

## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

Department of Electrical and Electronics Engineering

S.No	Name of the value-added courses (with 30 or more contact hours) offered	Course Code, if any	No. of times offered during the year	Duration of course (in hours)	Number of students enrolled	Number of students who completed the course	Page No
1	Electrical Vehicle Technology	CBIT/EEE/23/1	1	32	49	49	2-64
2	Superconducting Power Systems	CBIT/EEE/23/2	1	31	66	66	65-71
3	MATLAB and Machine Learning for Engineering Applications.	CBIT/EEE/23/3	1	30	60	60	72-86

*[Handwritten Signature]*  
HEAD  
Dept. of EEE, CBIT (A)  
Gandhinagar, Hyderabad-75

### ABOUT CBIT (AUTONOMOUS)

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 12 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.59 on a four-point scale at 'A++' grade in 2023 for five years. CBIT is ranked in the rank band 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres.

### ABOUT EEE 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 and 2024. The department has received grants worth around ₹90 Lakhs from AICTE/MHRD under RPS, MODROBS, FDP, STTP, etc. The Department is offering consultancy services worth ₹21 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 THE COURSE

India is currently experiencing a significant shift towards e-mobility. With the government's support and favourable policies, the Electric Vehicle (EV) market in the country is growing rapidly. The rising demand for clean and sustainable transportation has led to a surge in EV sales. The Indian government has implemented various initiatives to promote EV manufacturing, develop charging infrastructure, and encourage research and development in the sector. To meet the increasing demand for skilled professionals in the EV industry, the "Electric Vehicle Training" has become need of the hour. This course provides hands-on training, cutting-edge technology, and industry collaborations to equip participants with the knowledge and skills necessary to excel in the evolving EV market. By closing the skill gap and fostering innovation, the Electric Vehicle Training is playing a vital role in shaping the future of e-mobility in India.

**Course Duration: "30 hours"**

#### WHO CAN ATTEND?

- ❖ UG students, PG Students and Industry personnel

#### OBJECTIVES OF THE COURSE

- ❖ To provide participants with a comprehensive understanding of the technologies driving sustainable energy solutions.
- ❖ To comprehend in-depth knowledge of EV systems, proficiency in solar energy applications, and expertise in energy storage systems.
- ❖ To empower the participants to contribute actively to the clean energy transition.



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

in Association with  
**EV RETRON Energies India Pvt Ltd.**

**A Short Term Training Course  
(Value added Course)**

on

**Electric Vehicle Technology  
(Hybrid Mode)**

---

**24-04-2024 to 03-05-2024**

Organizing by  
**Department of EEE  
Chaitanya Bharathi Institute of Technology  
(Autonomous)**

Affiliated to Osmania University,  
Accredited by NAAC A++ Grade,  
Kokapet (V), Gandipet (M), Hyderabad-75,  
Telangana State, India.

### CHIEF PATRON

**Sri. N. Subash**  
President, CBIT

### PATRON

**Prof. C. V. Narasimhulu**  
Principal, CBIT

### CONVENER

**Prof. M. Balasubba Reddy**  
Professor & Head, Department of EEE, CBIT

### CO-ORDINATORS

**Dr. T. Murali Krishna**  
Associate Professor, Dept. of EEE, CBIT  
**Dr. B. Sureh Kumar**  
Associate Professor, Dept. of EEE, CBIT

### CO-CORDINATORS

**Dr. G. Suresh Babu**  
Professor, Dept. of EEE, CBIT  
**Dr. K. Krishnaveni**  
Professor, Dept. of EEE, CBIT

### ORGANIZING COMMITTEE

All Teaching and Non-Teaching staff of EEE Department

### ADVISORY COMMITTEE

**Prof. P. Ravinder Reddy**, Director & Head of R&E Hub  
**Dr. N. Trivikrama Rao**, Director-IQAC  
**Prof. Suresh Pabboju**, Director - AEC & CoE  
**Prof. M. Sushanth Babu**, Director - Academics  
**Prof. P.V.R. Ravindra Reddy**, Director-SAP  
**Prof. A.D.Sarma**, Advisor Research & Development  
**Prof. U. K. Choudhury**, Advisor-Innovation & Incubation  
**Prof. P.V. Prasad**, Controller of Examinations  
**Dr. N. L. N. Reddy**, Advisor - CDC

