EVENT REPORT

One-Week In-House Faculty Development Program (FDP)
"MATLAB/Simulink for EV, Signal Processing, Optimization & AI"
Organized by
Departments of **ECE** & **EEE**

Institution : Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad – 500 075, Telangana, India

Duration : 15th December 2025 – 20th December 2025

Mode : Offline - In-House | Hands-on Training Program

Target Participants : Faculty Members, Non-Teaching Staff, PG & UG Students

Program Coordinators
Dr. T. Aravinda Babu
Assistant Professor, Department of ECE

Dr. R. Vijay
Assistant Professor, Department of EEE

Conveners
Dr. K. Vasanth
Professor & Head, Department of ECE

Dr. M. Balasubba Reddy
Professor & Head, Department of EEE

Academic Year
2025–2026

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Prepared by:
Department of ECE & Department of EEE
Chaitanya Bharathi Institute of Technology (CBIT)

Dt:09-12-25,
Hyderabad.

To
The Principal,
CBIT.

(Through proper channel)

Respected Sir,

Sub: "Request for the permission to conduct In-House MATLAB training program during 15th to 20th December, 2025" – Reg.,

It is proposed to organize a one-week In-House MATLAB Training Program on **"MATLAB/Simulink for EV, Signal Processing, Optimization & AI" In Collaboration with ECE & EEE Departments** during 15th–20th December, 2025 at our Institute. offline event

In this regard, we kindly request you to grant permission to conduct the program and to provide the necessary support and items required for its successful conduction.

S.No.	Item	Quantity	Cost
1	Mementos(Expert from ARKANCE Pvt. Ltd)	1	575/-
2	Banner (6 feet X 6 feet)	1	1,000/-
3	Shawl (Expert from ARKANCE Pvt. Ltd)	1	500/-
4	Snacks(tea & biscuits) (6days@30)	40 participants	7,200/-
5	Lunch (Expert from ARKANCE Pvt. Ltd) (2days@150)	1	300/-
Total			**9,575/-**

Thank you sir,

To purchase dept & n.a

Yours Sincerely,
Dr.T. Aravinda Babu, Coordinator.
Dr. R.Vijay, Coordinator

Received original
10.12.25
forwarded to Vice principal, Admin

9/12/25

To A/c dept

Recommended & forwarded

10/12/25

10/12/25

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
An Autonomous Institute | Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in

Approved by | Affiliated to | UGC Autonomous | 12 Programs Accredited by NBA | Grade A++ in NAAC | All India Ranking 151-200 Band nirf | Certified by ISO 21001 : 2018

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

47 years

One-week In-house MATLAB Training Program on

MATLAB/Simulink for EV, Signal Processing, Optimization & AI

15th to 20th Dec 2025

Chief Patron

Sri. N. Subash, President, CBIT

Patron

Prof. C. V. Narasimhulu, Principal, CBIT

Advisory Committee

Prof. P.V.R. Ravindra Reddy, Vice Principal-Admin
Prof. K. Krishnaveni, Vice Principal- Academics
Prof. N. V. Koteswara Rao, Director -IQAC
Prof. Suresh Pabboju, Director -AEC & CoE
Prof. D. Krishna Reddy, Director R & D
Prof. P. Prabhakar Reddy, Director-Academics
Prof. B. Linga Reddy, Director- SAP
Prof. Umakanta Chaudhury, Advisor – I & I
Dr. N. L. N. Reddy, Advisor – CDC

Conveners

Dr. M.Balasubbareddy, HoD - EEE
Dr. K. Vasanth, HoD - ECE

Coordinators

Dr. T. Aravinda Babu, AP / ECE

Dr. R. Vijay, AP / EEE

Registration Details

Registration Link and QR Code below:
https://tinyurl.com/joinmatlab

Important Dates:

Last date for Registration: **14.12.2025**

Dates: ***15th – 20th December 2025***

Mode: Physical

Topics

- MATLAB/ Simulink: Introduction
- Machine Learning Toolbox
- Deep Learning Toolbox
- Simulation of Electric Vehicle
- Implementation of Optimization Techniques using MATLAB
- HDL Code Generation using MATLAB
- Embedded Hardware Interfacing with MATLAB
- Application of Signal Processing & Image Processing

Objectives

- To strengthen participants' skills in MATLAB and Simulink for modeling, simulation, and analysis.
- To provide hands-on exposure to machine learning, deep learning, optimization, EV simulation, and hardware interfacing tools.
- To enhance teaching and research capabilities using modern computational techniques for real-world engineering applications.

Outcomes

After completion of the FDP, participants will be able to

- ✓ Model, simulate, and analyze engineering systems using MATLAB and Simulink.
- ✓ Apply machine learning, deep learning, optimization, and EV simulation tools to solve practical engineering problems.
- ✓ Gain hands-on experience with hardware interfacing, HDL code generation, and signal/image processing, enhancing their teaching and research capabilities.

Address for Communication

Dr. T. Aravinda Babu & Dr. R. Vijay

Coordinators

aravindababu_ece@cbit.ac.in|+91-9553717779

vijayr_eee@cbit.ac.in | +91-9952322511

One week In-house MATLAB Training Program

on

"MATLAB/Simulink for EV, Signal Processing, Optimization & AI"

In Collaboration with ECE & EEE Departments

15th – 20th December, 2025

Day/Time	10.00 AM to 12.30 PM		Lunch Break	01.30 PM – 04.00 PM	
15-12-25 Day-1	10AM-10.30PM Inaugural Function	**MATLAB : Introduction** (Prof. N.V. Koteswara Rao, Director-IQAC, Dept. of ECE, CBIT)		**Simulink: Introduction** (Dr T. Murali Krishna, Associate Professor & Associate Director-IQAC, Dept. of EEE, CBIT)	
16-12-25 Day-2	**Machine Learning Toolbox** (Ms. P. Chandana -Application Engineer – MATHWORKS, ARKANCE IN Private Limited)			**Deep Learning Toolbox** (Ms. P. Chandana -Application Engineer – MATHWORKS, ARKANCE IN Private Limited)	
17-12-25 Day-3	**Electric Vehicle-1** (Ms. P. Chandana -Application Engineer – MATHWORKS, ARKANCE IN Private Limited)			**Electric Vehicle-2** (Ms. P. Chandana -Application Engineer – MATHWORKS, ARKANCE IN Private Limited)	
18-12-25 Day-4	**Implementation of Teaching Learning based Optimization (TLBO) in MATLAB** (Prof. M. Balasubba Reddy, Head, Dept. of EEE, CBIT)			**Optimization Techniques using MATLAB** (Dr. R.Vijay, Assistant Professor, Dept. of EEE, CBIT)	
19-12-25 Day-5	**HDL code generation using MATLAB** (Dr. K.Vasanth, Head & Associate Professor, Dept. of ECE, CBIT)			**Embedded hardware interfacing with MATLAB** (Dr. G. Mallikharjuna Rao, Assistant Professor, Dept. of ECE, CBIT)	
20-12-25 Day-6	**Application of Signal Processing using MATLAB** (Dr. T. Aravinda Babu, Assistant Professor, Dept. of ECE, CBIT)			**Application of Image Processing using MATLAB** (Prof. P. Narahari Sastry, Professor, Dept. of ECE, CBIT)	**03.30PM to 04.00PM Valedictory Function**

Coordinators
Dr. T. Aravinda Babu & Dr. R. Vijay

Head Dept. of EEE

Head Dept. of ECE

Principal

Event Report

One-Week In-House MATLAB Faculty Development Program

"MATLAB/Simulink for EV, Signal Processing, Optimization & AI"

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1. Event Details

- **Dates:** 15th – 20th December 2025
- **Venue:** CDC Lab 4, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad – 500 075, Telangana, India
- **Organizing Departments:** Electronics and Communication Engineering (ECE) & Electrical and Electronics Engineering (EEE)
- **Daily Schedule:** 10:00 AM – 12:30 PM (FN Session) | 01:30 PM – 04:00 PM (AN Session)

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2. Inauguration & Chief Guest Details

The FDP was formally inaugurated on **15th December 2025**. The inaugural session marked the commencement of a six-day intensive hands-on training program.

The One-Week In-House Faculty Development Program (FDP) on *"MATLAB/Simulink for EV, Signal Processing, Optimization & AI"* commenced with an inaugural function held on **15th December 2025**. The session marked the formal beginning of the six-day intensive training program and set the academic tone for the FDP. The dignitaries highlighted the significance of advanced computational tools in modern engineering education and research, emphasizing outcome-based learning, industry relevance, and sustainable technological development. Participants were encouraged to actively engage in hands-on sessions to enhance both teaching effectiveness and research productivity.

Chief Guest(s): Prof. C.V. Narasimhulu, Principal, CBIT.

