workshop Registration Link

https://forms.gle/9iHTghd4NXTkmk4v8

Workshop Registration QR Code

Resource Persons

Dr. Jagriti Saini
Founder, Eternal RESTEM, Chandigarh **India**

Registration Fee

Students / Research Scholars/ Technical Staff	₹300
Faculty/Industry Participants	₹500

Online Payment Details

Acc. Name: CBIT fee collection and other receipts
Account Number: 180401001195
RTGS / NEFT IFS Code: ICIC0004385

Online Payment QR Code

Note:
Registration is limited to first 40 Participants.