### RESOURCE PERSONS:

- ❖ Er. Deepesh Kumar Barla-Co-Founder & M.D., EVERTRON Energies PVT Ltd.
- ❖ Dr. U. K. Choudhury, Advisor, I & I, CBIT
- ❖ Dr. K. Krishnaveni, Prof., EEED, CBIT
- ❖ Dr. G. Suresh Babu, Prof. EEED, CBIT

### OUTCOMES OF THIS COURSE

On Successful completion of this course, participants will be able to:

- ❖ Develop a comprehensive understanding of EV technology, solar energy systems, and energy storage, enhancing Students proficiency and upskill
- ❖ Acquire hands-on experience through practical exercises, enabling Students to incorporate real-world applications and contribute to practical skill development.
- ❖ Gain insights into environmental impacts, regulations, and industry trends, empowering students to integrate sustainability principles into their research, and fostering a more environmentally conscious community.

### REGISTRATION FEE:

- ❖ ₹ 1001/- for UG & PG students
- ❖ ₹ 2001/- for Industry personnel

For Registration & Other Details, Contact:

Dr. T. MURALI KRISHNA, Ph. No: 9866479770

Payment can be done through QR code given below



Merchant Name : CBITSTUDENTACTIVITIES  
Mobile Number : 9469971254



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

in Association with  
**EV RETRON Energies India Pvt Ltd.**

**A Short Term Training Course  
(Value added Course)**

on

**Electric Vehicle Technology  
(Hybrid Mode)**

**24-04-2024 to 03-05-2024**

### Registration Form

1. Name: .....
2. Branch & Year.....
3. Semester: .....
4. Address: .....  
.....  
.....
5. Mobile No. ....
6. Email ID: .....

Signature of the Participant



**TRAINING SESSION ON**

# **ELECTRIC VEHICLE TECHNOLOGY**



# CONTENTS

**I**

**About**

**III**

**Curriculum**

**II**

**Objective &  
Outcomes**

# About

India is currently experiencing a significant shift towards e-mobility. With the government's support and favorable policies, the electric vehicle (EV) market in the country is growing rapidly.

The rising demand for clean and sustainable transportation has led to a surge in EV sales. The Indian government has implemented various initiatives to promote EV manufacturing, develop charging infrastructure, and encourage research and development in the sector.

To meet the increasing demand for **skilled professionals** in the EV industry, the "**Electric Vehicle Training**" has been established as a leading training hub. The laboratory provides hands-on training, cutting-edge technology, and industry collaborations to equip students with the knowledge and skills necessary to excel in the evolving EV market.

By closing the skill gap and fostering innovation, the **Electric Vehicle Training** is playing a vital role in shaping the future of e-mobility in India.

Together, let's accelerate towards a cleaner and greener transportation landscape.



# Learning Objective

The Electric Vehicle (EV) and Energy Storage System course is designed to provide participants with a comprehensive understanding of the technologies driving sustainable energy solutions. By the end of the course, participants will acquire in-depth knowledge of EV systems, proficiency in solar energy applications, and expertise in energy storage systems, empowering them to contribute actively to the clean energy transition and excel in their roles within the rapidly evolving fields of electric mobility and energy storage.

## Training Outcomes

Upon completing the Faculty Development Program on EV, Solar, and Energy Storage Systems, participants will:

- a. Deepen Subject Expertise:** Develop a comprehensive understanding of EV technology, solar energy systems, and energy storage, enhancing Students proficiency and upskill.
- b. Integrate Practical Skills:** Acquire hands-on experience through practical exercises, enabling Students to incorporate real-world applications and contribute to practical skill development.
- c. Promote Sustainability Education:** Gain insights into environmental impacts, regulations, and industry trends, empowering students to integrate sustainability principles into their research, and fostering a more environmentally conscious community.

