

Department of EEE, CBIT

Short Term Course (STC) on AI using MATLAB

30th September to 25th November 2023
(only on Saturdays and Sundays)

Course Content

- ❖ Hands-on MATLAB SIMULINK/Programming
- ❖ Implementation complex codes for mathematical operations.
- ❖ Formulating Electrical operations in MATLAB environment
- ❖ Basics of Machine Learning
- ❖ Application of Machine Learning in Electrical Engineering Applications

E-Certificate will be provided through email only.



Organizing Committee

Chairperson

Prof. C. V. Narasimhulu
Principal, CBIT

Convener

Dr. M. Balasubbareddy
Professor & HOD/EEE

Coordinators

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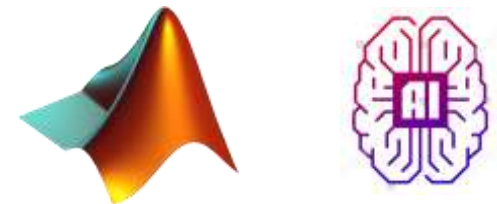
COMMITTED TO
RESEARCH AND
EDUCATION
45
years

Department of Electrical and Electronics Engineering



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Chaitanya Bharathi Institute of Technology

(Autonomous under UGC)
Affiliated to Osmania University
Kokapet (Village), Gandipet,
Hyderabad – 500075
Telangana State, India.

Chaitanya Bharathi Institute of Technology (CBIT)

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Twelve UG and Ten PG programs. It has been standing as a temple of knowledge for the past 45 years by producing about 30,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. CBIT Students are prepared and perfected to secure Placements in reputed MNCs. The Institute has been accredited by NAAC – UGC with 'A++' Grade and various 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 was accredited 5 times i.e. in the years 2004, 2008, 2013, 2017 & 2021 by NBA. The intake was increased from 60 to 120 in the Academic Year 2013-14. The Department started offering a PG course in Power Systems & Power Electronics in 2006 with an intake of 18 and was accredited by NBA in the year 2016. The department has received grants worth around ₹1 crore from AICTE under RPS, SPARC, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹24 lakhs in collaboration with Foreign Universities in the domain of Renewable Energy Systems. The Department is also certified by ISO 9001:2015. The Department is recognized as Research Centre in 2017 by Osmania University to carry out research for the award of a Ph.D. degree.

About Short-Term Course (STC)

Artificial intelligence, often abbreviated as AI, emulates intelligent human behavior through computer systems. These systems are engineered to perceive their surroundings, comprehend various actions and responses, and execute tasks autonomously. Take self-driving cars as an example: they incorporate AI algorithms like machine learning and deep learning within intricate settings to achieve automation.

MATLAB can significantly reduce data preprocessing time using apps and data types, regardless of whether you're working with time-series sensor data, images, or text. MATLAB's high-level functions streamline tasks like synchronizing disparate time series, replacing outliers with interpolated values, filtering noisy signals, splitting raw text into words, and more. Additionally, MATLAB enables quick data visualization to spot trends and identify data quality issues through plots and the Live Editor.

MATLAB apps also automate the process of ground-truth labeling for image, video, and audio data. Furthermore, when you need to test algorithms before obtaining actual sensor or equipment data, you can create synthetic data using Simulink. This method is commonly employed in automated driving systems like adaptive cruise control, lane-keeping assist, and automatic emergency braking



Resource Persons

Dr. M. Balasubbareddy
Dr. K. Krishna Veni
Dr. T. Sudhakar Babu



EEE department Front View



R&E Hub Top View

Registration Link:

<https://forms.gle/xYzuz1nVPrhb5tJt7>

Last date for the registration is 29/09/2023.