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3. Resource Persons / Speakers (with Designation & Affiliation)

- **Prof. N. V. Koteswara Rao**, Director – IQAC, Dept. of ECE, CBIT
- **Dr. T. Murali Krishna**, Associate Professor & Associate Director – IQAC, Dept. of EEE, CBIT
- **Ms. P. Chandana**, Application Engineer – MathWorks, ARKANCE IN Pvt. Ltd.
- **Prof. M. Balasubba Reddy**, Professor & Head, Dept. of EEE, CBIT
- **Dr. R. Vijay**, Assistant Professor, Dept. of EEE, CBIT
- **Dr. K. Vasanth**, Associate Professor & Head, Dept. of ECE, CBIT
- **Dr. G. Mallikharjuna Rao**, Assistant Professor, Dept. of ECE, CBIT
- **Dr. T. Aravinda Babu**, Assistant Professor, Dept. of ECE, CBIT
- **Prof. P. Narahari Sastry**, Professor, Dept. of ECE, CBIT

4. Participants

- **Total Number of Participants:** 116
- **Categories:** Faculty Members, Non-Teaching Staff, Postgraduate Students, Undergraduate Students

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5. Program Coordinators & Conveners

- **Program Coordinators:**
  - Dr. T. Aravinda Babu, Assistant Professor, Dept. of ECE, CBIT
  - Dr. R. Vijay, Assistant Professor, Dept. of EEE, CBIT
- **Conveners:**
  - Dr. K. Vasanth, HoD – ECE, CBIT
  - Prof. M. Balasubba Reddy, HoD – EEE, CBIT

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6. Day-wise / Session-wise Summary

Day 1 – 15/12/2025

- Inaugural Function
- MATLAB: Introduction – Prof. N. V. Koteswara Rao
- Simulink: Introduction – Dr. T. Murali Krishna

Session 1: MATLAB – Introduction

- **Resource Person:** *Prof. N. V. Koteswara Rao*
  Designation: Director – IQAC, Department of ECE, CBIT

- Prof. N. V. Koteswara Rao delivered an insightful introductory session on **MATLAB**, focusing on its role as a powerful computational and programming platform widely used in academia and industry. The session covered the fundamental architecture of MATLAB, including its interactive environment, command window, editor, and workspace. He explained the importance of MATLAB in numerical computation, data analysis, algorithm development, and visualization.
- The discussion also highlighted MATLAB's extensive application across various engineering domains such as signal processing, control systems, power systems, communication systems, and artificial intelligence. Prof. Rao emphasized how MATLAB supports **outcome-based education**, research reproducibility, and interdisciplinary problem-solving. He further stressed the relevance of MATLAB skills for faculty members and students to meet industry expectations and enhance employability.

Session 2: Simulink – Introduction

- **Resource Person:** *Dr. T. Murali Krishna*
  Designation: Associate Professor & Associate Director – IQAC, Department of EEE, CBIT

Dr. T. Murali Krishna introduced participants to **Simulink**, a graphical modeling and simulation environment integrated with MATLAB. The session focused on the fundamentals of model-based design, explaining how Simulink enables engineers to design, simulate, and analyze dynamic systems using block diagrams.

He demonstrated the basic structure of Simulink models, including sources, sinks, subsystems, and solver configurations. Special emphasis was placed on the advantages of Simulink in modeling real-time systems such as electric drives, power electronics, control systems, and electric vehicles. The session also highlighted how Simulink supports rapid prototyping, system verification, and hardware-in-the-loop (HIL) testing.

Dr. Murali Krishna explained the significance of Simulink in bridging theoretical concepts with practical implementation, particularly in the areas of **power systems, EV modeling, and control engineering**. Participants gained clarity on how Simulink can be effectively used for teaching, research experimentation, and industrial applications.

Outcome of Day 1

The first day of the FDP provided participants with a strong conceptual foundation in MATLAB and Simulink. The sessions successfully familiarized attendees with the computational and modeling tools essential for subsequent advanced topics such as electric vehicle simulation, optimization techniques, artificial intelligence, signal processing, and embedded systems. The interactive discussions and demonstrations motivated participants to actively engage in the hands-on sessions scheduled for the following days.

Day 2 – 16/12/2025

- Machine Learning Toolbox – Ms. P. Chandana
- Deep Learning Toolbox – Ms. P. Chandana
- **Session 1: Machine Learning Toolbox**

Resource Person: *Ms. P. Chandana*
Designation: Application Engineer, MathWorks (ARKANCE IN Pvt. Ltd.)

- Ms. P. Chandana delivered an in-depth session on the **Machine Learning Toolbox in MATLAB**, focusing on the fundamentals and practical implementation of machine learning algorithms. The session began with an overview of machine learning concepts, including supervised, unsupervised, and reinforcement learning paradigms, and their relevance to modern engineering applications.
- She explained the workflow involved in machine learning using MATLAB, covering data preprocessing, feature extraction, model selection, training, validation, and performance evaluation. Participants were introduced to commonly used algorithms

such as linear and logistic regression, decision trees, support vector machines, k-nearest neighbors, and ensemble methods. The importance of data quality, normalization, and feature engineering was emphasized to achieve accurate and reliable models.

- The session also highlighted real-world applications of machine learning in areas such as **signal classification, fault diagnosis, power system analysis, electric vehicle data analytics, and predictive maintenance**. Live demonstrations using MATLAB functions and apps helped participants understand how machine learning models can be developed efficiently without extensive coding. The session enabled participants to appreciate the role of MATLAB as a powerful platform for rapid prototyping and research-oriented machine learning development.

Session 2: Deep Learning Toolbox

Resource Person: *Ms. P. Chandana*
Designation: Application Engineer, MathWorks (ARKANCE IN Pvt. Ltd.)

- The afternoon session focused on the **Deep Learning Toolbox in MATLAB**, where Ms. P. Chandana introduced participants to deep learning architectures and their applications. The session covered the fundamentals of neural networks, including artificial neural networks (ANNs), convolutional neural networks (CNNs), and recurrent neural networks (RNNs).
- She explained the structure and functioning of deep learning models, including layers, activation functions, loss functions, and optimization algorithms. Special emphasis was placed on CNNs for image and signal processing applications and RNNs for time-series and sequential data analysis. The session demonstrated how MATLAB supports deep learning model development through built-in functions, pretrained networks, and GPU acceleration.
- Practical examples illustrated the application of deep learning in **image classification, object detection, signal denoising, speech processing, and intelligent electric vehicle systems**. Ms. Chandana also discussed the integration of deep learning models with Simulink for system-level simulation and real-time implementation. The session highlighted MATLAB's ability to bridge research, simulation, and deployment in AI-driven engineering solutions.

Outcome of Day 2

- Day 2 of the FDP significantly enhanced participants' understanding of **Machine Learning and Deep Learning concepts using MATLAB**. The sessions provided a strong foundation in data-driven modeling, intelligent system design, and AI-based problem-solving. Participants gained clarity on applying ML and DL techniques for teaching, research, and industrial applications, particularly in the domains of power systems, electric vehicles, signal processing, and automation. The hands-on demonstrations and practical examples prepared participants for advanced modeling and optimization topics in subsequent sessions.

Day 3 – 17/12/2025

- Electric Vehicle Modeling – I – Ms. P. Chandana
- Electric Vehicle Modeling – II – Ms. P. Chandana

Technical Sessions on Electric Vehicle Modeling using MATLAB/Simulink

Session 1: Electric Vehicle Modeling – I

Resource Person: *Ms. P. Chandana*
Designation: Application Engineer, MathWorks (ARKANCE IN Pvt. Ltd.)

- Ms. P. Chandana conducted the first session on **Electric Vehicle (EV) Modeling**, focusing on the fundamentals of electric mobility and the importance of simulation-based design in modern transportation systems. The session began with an overview of electric vehicle architectures, including **Battery Electric Vehicles (BEVs), Hybrid Electric Vehicles (HEVs), and Plug-in Hybrid Electric Vehicles (PHEVs)**.
- She explained the key subsystems of an electric vehicle, such as the **battery pack, power electronics converters, electric motor, transmission system, and vehicle dynamics**. Emphasis was placed on understanding energy flow, efficiency, and performance parameters within an EV system. The session introduced MATLAB/Simulink tools used for EV modeling, highlighting how mathematical models can be developed to represent real-world vehicle behavior.
- Ms. Chandana demonstrated basic EV models using Simulink blocks, explaining torque–speed characteristics of electric motors, battery state-of-charge (SOC) estimation, and vehicle load dynamics. The importance of simulation in evaluating driving cycles, energy consumption, and system-level performance was discussed in detail. Participants gained insights into how EV modeling supports design optimization, control strategy development, and sustainable transportation research.

Session 2: Electric Vehicle Modeling – II

Resource Person: *Ms. P. Chandana*
Designation: Application Engineer, MathWorks (ARKANCE IN Pvt. Ltd.)

- The second session focused on **advanced electric vehicle modeling and simulation** using MATLAB/Simulink. Building upon the concepts introduced in the earlier session, Ms. Chandana discussed the integration of EV subsystems into a complete vehicle model. The session covered advanced topics such as **battery management systems (BMS), motor control strategies, regenerative braking, and thermal considerations**.
- She demonstrated the use of predefined Simulink libraries and toolboxes for EV simulation, including parameter tuning and performance evaluation under different driving conditions. Special emphasis was placed on simulating standard driving cycles to analyze vehicle range, efficiency, and power demand. The session also addressed challenges in EV modeling, such as nonlinearities, parameter variations, and real-time constraints.