# Curriculum

## Online Training

Day	Module	Topics	Type of Lecture
<b>Day 1</b>	<b>Introduction to Electric Vehicle &amp; Motor Technology</b>		
<b>26th April</b>	Module 1	Introduction to Electric Vehicle Technology 1. Introduction to Electric Vehicle 2. Types of Electric Vehicle 3. Electric Vehicle Drive train	Theoretical
	Module 2	EV Motor Technology 1. Demonstration of types of Motor 2. Working of Motor 3. Assembly and Testing of Motor	Theoretical
<b>Day 2</b>	<b>Electric Vehicle Battery Technology</b>		
<b>27th April</b>	Module 3	Li-ion Battery Pack 1. Fundamentals of Battery Pack Considerations of Battery Pack 2. Parts of Battery Pack Manufacturing Process 3. Fundamentals of BMS (Battery management system) BMS Technology	Theoretical
	Module 4	Calculation, Simulation and Analysis 1. Pack Voltage and Current Calculation 2. Series and Parallel Battery pack configuration 3. Battery pack Thermal Simulation	Theoretical
<b>Day 3</b>	<b>Understanding Energy Storage Systems</b>		
<b>29th April</b>	Module 5	1. Introduction to Energy Storage System 2. Types of Energy Storage System 3. Introduction and Fundamental of Battery Energy Storage System 4. Applications of ESS	Theoretical
<b>Day 4</b>	<b>Case Study</b>		
<b>30th April</b>	Module 6	1. Case Study of PoPA Residential ESS 2. DFMEA Analysis	Theoretical
<b>Day 5</b>	<b>EV Charging Technology &amp; Standards</b>		
<b>1st May</b>	Module 7	EV Charging technology 1. Introduction on EV Charging technology 2. Types of EV Chargers & Connectors	Theoretical
	Module 8	EV Certifications & Standards 1. AIS 156, 038, 048 2. IEC standards	Theoretical



# Curriculum

## **Time:**

Evening 6:00 PM - 7:30 PM

## **Speakers:**

1. Deepesh Kumar- Co-founder & MD, EV Retron Energies
2. Priyanka Kaluvala- Research Analyst, EV Retron Energies
3. Neha Nandargi- Battery Engineer, EV Retron Energies



RETRON ENERGIES

EV Retron Energies India Pvt Ltd

# THANK YOU

*"Time for change.  
Time for Upskill"*



Scan for Website

 Retron Energies  
 EV Retron Energies  
 Retron Energies  
 9391059446



## Department of Electrical & Electronics Engineering

### Schedule of Value Added Course on Electric Vehicle Technologies 24<sup>th</sup> April 2024 – 03<sup>rd</sup> May 2024

	06.00 PM – 8.30 PM
<b>24-04-2024</b> Wednesday	Basics of AC Electric Drives by <b>By Dr. G. Suresh Babu, Prof. Dept. of EEE, CBIT,</b>
<b>25-04-2024</b> Thursday	Basics of DC Electric Drives by <b>By Dr. K Krishnaveni, Prof. Dept. of EEE, CBIT,</b>
<b>26-04-2024</b> Friday	Introduction to Electric Vehicle Technology, Types, Drive train & Assignment <b>By Deepesh Kumar, MD. EV Retron Energy India Pvt. Ltd.</b>
<b>27-04-2024</b> Saturday	Fundamentals of Battery Pack, Considerations & Parts of Battery Pack Manufacturing Process <b>By Neha. Battery Engineer, EV Retron Energy India Pvt. Ltd.</b>
<b>29-04-2024</b> Monday	Introduction to Energy Storage System, Types, Fundamentals of Battery Energy Storage <b>By Deepesh Kumar MD. EV Retron Energy India Pvt. Ltd.</b>
<b>30-04-2024</b> Tuesday	EV Charging technology, Introduction on EV Charging technology Types of EV Chargers & Connector <b>By Neha. Battery Engineer, EV Retron Energy India Pvt. Ltd.</b>
<b>01-05-2024</b> Wednesday	EV Certification & Standards <b>By Priyanka. Research Analyst, EV Retron Energy India Pvt. Ltd.</b>

	9.00 AM-11.00.AM	Break	11.15 AM – 1.15 PM	Lunch Break	02.00 AM – 5.00 PM
<b>02-05-2024</b> Thursday	EV Emulator & Significance <b>By Deepesh Kumar. EV Retron Energy India Pvt. Ltd.</b>	<b>Break</b>	Hands on EV Emulator by <b>By Deepesh Kumar EV Retron Energy India Pvt. Ltd.</b>	<b>Lunch Break</b>	Hands on EV Emulator <b>By. Sandeep, EV Retron Energy India Pvt. Ltd.</b>
<b>03-05-2024</b> Friday	Performance Analysis of BLDC Motor under Different Load Conditions using EV Emulator by <b>By Deepesh Kumar. EV Retron Energy India Pvt. Ltd.</b>		Performance Analysis of BLDC Motor under Different Load Conditions using EV Emulator by <b>By. Sandeep, EV Retron Energy India Pvt. Ltd.</b>		Design and connection of cells in a battery and their Charging methods <b>By Deepesh Kumar. EV Retron Energy India Pvt. Ltd.</b>

