

Value Added Course Objectives

- ❖ Develop a strong foundation in Embedded Systems, Arduino, ESP32, and Internet of Things (IoT).
- ❖ Provide hands-on experience in sensor interfacing, embedded communication protocols, and real-time IoT system development.
- ❖ Enable learners to design cloud-connected IoT solutions using modern IoT platforms.
- ❖ Introduce Python programming, data analytics, exploratory data analysis (EDA), feature engineering, and machine learning techniques.
- ❖ Develop practical skills to build intelligent AIoT applications by integrating IoT hardware, cloud platforms, machine learning, and interactive dashboards.
- ❖ Familiarize participants with emerging AIoT technologies, Industry 4.0, Edge AI, and intelligent engineering applications.

Value Added Course Outcomes

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

- ❖ Configure and program Arduino and ESP32 boards for embedded IoT applications. Interface sensors and implement embedded communication protocols for real-time data acquisition.
- ❖ Design cloud-enabled IoT applications using ThingSpeak and Blynk IoT platforms.
- ❖ Perform data pre-processing, visualization, exploratory data analysis, and feature engineering using Python. Develop and evaluate classification and regression models for solving engineering problems.
- ❖ Integrate IoT systems with machine learning models to build intelligent AIoT applications and dashboards.

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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

47
years

Department of Electrical and Electronics Engineering

One Week

**National Level
Value Added Course**

on

**AIoT and Machine Learning for
Intelligent Engineering
Applications**

3rd – 7th August 2026



**Chaitanya Bharathi
Institute of Technology**

(Autonomous under UGC)

Affiliated to Osmania University

Kokapet (Village), Gandipet,

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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 amongst 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 Value Added Course

The 30-Hour Value Added Course on "AIoT and Machine Learning for Intelligent Engineering Applications" is designed to provide participants with practical knowledge of Embedded Systems, Internet of Things (IoT), Cloud Computing, Python Programming, Data Analytics, and Machine Learning. The course builds a strong foundation in embedded programming, sensor interfacing, IoT communication, and cloud-based data acquisition, preparing learners for Industry 4.0 and intelligent engineering applications.

The course emphasizes hands-on learning through Arduino, ESP32, IoT sensors, ThingSpeak, Blynk IoT, Python, and machine learning. Through laboratory sessions, case studies, and mini-projects, participants will develop end-to-end AIoT solutions by integrating IoT hardware, cloud platforms, data analytics, and machine learning models, while gaining exposure to emerging technologies such as Edge AI and Industry 4.0.

Value Added Course Registration Link

<https://forms.gle/8iuetGhddHvo2HTs6>

Registration Fee

All Students & Other participants: ₹500



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EEE Department Front View



Artificial Intelligence of Things