- Practical case studies illustrated how EV models can be used for **control algorithm validation, optimization of energy usage, and comparative analysis of different propulsion technologies**. The session highlighted the relevance of EV modeling in achieving clean energy goals and reducing carbon emissions, aligning with sustainable development initiatives.

Outcome of Day 3

- Day 3 of the FDP provided participants with a comprehensive understanding of **electric vehicle modeling and simulation using MATLAB/Simulink**. The sessions enabled participants to develop system-level perspectives on EV design, analyze performance metrics, and explore optimization opportunities. The knowledge gained supports applications in teaching, research, and industry-oriented projects related to **electric mobility, clean energy systems, and sustainable transportation**, preparing participants for advanced EV and optimization topics in subsequent sessions.

Day 4 – 18/12/2025

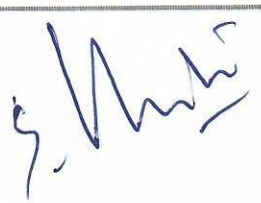
- Implementation of Teaching–Learning Based Optimization (TLBO) in MATLAB – Prof. M. Balasubba Reddy
- Optimization Techniques using MATLAB – Dr. R. Vijay

Technical Sessions on Optimization Techniques using MATLAB

Session 1: Implementation of Teaching–Learning Based Optimization (TLBO) in MATLAB

Resource Person: *Prof. M. Balasubba Reddy*
Designation: Professor & Head, Department of EEE, CBIT

- Prof. M. Balasubba Reddy delivered an in-depth session on the **Teaching–Learning Based Optimization (TLBO) algorithm**, focusing on its theoretical foundation and practical implementation using MATLAB. The session began with an introduction to **metaheuristic and evolutionary optimization techniques**, highlighting their importance in solving complex, nonlinear, and multi-objective engineering problems.
- He explained the inspiration behind TLBO, which is modeled on the **teaching–learning process in a classroom environment**, where the teacher phase and learner phase work together to improve the overall performance of the population. The mathematical formulation of TLBO was discussed in detail, including population initialization, mean calculation, teacher selection, and solution update mechanisms.
- Prof. Reddy demonstrated the step-by-step **MATLAB implementation of the TLBO algorithm**, explaining how objective functions, constraints, and decision variables are handled. Practical examples were presented to illustrate the application of TLBO in **power system optimization, economic dispatch, parameter tuning, and engineering design problems**. The session emphasized the advantages of TLBO, such as its parameter-less nature, faster convergence, and reduced computational complexity compared to other optimization techniques.



Session 2: Optimization Techniques using MATLAB

Resource Person: *Dr. R. Vijay*
Designation: Assistant Professor, Department of EEE, CBIT

- Dr. R. Vijay conducted a comprehensive session on **Optimization Techniques using MATLAB**, covering both classical and modern optimization methods. The session started with an overview of optimization problem formulation, including objective functions, decision variables, equality and inequality constraints, and solution feasibility.
- He discussed various optimization techniques such as **linear programming, nonlinear programming, unconstrained and constrained optimization**, along with heuristic and population-based methods.
- Mainly, he explains mainly on recent optimization techniques and hands-on sessions on PSO and Genetic Algorithm.
- The use of MATLAB's built-in optimization tools and solvers was demonstrated, enabling participants to efficiently model and solve engineering optimization problems.
- Dr. Vijay highlighted real-world applications of optimization in **power systems, electric vehicles, control systems, and renewable energy integration**. Practical MATLAB examples were used to illustrate solution convergence, constraint handling, and performance comparison among different optimization algorithms. The session also emphasized the role of optimization in improving system efficiency, reducing losses, and achieving sustainable engineering solutions.

Outcome of Day 4

- Day 4 of the FDP significantly strengthened participants' understanding of **optimization concepts and their practical implementation using MATLAB**. The sessions provided both theoretical insights and hands-on experience in solving real-world engineering problems using advanced optimization techniques. Participants gained valuable knowledge applicable to teaching, research, and industry, particularly in the domains of **power systems, electric vehicles, and sustainable energy systems**, preparing them for advanced computational modeling and optimization-based research.

Day 5 – 19/12/2025

- HDL Code Generation using MATLAB – Dr. K. Vasanth
- Embedded Hardware Interfacing with MATLAB – Dr. G. Mallikharjuna Rao
- **Technical Sessions on HDL Code Generation and Embedded Hardware Interfacing**

Session 1: HDL Code Generation using MATLAB

Resource Person: *Dr. K. Vasanth*

Designation: Professor & Head, Department of ECE, CBIT

- Dr. K. Vasanth delivered a comprehensive session on **HDL Code Generation using MATLAB**, focusing on the role of model-based design in digital system development. The session began with an overview of hardware description languages (HDL) such as **VHDL and Verilog**, and their importance in the design and implementation of digital and embedded systems.
- He explained how MATLAB and Simulink can be used to develop high-level models that can be automatically converted into synthesizable HDL code using **HDL Coder**. The session covered key concepts such as fixed-point modeling, timing constraints, and resource optimization. Dr. Vasanth demonstrated the workflow for generating HDL code from Simulink models and discussed verification techniques to ensure functional correctness.
- The session highlighted applications of HDL code generation in **signal processing, communication systems, control systems, and FPGA/ASIC design**. Participants gained insights into reducing development time, minimizing design errors, and improving system reliability through automated code generation techniques.

Session 2: Embedded Hardware Interfacing with MATLAB

Resource Person: *Dr. G. Mallikharjuna Rao*
Designation: Assistant Professor, Department of ECE, CBIT

- Dr. G. Mallikharjuna Rao conducted an informative session on **Embedded Hardware Interfacing using MATLAB**, emphasizing the integration of software models with physical hardware platforms. The session introduced participants to MATLAB's support for embedded systems and real-time hardware interfacing.
- He explained the process of interfacing MATLAB and Simulink with embedded controllers, sensors, and actuators. Practical demonstrations illustrated data acquisition, real-time monitoring, and control using MATLAB. The session covered the use of supported hardware platforms and communication protocols for effective system integration.
- Dr. Mallikharjuna Rao highlighted the importance of embedded interfacing in applications such as **control systems, Internet of Things (IoT), robotics, and real-time signal processing**. The session emphasized how MATLAB enables rapid prototyping and testing, bridging the gap between simulation and real-world implementation.

Outcome of Day 5

Day 5 of the FDP provided participants with valuable insights into **hardware-oriented design and implementation using MATLAB and Simulink**. The sessions enhanced participants' understanding of digital system design, embedded hardware integration, and real-time implementation. The knowledge gained is highly beneficial for teaching advanced courses, conducting applied research, and developing industry-relevant engineering solutions in the domains of embedded and digital systems.

Day 6 – 20/12/2025

- Applications of Signal Processing using MATLAB – Dr. T. Aravinda Babu
- Applications of Image Processing using MATLAB – Prof. P. Narahari Sastry
- Valedictory Function (03:30 PM – 04:00 PM)

Technical Sessions on Signal Processing, Image Processing & Valedictory Function

Session 1: Applications of Signal Processing using MATLAB

Resource Person: *Dr. T. Aravinda Babu*
Designation: Assistant Professor, Department of ECE, CBIT

Dr. T. Aravinda Babu delivered an insightful session on **Applications of Signal Processing using MATLAB**, focusing on both theoretical concepts and practical implementation. The session began with an overview of fundamental signal processing concepts such as time-domain and frequency-domain analysis, sampling, filtering, and spectral estimation.

He demonstrated the use of MATLAB tools and functions for analyzing and processing real-world signals. Practical examples included **signal filtering, noise reduction, signal enhancement, and frequency analysis** using Fast Fourier Transform (FFT). The session highlighted applications of signal processing in areas such as **communication systems, biomedical signal analysis, speech processing, and power system signal monitoring.**

Dr. Aravinda Babu emphasized the importance of MATLAB in enabling efficient algorithm development and visualization, making complex signal processing concepts easier to understand and implement. Participants gained hands-on experience in applying signal processing techniques to real data, strengthening their analytical and computational skills.

Session 2: Applications of Image Processing using MATLAB

Resource Person: *Prof. P. Narahari Sastry*
Designation: Professor, Department of ECE, CBIT

Prof. P. Narahari Sastry conducted a comprehensive session on **Applications of Image Processing using MATLAB**, focusing on digital image fundamentals and practical applications. The session covered core concepts such as image representation, enhancement, segmentation, and feature extraction.

He demonstrated MATLAB's Image Processing Toolbox for tasks including **image filtering, edge detection, object detection, and pattern recognition**. Real-world examples illustrated applications of image processing in **medical imaging, surveillance systems, remote sensing, and intelligent transportation systems.**

The session also highlighted the integration of image processing techniques with artificial intelligence and machine learning for advanced applications. Participants gained insights into how image processing plays a critical role in modern engineering solutions and research.