VI-SEM D1

S.No	Name	Section	Sem	Roll Number
1	JARATHI AKSHAYA	D1	VI	160121734008
2	Nandyala Akshaya	D1	VI	160121734011
3	S.Keerthi	D1	VI	160121734015
4	S. Ysaswini	D1	VI	160121734016
5	K V Lalith Kumar Achar	D1	VI	160121734035
6	P Vinay Kumar	D1	VI	160121734051
7	Adithya goud	D1	VI	160121734058
8	Y. Sandeep	D1	VI	160121734062
9	Sindhu vyamsani	D1	VI	160121734303
10	PITLA KARTHIKEYA	D1	VI	160121734314

VI\_SEM D2

1	Aishwarya Bura	D2	VI	160121734074
2	GOPU SRUTHI	D2	VI	160121734079
3	Pravalika Kalaveni	D2	VI	160121734083
4	M Chandana	D2	VI	160121734085
5	MOTE SINDHU	D2	VI	160121734086
6	Jhansri P	D2	VI	160121734088
7	Dasari Akhil	D2	VI	160121734099
8	Gugulothu Vijay	D2	VI	160121734106
9	Muppidi Vamsi Krishna	D2	VI	160121734116
10	Solleti Rahul	D2	VI	160121734126
11	V.MARUTHI VENKATA	D2	VI	160121734132
12	K.Sriharsha Vyshnavi	D2	VI	160121734310
13	Qudsiya	D2	VI	160121734313
14	Malay Kasha	D2	VI	160120734094

IV-SEM D1

1	Kotte Haindavi Rao	D1	IV	160122734005
2	Riya kumari	D1	IV	160122734012
3	Krithisha Vuppala	D1	IV	160122734014
4	Bheema Sai Rithvik	D1	IV	160122734019
5	R Nitai charan	D1	IV	160122734047
6	TAMMANNAGARI SAI	D1	IV	160122734050
7	T.Samith	D1	IV	160122734051
8	T.Prabhas	D1	IV	160122734053
9	Veerla Supritha	D1	IV	160122734307
1	Nandini attaluri	D2	IV	160122734073
2	Lavanya Adapa	D2	IV	160122734080
3	Srujana	D2	IV	160122734082
4	Yelagandula vignasri	D2	IV	160122734089
5	Banothu Murali	D2	IV	160122734091
6	Elavala Sai Ankith Redd	D2	IV	160122734096
7	G.Sairam	D2	IV	160122734097
8	Gaurav Keesari	D2	IV	160122734098
9	R. Chaitanya Charan	D2	IV	160122734109
10	Sanga Sathwik	D2	IV	160122734112

11 S.SRIKARTHIK REDD D2	IV	160122734114
12 S.Santhi Vardhan D2	IV	160122734115
13 S.GURU KIRAN REDD D2	IV	160122734118
14 Mohammad Khaja Nas D2	IV	160122734313
ME-PSPE-II-SEM		
1 Khaja inshaal ali khan D1	IV	160123766009
2 MOHAMMAD AMAAN D1	IV	160123766010