Outcome of Day 6

Day 6 successfully consolidated participants' learning by exposing them to practical applications of signal processing and image processing using MATLAB. The technical sessions, followed by the valedictory function, marked the successful culmination of the FDP, reinforcing the program's objectives of enhancing computational skills, research capabilities, and industry readiness among participants.

Valedictory Function (03:30 PM – 04:00 PM)

The FDP concluded with a **Valedictory Function** held on **20th December 2025**. The session marked the successful completion of the six-day intensive training program. Feedback from participants highlighted the effectiveness of the hands-on sessions, the relevance of the topics covered, and the expertise of the resource persons.

The organizers expressed gratitude to the management, Principal, Heads of Departments, coordinators, and all resource persons for their support and contributions. Certificates were distributed to the participants, and the program concluded on a positive note, with participants expressing satisfaction and enthusiasm for applying the acquired knowledge in teaching, research, and professional practice.

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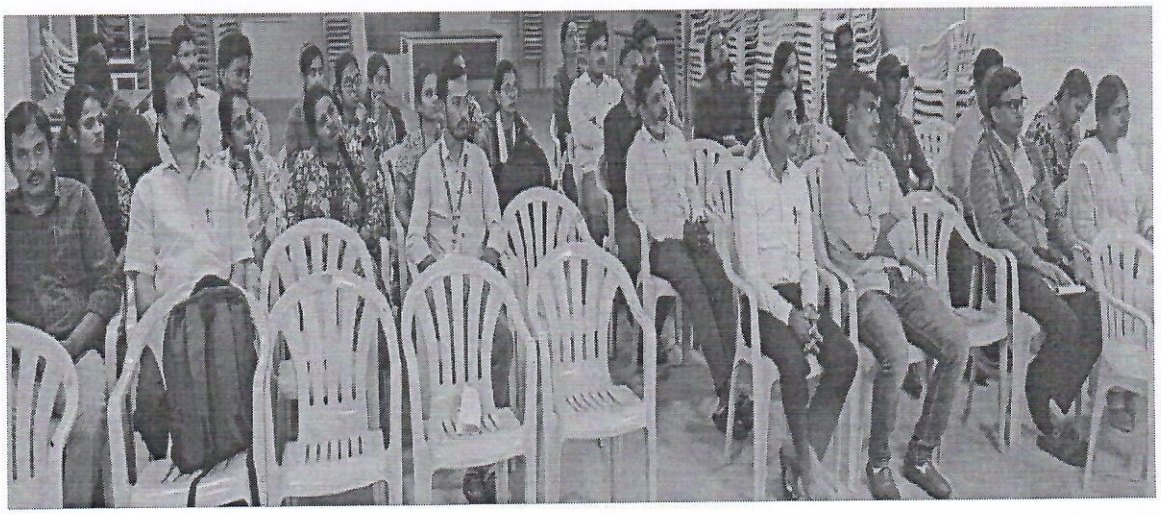
7. Outcomes of the FDP

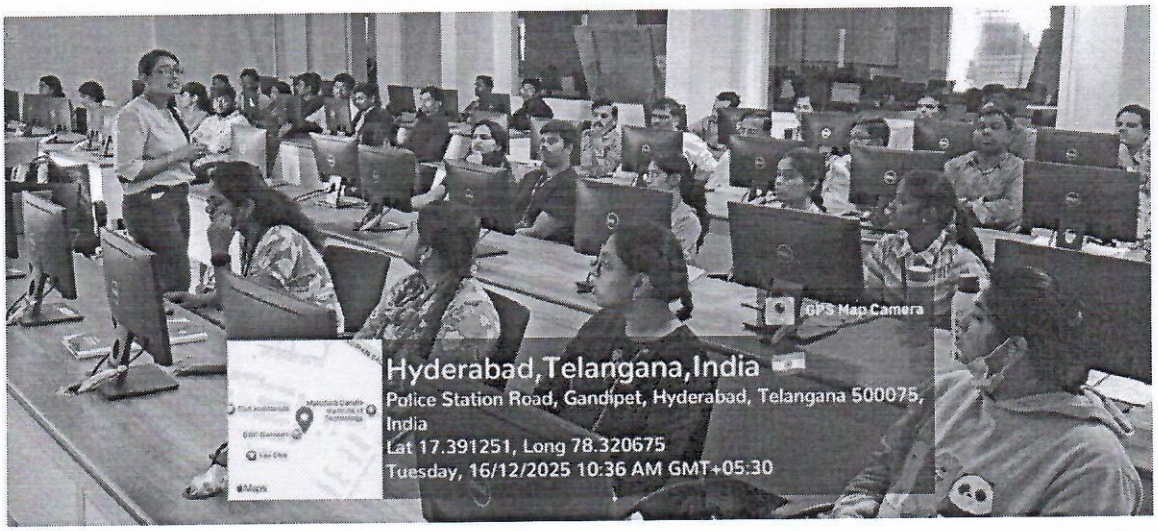
- Enhanced hands-on expertise in MATLAB & Simulink
- Practical exposure to EV modeling, AI/ML, Optimization, Signal & Image Processing
- Strengthened research and teaching capabilities
- Alignment with UN Sustainable Development Goals (SDG 4, SDG 7, SDG 9, SDG 11)

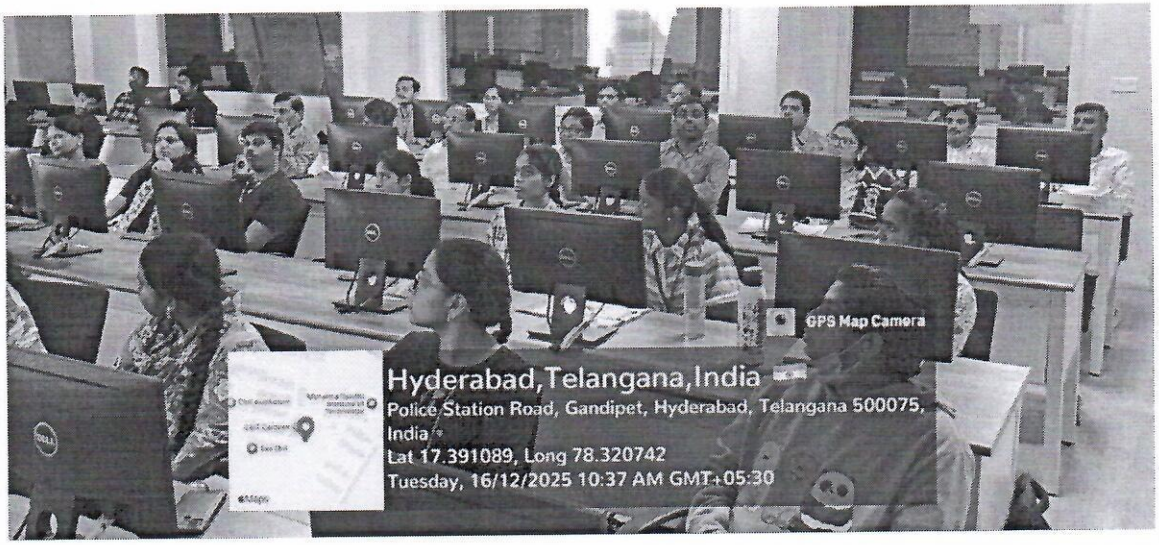
8. Photographs (with GPS Details)

- **Annexure – I:** Inaugural Session (GPS-enabled)

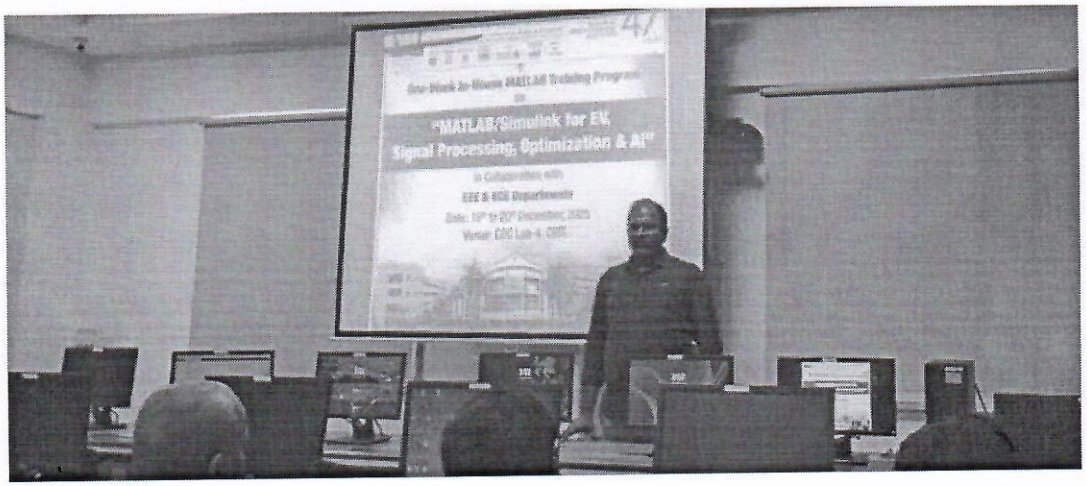


- **Annexure – II:** Technical Sessions & Hands-on Labs (GPS enabled)





- **Annexure – III:** Valedictory Function & Group Photograph (GPS enabled)



(All photographs are properly labelled with date, venue, and event title.)

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9. Newspaper Clippings

- **Annexure – IV:** English Newspaper Coverage dated **19.12.2025**

CBIT Launches One-Week MATLAB FDP

DECCAN NEWS SERVICE
HYDERABAD

Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, has further strengthened its focus on academic excellence, research innovation, and sustainable technological development by launching a one-week in-house MATLAB Faculty Development Programme (FDP) on "MATLAB/Simulink for EV, Signal Processing, Optimization & AI".

The programme is being conducted from December 15 to 20, 2025, in association with the Departments of Electronics and Communication Engineering (ECE) and Electrical and Electromes Engineering (EEE).

The FDP is designed to equip participants with industry-relevant computational skills while promoting advanced engineering education and innovation aligned with the United Nations Sustainable Development Goals (SDGs). The programme particularly supports SDG 4 (Quality Education), SDG 7 (Affordable and Clean Energy), SDG 9 (Industry, Innovation and Infrastructure), and SDG 11 (Sustainable Cities and Communities).

The programme was formally inaugurated on December 15, marking the beginning of an intensive six-day hands-on training schedule. Participants include faculty members, non-teaching staff, postgraduate students, and undergraduate students, reflecting CBIT's inclusive and multidisciplinary approach to skill development and lifelong learning.

The training offers practical exposure to cutting-edge technological domains such as Machine Learning, Deep Learning, Electric Vehicle modeling and simulation, optimization techniques, HDL code generation, embedded hardware interfacing, signal processing, and image processing using MATLAB and Simulink platforms.

These focus areas directly support sustainable energy systems, intelligent automation, and digital transformation, contributing to SDG-driven research and innovation.

The sessions are being delivered by industry experts and experienced CBIT faculty members, effectively bridging the gap between academic concepts and real-world industrial applications. Addressing the participants, Principal Prof. C. V. Narasimhulu, along with the Heads of the Departments and programme coordinators, emphasized the importance of mastering modern computational tools to enhance teaching quality, research output, and practical engineering solutions to societal and environmental challenges.

The Principal appreciated the efforts of the programme coordinators, Dr. T. Aravinda Babu, Assistant Professor, ECE, and Dr. R. Vijay, Assistant Professor, EEE, for their effective planning and execution. Conveners Dr. K. Vasanth, HoD- ECE, and Dr. M. Balasubba Reddy, HoD- EEE, stated that the FDP significantly enhances technical competence, research capabilities, and sustainable engineering practices among participants.

Through such initiatives, CBIT continues to reaffirm its commitment to quality education, clean energy solutions, innovation-led research, and sustainable development.

సీబీఐటీలో సుస్థిర అభివృద్ధి లక్ష్యాల సాధనే ధ్యేయంగా 'మ్యాట్ ల్యాబ్' శిక్షణ

హైదరాబాద్ – దక్షిణ:

విద్యా ప్రాంగణం మరియు పరిశోధన రంగాల్లో వినూత్నతను పెంపొందించే దిశగా, గండిపేటలోని చైతన్య భారతి ఇన్‌స్టిట్యూట్ ఆఫ్ టెక్నాలజీ (CBIT)లో "మ్యాట్ ల్యాబ్ / సిములింక్ ఫర్ ఈ వి, సిగ్నల్ ప్రాసెసింగ్, ఆప్టిమైజేషన్ ఏఐ" అనే అంశంపై వారం రోజుల పాటు నిర్వహించిన ఇన్-హౌస్ ఫ్యాకల్టీ డెవలప్‌మెంట్ ప్రోగ్రామ్ (FDP) శనివారం విజయవంతంగా ముగిసింది. ఎలక్ట్రానిక్స్ అండ్ కమ్యూనికేషన్ (ECE) మరియు ఎలక్ట్రికల్ అండ్ ఎలక్ట్రానిక్స్ (EEE) విభాగాల సంయుక్త ఆధ్వర్యంలో డిసెంబర్ 15 నుండి 20 వరకు జరిగిన ఈ శిక్షణలో మెషిన్ లెర్నింగ్, ఎలక్ట్రిక్ వెహికిల్ (EV) మోడలింగ్, ఇమేజ్ ప్రాసెసింగ్ వంటి అత్యాధునిక అంశాలపై అధ్యాపకులు, విద్యార్థులకు ప్రాయోగిక అవగాహన కల్పించారు. ఐక్యరాజ్యసమితి నిర్దేశించిన సుస్థిర అభివృద్ధి లక్ష్యాలైన (SDG) నాణ్యమైన విద్య (SDG-4), సుభమైన ఇంధనం (SDG-7), పరిశ్రమ-వినూత్నత (SDG-9) మరియు సుస్థిర నగరాల (SDG-11) సాధనే లక్ష్యంగా ఈ కార్యక్రమాన్ని రూపొందించారు. పరిశ్రమల అవసరాలకు అనుగుణంగా బోధనా పద్ధతులను అధునీకరించడం ఈ ప్రోగ్రామ్ ముఖ్య ఉద్దేశమని సీబీఐటీ ప్రిన్సిపాల్ ప్రొఫెసర్ సి. వి. నర్సింహులు పేర్కొన్నారు. ఈ సందర్భంగా అయన మాట్లాడుతూ, అధునిక కంప్యూటేషనల్ టూల్స్‌లో

నైపుణ్యం సాధించడం ద్వారా సమాజానికి మేలు చేసే ఇంజినీరింగ్ పరిష్కారాలను రూపొందించవచ్చని తెలిపారు. ప్రోగ్రామ్ కోఆర్డినేటర్లు డా. టి. అరవింద బాబు, డా. ఆర్. విజయ్ మరియు కన్వీనర్లు డా. కె. వసంత్, డా. ఎం. బాలసుబ్బారెడ్డిలు మాట్లాడుతూ.. ఈ శిక్షణ కేవలం అకడమిక్ సిద్ధాంతాలకు, వాస్తవ పరిశ్రమ అవసరాలకు మధ్య ఉన్న అంతరాన్ని తగ్గిస్తారని ఆకాంక్షం వ్యక్తం చేశారు. సుస్థిర సాంకేతిక భవిష్యత్తును నిర్మించడంలో ఇలాంటి కార్యక్రమాలు ఎంతగానో దోహదపడతాయని కళాశాల యాజమాన్యం స్పష్టం చేసింది.

10. Participants List with Signatures

- **Annexure – V:** Attendance Sheets with Signatures

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University

Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in

Approved by | Affiliated to | UGC Autonomous | 12 Programs Accredited by | Grade A++ in NAAC | All India Ranking 151-200 Band nirf | Certified by ISO 21001 : 2018

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

47 years

One-week In-house MATLAB Training Program on

MATLAB/Simulink for EV, Signal Processing, Optimization & AI

Dates: 15th – 20th December 2025

Attendance Sheet - 15.12.2025 to 20.12.2025

S. No.	Participant Name	Department	Designation	15-12-2025	15-12-2025	16-12-2025	16-12-2025	17-12-2025	17-12-2025	18-12-2025	18-12-2025	19-12-2025	19-12-2025	20-12-2025	20-12-2025
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Kontham Sridhar Babu	ECE	Technician Gr-III												
2	G Venkatesh	ECE	Lab Technician Gr-III												
3	Dr. Matam Santoshi Kumari	Mathematics	Assistant Professor				A			A		A			
4	N Jagan Mohan Reddy	ECE	Assistant Professor			A		A							
5	Dr. G. Suresh Babu	EEE	Professor	A	A	A	A	A	A	A	A	A	A	A	A
6	Bhasker Dappuri	ECE	Assistant Professor	A			A								
7	Dr.P. Nagasekhara Reddy	EEE	Associate Professor		A		A			A			A		
8	V Shiva Kumar	Ece	Skilled Assistant											A	A
9	Ganduri Surender	ECE	Technician Gr-Iii												
10	Kammari Naveen	ECE	Lab Technician												
11	E. Yadagiri	Ece	Technician Gr. I		A	A									A
12	Dr Anila Macharla	CSE	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
13	Kesani Geetha	Director IQAC office	DEO As A Junior	A	A	A	A	A	A	A	A	A	A	A	A
14	Pala Srinivas	PURCHASE	Superintendent			A	A				A			A	
15	Basana Padmavathi	ECE	Spl. Grade Computer											A	A
16	J Snehalatha	ECE	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
17	Nanduri Chandra Sekhar	MECHANICAL	Gr -Ii	A	A	A	A	A	A	A	A	A	A	A	A