**Department of Electrical & Electronics Engineering**

**Value Added Course on Electric Vehicle Technology**

S.No	Name	Section	Sem	Roll Number	24-04-2024	25-04-2024	26-04-2024	27-04-2024	29-04-2024	30-04-2024	01-05-2024	02-05-2024		03-05-2024	
														FN	AN
1	JARATHI AKSHAYA	D1	VI	160121734008	A	A	A	A	A	A	A	A	A	A	
2	Nandyala Akshaya	D1	VI	160121734011	A	A	A	A	A	A	A	A	A	A	A
3	S.Keerthi	D1	VI	160121734015	S.Keerthi	S.Keerthi	S.Keerthi	A	S.Keerthi	S.Keerthi	S.Keerthi	S.Keerthi	S.Keerthi	S.Keerthi	S.Keerthi
4	S. Yasaswini	D1	VI	160121734016	Nam	Keat	Kant	Kant	Kant	A	Kant	Kant	A	Kant	Kant
5	K V Lalith Kumar Achari	D1	VI	160121734035	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
6	P Vinay Kumar	D1	VI	160121734051	vinay	vinay	vinay	vinay	vinay	vinay	vinay	vinay	vinay	vinay	vinay
7	Adithya goud	D1	VI	160121734058	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy
8	Sindhu vyamsani	D1	VI	160121734303	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh	Paidh
9	PITLA KARTHIKEYA	D1	VI	160121734314	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika
10	Aishwarya Bura	D2	VI	160121734074	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
11	GOPU SRUTHI	D2	VI	160121734079	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi
12	Pravalika Kalaveni	D2	VI	160121734083	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika	Pravalika
13	M Chandana	D2	VI	160121734085	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana	M Chandana
14	MOTE SINDHU	D2	VI	160121734086	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu	M. Sindhu
15	Jhansri P	D2	VI	160121734088	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri	P. Jhansri
16	Dasari Akhil	D2	VI	160121734099	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil	Dasari Akhil
17	Gugulothu Vijay	D2	VI	160121734106	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay	G. Vijay
18	Muppidi Vamsi Krishna	D2	VI	160121734116	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi	M. Vamsi
19	Solleti Rahul	D2	VI	160121734126	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul
20	V.MARUTHI VENKATA TEJA	D2	VI	160121734132	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi	V. Maruthi
21	K Sriharsha Vyshnavi	D2	VI	160121734310	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha	K. Harsha
22	Qudsiya	D2	VI	160121734313	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya	Qudsiya
23	Kotte Haindavi Rao	D1	IV	160122734005	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi	K. Haindavi

**Value Added Course on Electric Vehicle Technology**

S.No	Name	Section	Sem	Roll Number	24-04-2024	25-04-2024	26-04-2024	27-04-2024	29-04-2024	30-04-2024	01-05-2024	02-05-2024		03-05-2024	
														FN	AN
24	Riya kumari	D1	IV	160122734012	Ry	Ry	Rya	Rya	Rya	Rya	Rya	Ry	Rya	Rya	Rya
25	Krithisha Vuppala	D1	IV	160122734014	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi	Krithi
26	Bheema Sai Rithvik	D1	IV	160122734019	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik	Rithvik
27	R Nitai charan	D1	IV	160122734047	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai	Nitai
28	TAMMANNAGARI SAIGANESH	D1	IV	160122734050	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai	Sai
29	T.Samith	D1	IV	160122734051	Samith	Samith	Samith	Samith	Samith	Samith	Samith	Samith	Samith	Samith	Samith
30	T.Prabhas	D1	IV	160122734053	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas	Prabhas
31	Veerla Supritha	D1	IV	160122734307	Supri	Supri	Supri	Supri	Supri	Supri	Supri	Supri	Supri	Supri	Supri
32	Nandini attaluri	D2	IV	160122734073	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini	A-Nandini
33	Lavanya Adapa	D2	IV	160122734080	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa	Adapa
34	Srujana	D2	IV	160122734082	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana
35	Yelagandula vignasri	D2	IV	160122734089	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri	Vignasri
36	Banothu Murali	D2	IV	160122734091	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali
37	Elavala Sai Ankith Reddy	D2	IV	160122734096	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR	ESAR
38	G.Sairam	D2	IV	160122734097	G.Sairam	G.Sairam	(A)	(A)	G.Sairam	G.Sairam	G.Sairam	G.Sairam	G.Sairam	G.Sairam	G.Sairam
39	Gaurav Keesari	D2	IV	160122734098	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav
40	R. Chaitanya Charan	D2	IV	160122734109	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya	Chaitanya
41	Sanga Sathwik	D2	IV	160122734112	Sathwik	Sathwik	Sathwik	Sathwik	Sathwik	Sathwik	Sathwik	Sathwik	(A)	S.Sathwik	S.Sathwik
42	S.SRIKARTHIK REDDY	D2	IV	160122734114	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik	S.Srikarthik
43	S.Santhi Vardhan	D2	IV	160122734115	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi	S.Santhi
44	S.GURU KIRAN REDDY	D2	IV	160122734118	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR	SGKR
45	Mohammad Khaja Nasiruddin	D2	IV	160122734313	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja	Khaja
46	Khaja inshaal ali khan	D1	IV	160123766009	(A)	Khaja	Khaja	Khaja	Khaja	Khaja	(A)	Khaja	Khaja	Khaja	Khaja
47	MOHAMMAD AMAANUDDIN	D1	IV	160123766010	(A)	Ammaan	Ammaan	(A)	Ammaan	Ammaan	(A)	Ammaan	Ammaan	Ammaan	Ammaan
48	MALAY KASHA	D2	VI	160121734076	Malay	Malay	(A)	Malay	Malay	Malay	Malay	Malay	Malay	Malay	Malay
49	Y. Sandeep	D1	VI	160121734062	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep	(A)	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Mandali Village, Mandali Banda, Hyderabad, Telangana-505675, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