S. No.	Participant Name	Department	Designation	15-12-2025 FN	15-12-2025 AN	16-12-2025 FN	16-12-2025 AN	17-12-2025 FN	17-12-2025 AN	18-12-2025 FN	18-12-2025 AN	19-12-2025 FN	19-12-2025 AN	20-12-2025 FN	20-12-2025 AN
18	Dudam Bharath Kumar	Civil Engineering	Assistant Professor			A	A							A	A
19	Nukaraju Seshagirirao	Ece	Technician Gr1	A			A			A					
20	K Vijaya Bhaskar Reddy	ECE	Lab Assistant												
21	Nukaraju Seshagirirao	Ece	Technician Gr1												
22	Veluri Siva Ramaiah	ECE	Lab Assistant												
23	Dr. Ashutosh Sahu	Mechanical Engineering	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
24	Dr. M Swamy Das	CSE	Professor	A	A	A	A	A	A	A	A	A	A	A	A
25	Dr T V Surendra	Chemistry	Assistant Professor						A	A				A	A
26	Dr. C. Srisailam	EEE	Assistant Professor	A			A				A			A	
27	Madhulika Das	EEE	Assistant Professor			A									
28	T Samatha	EEE	Technician Grade -III												
29	A.Krishnama Chary	EEE	Spl Gr Technician Iii		A										
30	Pothula Rajasekhar	EEE	Technician Grade -Iii												
31	Pathipaka Venumadhavachary	EEE	Spl Grd III Technician		A		A								
32	Sangem Srinivas	EEE	Technician	A	A	A	A				A		A		
33	M Amarnath	MATHEMATICS	Assistant Professor			A	A							A	A
34	Dr. Prabhakar Kandukuri	AIML	Professor	A	A	A	A	A	A	A	A	A	A	A	A
35	Cholleti Harish	EEE	Assistant Professor												
36	Namburi Dhana Lakshmi	ECE	Assistant Professor		A			A	A						
37	B Suresh Kumar	EEE	Associate Professor	A	A										
38	S. Praveena	ECE	Associate Professor		A	A	A					A			
39	Dr. P.Kowstubha	EEE	Associate Professor	A			A		A						
40	Kishore M	EEE	Lab Technician			A									

S. No.	Participant Name	Department	Designation	15-12-2025	15-12-2025	16-12-2025	16-12-2025	17-12-2025	17-12-2025	18-12-2025	18-12-2025	19-12-2025	19-12-2025	20-12-2025	20-12-2025
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
41	B.Yadaiah	EEE	Lab Technician-Iii				A			A					
42	L. Rama Basanthi	ECE	Lab Technician Gr-												
43	Ch Srilakshmi	CET	Asst.Professor	A	A	A	A							A	A
44	A.Krishna Kumar	ECE	Assistant Professor	A		A	A	A	A	A	A	A	A	A	A
45	Dr.V.Sree Ramani	Mathematics	Assistant Professor		A		A					A			A
46	Dr. Sai Krishna Kondoju	ECE	Assistant Professor				A	A	A	A					
47	K.Gurubrahmam	MED	Assistant Professor		A	A	A								
48	Vullogu Srinivas	MED	Technician Grad -3											A	A
49	Guguloth Baloji	AEC	A.E	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	G.Baloji	A	A
50	Bhukya Geetha	CET	Computer Operator											A	A
51	Jhansirani Kondabathini	CET	Computer Operator											A	A
52	Burunolla Balauday	EEE	Student	A	A	A	A	A	A	A	A	A	A	A	A
53	Yamini Anugula	M.E PS&PE	Student												
54	Lingam Saikumar	~~M.E EEE~~ PS&PE	Student	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar	L.Saikumar
55	P Charishma	Ece	Project Associate	A	A	P.charishma	P.charishma	P.charishma	P.charishma	P.charishma	P.charishma	P.charishma	P.charishma	A	A
56	Dr.B.Harish Goud	IT	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
57	Panigrahi Srikanth	AIML	Assistant Professor									A	A	A	A
58	Lokesh Mariserla	AIML	Computer Operator											A	A
59	Srikanth Vemula	AI&DS	Admin Executive	A	A	A	A	A	A	A	A	A	A	A	A
60	Koyagura Venkatesham	AEC	Administrative Executive	A	A			A			A			A	A
61	E Ramalakshmi	IT	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
62	D. Madhavi Latha	Biotechnology	Technical Staff	A	A	A	A	A	A	A	A	A	A	A	A
63	Y Chandra Sekhar	IT	Assistant Programmer			A	A	A	A						

S. No.	Participant Name	Department	Designation	15-12-2025	15-12-2025	16-12-2025	16-12-2025	17-12-2025	17-12-2025	18-12-2025	18-12-2025	19-12-2025	19-12-2025	20-12-2025	20-12-2025
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
64	Dr Srikanth Koniki	Civil Engineering	Assistant Professor			A	A	A		A					
65	Sushmitha Heerekar	AIML	Computer Operator											A	A
66	Dr K Suman	ECE	Assistant Professor	A	A				A						
67	Ramesh Banothu	EEE	Assistant Professor	A	A	A	A	A	A	A	A	A	A	A	A
68	M.P.Radha	ECE	Technician												
69	R. Anand Raj	CSE-AIML	Assistant Programmer	A	A										
70	Devireddy Sathish	EEE	Assistant Professor			A				A					
71	Gudelli Sangeetha	EEE	Student	A	A	A	A	A	A	A	A	A	A	A	A
72	Akki Srivishnu	Civil engineering	Lab Technician											A	A
73	Ranjith Pulyala	ECE	Assistant Professor			A	A								
74	Dr. G V Pradeep Kumar	ECE	Assistant Professor				A	A							
75	N Sujata Gupta	CET	Assistant Professor											A	A
76	M. Krishna	ECE	Technician Grade - Ii												
77	Dhoddi Ashok Kumar	EEE	Lab Technician												
78	Bommadevara Kavitha	IT	Programmer												
79	Akarapu Kavya	EEE	Lab Technician												
80	Santhosh Voruganti	IT	Asst.Prof	A	A	A	A	A	A	A	A	A	A	A	A
81	P Naveen	ECE	B.Tech Ece	A	A	A	A	A	A	A	A	A	A	A	A
82	Yedida Vijaya Keerthana Rani	Embedded system and	Student									A	A	A	
83	Apuri Shambhavi	ECE (ES & VLSI	Student									A	A	A	
84	Nayani Umasree	ECE M.E(ES&VL	Student						A			A	A		
85	Bandari Srihitha	ECE ES VLSID	Student					A	A			A	A		
86	Suddoju Rajesh	CET	Computer Operator	A	A	A					A			A	A

S. No.	Participant Name	Department	Designation	15-12-2025	15-12-2025	16-12-2025	16-12-2025	17-12-2025	17-12-2025	18-12-2025	18-12-2025	19-12-2025	19-12-2025	20-12-2025	20-12-2025
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
87	Dr. Mavuri Sri Suresh	EEE	Assistant Professor		A		A					A			
88	Bhomray Maheshwar	EEE	Technician Gr-LII			A				A					
89	Vivek Singh Kushwah	ECE	Professor		A	A	A								
90	D.Spoorthi	ECE	B.Tech 2 Nd Year	A	A	A	A	A	A	A	A	A	A	A	A
91	Tausif Abdullah Md	ECE	Student	A	A	A	A	A	A	A	A	A	A	A	A
92	Kaushik Bathula	ECE	UG (Student)	A	A	A	A	A	A	A	A	A	A	A	A
93	Thaluru Harshitha	ECE	UG Student	A	A				A	A	A	A	A	A	A
94	Kaushik Bathula	ECE	Ug (Student)	A	A	A	A	A	A	A	A	A	A	A	A
95	B Tulasi	Ece	Engineer	A	A	A	A	A	A	A	A	A	A	A	A
96	U.Poornachandar	CSE	Computer Operator	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	U-Pol	A	A
97	K. Lalith Adithya	Electronics and	Student	A	A	A	A	A	A	A	A	A	A	A	A
98	Tejavath Manasa	Ece	Student	A	A	A	A	A	A	A	A	A	A	A	A
99	Nyalam Saikumar	Electronics and	Student	A	A	A	A	A	A	A	A	A	A	A	A
100	Aadya Maheshwari	ECE	Student	A	A	A	A	A	A	A	A	A	A	A	A
101	A. Srinivesh Reddy	ECE	Student	A	A	A	A	A	A	A	A	A	A	A	A
102	Jallela Devaraj	Civil Engineering	Lab Technician												
103	Gujjula Bangar Reddy	AEC	Senior Assistant	A	A	A	A							A	A
104	Mujtabauddin Ahmed	Ece	M.E	A	A	A	A	A	A	A	A	A	A	A	A
105	Beerla Shiva Kishore	Alumni Office	Computer Operator	A	A	A	A	A	A	A	A	A	A	A	A
106	Gunja Vasanth	ECE (ES&VLSI)	Student	A	A	A	A	A	A	A	A	A	A	A	A
107	T Ramesh	AEC	Cbit	A	A				A	A	A	A	A	A	A
108	V Vaishnavi	ECE	Student											A	A
109	Gangamadri Poojitha	ECE-CE	Student	Pooji	Pooji	Pooji	Pooji	Pooji	Pooji	Pooji	Pooji	A	A	A	A

S. No.	Participant Name	Department	Designation	15-12-2025	15-12-2025	16-12-2025	16-12-2025	17-12-2025	17-12-2025	18-12-2025	18-12-2025	19-12-2025	19-12-2025	20-12-2025	20-12-2025
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
110	K Sai Vaishnavi	ECE-CE	Student	K. Sai Vaishnavi	K. Sai Vaishnavi	K. Sai Vaishnavi	K. Sai Vaishnavi	A	K. Sai Vaishnavi	K. Sai Vaishnavi	K. Sai Vaishnavi	K. Sai Vaishnavi	K. Sai Vaishnavi	A	A
111	Nemmala Sanjana	ECE-CE	Student	N. Sanjana	N. Sanjana	N. Sanjana	N. Sanjana	A	N. Sanjana	N. Sanjana	N. Sanjana	N. Sanjana	N. Sanjana	A	A
112	Syed Ahmed Khasim Ghouri	ECE-CE	Student	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	Sk Khasim	A	A
113	Makhan Vishal Singh	ECE-CE	Student	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	Vishal Singh	A	A
114	N Krishnaiah	ECE	Skilled Asst												
115	R. Pravallika	ECE	Lab Tech.	Ray	A	Ray	A	Ray	A	Ray	A	Ray	Ray	Ray	Ray	Ray	Ray

Coordinators

Dr. T. Aravinda Babu & Dr. R. Vijay

11. Certification

Organizer Signatures:

1. Dr T. Aravinda Babu
2. Dr. R. Vijay

Name & Designation:

1. Dr T. Aravinda Babu, Asst. Prof, Dept. of ECE, CBIT
2. Dr R. Vijay, Asst. Prof, Dept. of EEE, CBIT

Date:

HoD Signatures:

Department Seal & Stamp

HEAD
Dept. of EEE, CBIT (A)
Gandipet, Hyderabad-75

Dept. of EEE
CBIT (A), Hyd-75

Head, Dept. of ECE
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075.

Chaitanya Bharathi Institute of Technology (A)
Dept. of ECE

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Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbit.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

47 years

One-Week In-House Faculty Development Program (FDP)
"MATLAB/Simulink for EV, Signal Processing, Optimization & AI"

Organized by
Departments of ECE & EEE

al ta o	Full Name	Depart ment	Designat ion	Email ID	Planning and organizat	Resource persons' subject	Communi cation skills	Interac tions by	Quality of present	Covera ge of MATL	Hands-on session	Effective ness of teaching	The program enhanced my understanding of	The FDP will be useful for:	Overall learning environ	What did you like most about	Any additional comments or	Overall rating of the FDP
r.	Kaushik Bathula	Electroni cs And Commun ication	Student	chocotruffle02 @gmail.com	Excellent	Excellent	Excellent	Excelle nt	Excelle nt	Excellen t	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Very good	The teaching methodology	No	*****
r.	M.SRI SURESH	EEE	Assistant professor	srisuresh30@g mail.com	Excellent	Excellent	Excellent	Excelle nt	Excelle nt	Excellen t	Excelle nt	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellen t	Interactive session	No	*****
s.	Thaluru Harshitha	Ece	Student	harshithathalur u18@gmail.co m	Very good	Excellent	Excellent	Excelle nt	Very good	Very good	Excelle nt	Good	Electric Vehicle Modeling & Simulation, Signal Processing, MATLAB & Simulink	Teaching	Very good	Teaching	No	****
r	T Samatha	EEE	Technici an grade - III	tsamatha_nteee @cbit.ac.in	Excellent	Excellent	Excellent	Excelle nt	Very good	Excellen t	Very good	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellen t	"The inclusion of both explanatory	Need more sessions	*****
r	Bhukya Geetha	Compute r engineeri ng and	Compute r operator	bhukyageetha9 6@gmail.com	Excellent	Excellent	Excellent	Very good	Very good	Excellen t	Excelle nt	Excellent	Electric Vehicle Modeling & Simulation	Skill Development	Excellen t	Interactive environment	No more comments it's Good	*****
r.	Lingam Sai Kumar	EEE	Student	lingamsaikuma r9@gmail.com	Excellent	Excellent	Excellent	Excelle nt	Excelle nt	Excellen t	Excelle nt	Excellent	Artificial Intelligence / Machine Learning	Research	Excellen t	Mode of teaching	Increase workshop duration	*****

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Yamini Anugula	ME EEE-PS&PE	Student	yaminipatel449@gmail.com	Excellent	Excellent	Very good	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Research, Industry Applications, Skill Development	Excellent	Hands on session	Na	*****
Kontham Sridhar Babu	ECE	Technician GR-III	ksridhar_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	simulink demonstration and EV systems	a good informative session	*****
Nukaraju seshagiri Rao	ECE	Technician Gr-I	seshagiriroa_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Very good	Very good	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Skill Development	Excellent	learning in mat lab	conduct the more programmes	*****
Dr.N Dhana Lakshmi	ECE	Assistant professor	dhanalakshmi_ece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	Planning of content	Nil	*****
e.yadagiri	ece	technician GR.I	yadagiri_ntece@cbit.ac.in	Excellent	Excellent	Very good	Excellent	Very good	Very good	Very good	Excellent	MATLAB & Simulink Tools	Skill Development	Excellent	all	regular FDP use ful	*****
M. KRISHNA	ELECTRONICS & COMM	TECHNICIAN GRADE-II	mkrishna_ntece@cbit.ac.in	Very good	Excellent	Excellent	Excellent	Excellent	Very good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Skill Development	Very good	All	Regular conduction of this kind of FDPs are	****
AKKI SRIVISHNU	Civil engineering	Technician	vishnu.asvknaidu@gmail.com	Good	Good	Good	Good	Fair	Good	Fair	Fair	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Good	Good	Good	***
R. ANAND RAJ	CSE-AIML	ASSISTANT PROGRAMMER	ranandraj_asstprog@cbit.ac.in	Very good	Excellent	Excellent	Very good	Excellent	Excellent	Very good	Very good	Signal Processing, Artificial Intelligence / Machine Learning, MATLAB & Simulink	Skill Development	Very good	Explanation about the topic with hands on	NA	*****
Kammari Naveen	ECE	Lab technician Grade III	naveenk_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Very good	Excellent	Excellent	MATLAB & Simulink Tools	Skill Development	Excellent	MATLAB & Simulink Tools and EV	Very Good	*****
Devireddy Sathish	EEE	Assistant Professor	dsathish_eee@cbit.ac.in	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Research, Skill Development	Very good	Including DS and ML	Fine sir	****

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Srikanth Koniki	Civil Engineering	Assistant Professor	ksrikanth_civil@cbit.ac.in	Excellent	Excellent	Excellent	Very good	Excellent	Excellent	Very good	Excellent	Signal Processing	Skill Development	Excellent			*****
V shiva kumar	Ece	Skilled assistant	Shivakumarv_ntece@cbit.ac.in	Excellent	Very good	Very good	Very good	Excellent	Excellent	Very good	Excellent	Electric Vehicle Modeling & Simulation	Teaching, Research, Skill Development	Very good	Signal processing	Very good	****
JALLELA DEVARAJ	Dept.of CIVIL ENGINEERING	Lab Technician Grade -III	jallela.devaraj@gmail.com	Excellent	Very good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	AI	Good	*****
SUSHMITHA HEEREKAR	AIML	Computer operator	sushmithaheerekar_co@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	Overall it was good	All ok	*****
Lokesh Mariserla	AIML	Computer Operator	lokeshm_co@cbit.ac.in	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Artificial Intelligence / Machine Learning, MATLAB & Simulink Tools	Teaching, Skill Development	Very good	Detailed explanation and presentation	Everything is good.	****
Basana Padmavathi	Electronics and Communication	Spl.grade Computer Operator	bpadmavathi_co@cbit.ac.in	Good	Good	Good	Good	Good	Good	Good	Good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Very good	All are best.	More Sessions of practice should be there.	****
E RAMALAKSHMI	IT	Assistant professor	eramya2@gmail.com	Very good	Very good	Very good	Very good	Very good	Very good	Excellent	Very good	Optimization Techniques, Artificial Intelligence / Machine Learning, MATLAB &	Skill Development	Excellent	Optimization techniques	Nothing	*****
GANDURI SURENDER	ECE	Technician Gr-III	gsurender_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Very good	MATLAB & Simulink Tools	Skill Development	Excellent	Learn basic about matlab	Good programme	*****
DHODDI ASHOK KUMAR	EEE	Lab technician gread 3	ashok211967@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Skill Development	Excellent	Development my skills	No	*****
Bommadevara Kavitha	Information Technology	Programmer	bkavitha_prog@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	Hands-on sessions	Very nice practical sessions	*****