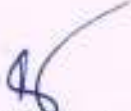
Mr./Ms. JARATHI AKSHAYA bearing


Roll No.: 160122734008 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240301



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Mandal Village, Gachibowli Mandal, Hyderabad, Telangana 500075. www.cbti.ac.in



# Certificate of Completion


This is to certify that

Mr./Ms. ✓ NANDYALA AKSHAYA bearing  
Roll No.: 160121734011 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024.....


Certificate ID : REV2D240302



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokkoti Village, Guntur Mandal, Hyderabad, Telangana 500075, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that


Mr./Ms. <sup>✓</sup> S. KEERTHI bearing


Roll No.: 160121734015 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240303

  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kalyani Nagar, Daburpet Mandal, Hyderabad, Telangana 500075. www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

Mr./Ms.  S. YASASWINI bearing

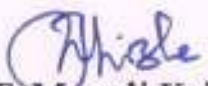
Roll No.: 160121734016 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

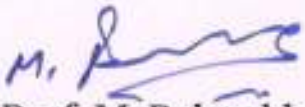
Date : 03-05-2024


Certificate ID : REV2.D24.0304



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Holkar Village, Gandharu Mandal, Hyderabad, Telangana 500075, www.cbti.ac.in



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. K.V. LALITH KUMAR ACHARI bearing  
Roll No.: 160121734035 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024.....


Certificate ID : REY20240305.....



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kuldar Village, Guntoor Mandal, Hyderabad. Telangana 500013, www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

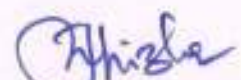
✓  
Mr./Ms. P. VINAY KUMAR bearing  
Roll No.: 160121734051 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240306

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Holkapet Village, Guntur District, Hyderabad, Telangana 500075, www.cbti.ac.in



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. ADITHYA GOUD bearing  
Roll No.: 160121734058 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240307



HS  
Dr. B. Suresh Kumar  
(Co-ordinator)

Thirala  
Dr. T. Murali Krishna  
(Co-ordinator)

M. Balasubba Reddy  
Prof. M. Balasubba Reddy  
(HOD-EEE)

C.V.N.  
Prof. C. V. Narasimhulu  
Principal - CBIT



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

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that


Mr./Ms. ✓ SINDHU VYAMSANZ bearing  
Roll No.: 160121734303 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240308

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kakapee Village, Gachapur Mandal, Hyderabad, Telangana-500075. www.cbait.ac.in



# Certificate of Completion


This is to certify that

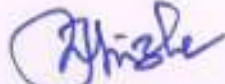
✓  
Mr./Ms. PETLA KARTHIKEYA bearing  
Roll No.: 160121734314 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240309



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kukatpally (Vengal Rao) | Ganapuri (Mandla) | Hyderabad, | Telangana-500075 | www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

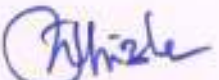
Mr./Ms.            AISHWARYA BURA           bearing  
Roll No.: 160121734074 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240310

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion

This is to certify that

Mr./Ms. ✓ GOPU SRUTHI bearing

Roll No.: 160121734079 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240311



Dr. B. Suresh Kumar  
(Co-ordinator)

Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
(HOD-EEE)

Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion

This is to certify that


Mr./Ms.                      PRAVALIKA KALAVENTI                     bearing

Roll No.: 160121734083 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240312



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kodigepet Village, Sanadipet Mandal, Hyderabad, Telangana 500070, www.cb.it.ac.in



# Certificate of Completion

This is to certify that


Mr./Ms.  M. CHANDANA bearing

Roll No.: 160121734085 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D24D313



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kandam Vilas, Gandam Bazar, Hyderabad, Telangana-500075. www.cbti.ac.in