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B.Suresh Kumar	EEE	Associate Professor	bsureshkumar_eee@cbit.ac.in	Excellent	Excellent	Excellent	Very good	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation	Teaching, Research	Very good	execution	nothing	*****
CH Srilakshmi	Computer Engineering and	Assistant professor	srilakshmich_cet@cbit.ac.in	Good	Good	Very good	Very good	Very good	Very good	Very good	Good	Artificial Intelligence / Machine Learning, MATLAB & Simulink Tools	Research, Skill Development	Very good	Connecting all domains,starting from	Conduction only for faculty	****
S. Praveena	ECE	ASSOCIATE PROFESSOR	spraveena_ece@mgit.ac. in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing	Teaching	Very good	Nothing	Nothing	*****
L. Rama Basanthi	ECE	Lab Technician Gr_3	ramabasanthilella_ntece@cbit.ac.in	Excellent	Excellent	Very good	Good	Excellent	Very good	Very good	Very good	Signal Processing, Optimization Techniques	Industry Applications, Skill Development	Very good	Simulink and optimisation techniques	Nothing	*****
R.Pravallika	Ece	Lab technician	pravallikaravutla12@gmail.com	Very good	Very good	Excellent	Very good	Very good	Very good	Very good	Very good	Signal Processing, Optimization Techniques, MATLAB & Simulink Tools	Industry Applications, Skill Development	Very good	Signal processing, optimization simulink	Nothing	*****
M.P.Radha	ECE	Technician	mpradha_ntece@cbit.ac.in	Excellent	Excellent	Very good	Excellent	Excellent	Very good	Excellent	Very good	Signal Processing, Optimization Techniques, MATLAB & Simulink Tools	Skill Development	Very good	The way of teaching methodology	Very less time to cover.	*****
Kontham Sridhar	ECE	Technician GR-III	ksridhar_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	Simulink	Good sessions	*****
A. Krishnamachary	EEE	Spl Gr Technician III	Krishnamachary_nteee@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation	Skill Development	Excellent	Good	Good	*****
Jhansirani kondabathini	CET	Computer operator	jhansirani.kondabathini76@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	MATLAB & Simulink Tools	Research	Excellent	Mat lab, FDP	Great opportunity	*****
Syed Ahmed Khasim Ghouri	ECE-CE	Student	syedrn6@gmail.com	Very good	Excellent	Excellent	Very good	Excellent	Excellent	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Skill Development	Very good	I liked the program because the practical	More Hands On Experience will be better	****

ll Name	Depart ment	Designat ion	Email ID	Planning and organizat	Resource persons' subject	Communi cation skills	Interac tions by	Quality of present	Covera ge of MATL	Hands-on session	Effective ness of teaching	The program enhanced my understanding of	The FDP will be useful for:	Overall learning environ	What did you like most about	Any additional comments or	Overall rating of the FDP
nigrahi kanth	AIML	Assistant professor	srikanth.panigrahi@gmail.com	Very good	Very good	Very good	Very good	Good	Good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Artificial Intelligence /	Teaching, Research	Very good	Good and practical explanation	No	* * * *
nutosh nu	Mechanical Engineering	Assistant Professor	ashutosh_mech@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	Everything	This type of workshops are really useful for	* * * * *
.P.Nagasr ara Reddy	Electrical and Electronics	Associate Professor	pnsreddy_eee@mgit.ac.in	Excellent	Excellent	Excellent	Very good	Excellent	Excellent	Excellent	Very good	Electric Vehicle Modeling & Simulation	Teaching	Excellent	Simulation	No	* * * * *
RISHNA UMAR	ECE	Assistant Professor	krishnakumar_ece@cbit.ac.in	Very good	Very good	Excellent	Excellent	Very good	Excellent	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	All	None	* * * * *
venkatesh	ECE	Lab technician GR-lll	venkateshg_ntece@cbit.ac.in	Very good	Good	Excellent	Very good	Excellent	Good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Skill Development	Good	All	No	* * * *
vijaya haskar eddy	ECE	Lab assistant	Vijayabhaskar_ntece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	MATLAB & Simulink Tools	Teaching, Industry Applications, Skill Development	Excellent	Simulink tools	Many more work shops	* * * * *
hasker appuri	ECE	Assistant Professor	bhaskerd_ece@cbit ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications	Excellent	Machine learning and applications	Excellent	* * * * *
ELURI IVA AMAIAH	ECE	LAB ASSISTANT	sivaramireddy321@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	MATLAB & Simulink Tools	Teaching	Excellent	Understood More about IIR &FIR Filters	Frequently Conduct this type of FDP	* * * * *
Mujtabauddi Ahmed	Ece(Esvlsid)	ME studeny	ahmedmujtaba265@gmail.com	Good	Very good	Very good	Excellent	Good	Very good	Excellent	Very good	Electric Vehicle Modeling & Simulation, Artificial Intelligence / Machine Learning	Skill Development	Good	First 3 days	Rest three days were not that good and new	* * *
I JAGAN MOHAN EDDY	ECE	ASSISTANT PROFESSOR	jaganmohanreddy_ece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Skill Development	Excellent	Topics organized very systematic	All is good	* * * * *

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Sai aishnavi	ECE-CE	Student	k.saivaishnavi27@gmail.com	Excellent	Excellent	Excellent	Very good	Excellent	Very good	Very good	Very good	Signal Processing, Optimization Techniques, Artificial Intelligence / Machine	Research, Skill Development	Very good	Hands-on session	Need more sessions like this	****
emmala anjana	ECE- CE	Student	sanjananimmala6@gmail.com	Excellent	Excellent	Excellent	Very good	Excellent	Very good	Very good	Very good	Signal Processing, Optimization Techniques, Artificial Intelligence / Machine	Research, Skill Development	Very good	Hands on session	Need more session like this	****
ai Krishna ondoju	Electronics and Communication	Assistant Professor	ksaikrishna_ece@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Industry Applications, Skill Development	Excellent	Signal Processing & Optimization	No	*****
.Sree amani	Mathematics	Assistant Professor	sreeramani_maths@cbit.ac.in	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Optimization Techniques, Artificial Intelligence / Machine Learning, MATLAB &	Teaching, Research, Industry Applications, Skill Development	Excellent	My	Optimisation techniques	*****
Makhan Vishal singh	ECE-CE	Student	vishalsingh2462@gmail.com	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Excellent	The overall workshop was filled with	Need more workshops like this.	*****
N SUJATA GUPTA	COMPUTER ENGINEERING	ASSISTANT PROFESSOR	sujataguptan_cet@cbit.ac.in	Very good	Very good	Very good	Very good	Very good	Excellent	Excellent	Very good	Electric Vehicle Modeling & Simulation, Artificial Intelligence / Machine Learning,	Skill Development	Very good	Hands on sessions on math works	no	****
Tejavath manasa	Ece	Student	manasatejavath956@gmail.com	Excellent	Very good	Very good	Very good	Excellent	Excellent	Excellent	Very good	MATLAB & Simulink Tools	Skill Development	Very good	Quality of presentations and learning materials	No	*****
Burunolla Balauday	EEE	Student	balauday.burunolla@gmail.com	Excellent	Very good	Very good	Excellent	Excellent	Very good	Very good	Excellent	Electric Vehicle Modeling & Simulation, Signal Processing, MATLAB & Simulink	Research, Skill Development	Excellent	Electric Vehicle Modeling & Simulation	Nothing	*****
P Naveen	Ece	Embedded systems and vlsi	naveenpopuri0@gmail.com	Very good	Excellent	Very good	Excellent	Very good	Excellent	Excellent	Very good	Signal Processing, MATLAB & Simulink Tools	Teaching	Very good	Organising the sessions	Plan in the proper date where everyone can	*****
Dudam Bharath Kumar	Civil Engineering	Assistant Professor	dbharath.iitkgp@gmail.com	Very good	Good	Good	Good	Good	Good	Good	Very good	Optimization Techniques, Artificial Intelligence / Machine Learning, MATLAB &	Teaching, Research, Skill Development	Good	IKS on Palm leave inscription	Practical sessions with hands-on	****

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J. Poornachandar	CSE	CO	poornachandaru_co@cbit.ac.in	Excellent	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Very good	Nice presentation & teaching	Session time adjustments needed to attend all	*****
Gangamadri Poojitha	ECE-CE	Student	poojithagangamadri@gmail.com	Excellent	Excellent	Very good	Excellent	Excellent	Excellent	Excellent	Very good	Electric Vehicle Modeling & Simulation, Artificial Intelligence / Machine Learning	Industry Applications, Skill Development	Excellent	Matlab simulation techniques and also the	NA	*****
J. Poornachandar	CSE	Computer Operator	poornachandaru_co@cbit.ac.in	Excellent	Very good	Very good	Very good	Very good	Very good	Very good	Very good	Electric Vehicle Modeling & Simulation, Signal Processing, Optimization	Teaching, Research, Industry Applications, Skill Development	Very good	Explanation of the subject matter	Timings to be adjusted for all to attend all the sessions	*****