# Certificate of Completion

This is to certify that


Mr./Ms. ✓ MOTE SINDHU bearing

Roll No.: 160121734086 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240314



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Muzaffar Village, Hanamkonda Mandal, Hyderabad, Telangana 500075, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

Mr./Ms. ✓ JHANSRI P bearing

Roll No.: 160121734088 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240315

  
**EVRETRON ENERGIES**  
Authorized Signatory

B  
Dr. B. Suresh Kumar  
(Co-ordinator)

Thirala  
Dr. T. Murali Krishna  
(Co-ordinator)

M. Balasubba Reddy  
Prof. M. Balasubba Reddy  
(HOD-EEE)

C.V.N.  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute Affiliated to Osmania University  
Kulshar Village, Dandam Marla, Hyderabad, Telangana 500075, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

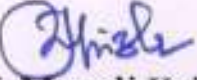
✓  
Mr./Ms. DASARI AKHIL bearing  
Roll No.: 160121734099 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240316

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that


✓  
Mr./Ms. GUGULOTHU VEJAY bearing  
Roll No.: 160121734106 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240317

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kulkarni Bhuga, Gandhi Market, Hyderabad, Telangana 500075, www.cbit.ac.in



# Certificate of Completion


This is to certify that

✓  
Mr./Ms. MUPPIDI VAMSI KRISHNA bearing  
Roll No.: 160121734116 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240318



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY  
An Autonomous Institute | Affiliated to Osmania University  
Koruturki Village, Hanamkonda Mandal, Hyderabad, Telangana 509115, www.cbti.ac.in



# Certificate of Completion


This is to certify that

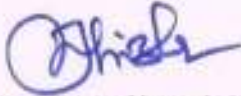
✓  
Mr./Ms. SOLLETTI RAHUL bearing  
Roll No.: 160121734126 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240319



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion


This is to certify that


✓  
Mr./Ms. V. MARUTHI VENKATA TEJA bearing  
Roll No.: 160121734132 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV.2D.24.0320



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Koraput Village, Guntur Mandal, Hyderabad, Telangana 502015. www.cbait.ac.in



# Certificate of Completion

This is to certify that

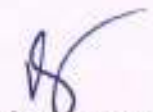
Mr./Ms. ✓ K. SRIHARSHA VYSHNAVI bearing

Roll No.: 160121734310 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240321



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana 500030, www.cbti.ac.in



# Certificate of Completion

This is to certify that

Mr./Ms. ✓ QUDSIYA bearing

Roll No.: 160121734313 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240322



[Signature]  
Dr. B. Suresh Kumar  
(Co-ordinator)

[Signature]  
Dr. T. Murali Krishna  
(Co-ordinator)

[Signature]  
Prof. M. Balasubba Reddy  
(HOD-EEE)

[Signature]  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kotam Vitega, Gandam Mandal, Hyderabad, Telangana-505015, www.cbit.ac.in



# Certificate of Completion

This is to certify that

Mr./Ms. ✓ KOTTE HAINDAVI RAO bearing

Roll No.: 160122734005 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV2D240323



[Signature]  
Dr. B. Suresh Kumar  
(Co-ordinator)

[Signature]  
Dr. T. Murali Krishna  
(Co-ordinator)

[Signature]  
Prof. M. Balasubba Reddy  
(HOD-EEE)

[Signature]  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokkoti Village, Gendur Manda, Hyderabad, Telangana-500070, www.cbti.ac.in



# Certificate of Completion

This is to certify that

Mr./Ms. BIYA KUMARI bearing

Roll No.: 160122734012 has Successfully completed a Value Added course on

Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,

CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024

to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240324



[Signature]  
Dr. B. Suresh Kumar  
(Co-ordinator)

[Signature]  
Dr. T. Murali Krishna  
(Co-ordinator)

[Signature]  
Prof. M. Balasubba Reddy  
(HOD-EEE)

[Signature]  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokkoti Village, Guntur District, Hyderabad, Telangana-502010, www.cbit.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

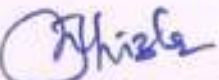
Mr./Ms.  KRITHISHA VUPPALA bearing  
Roll No.: 160122734014 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date :: 03-05-2024


Certificate ID :: REV20240325

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kakapudi Village, Dandamra Mandal, Hyderabad, Telangana-501075, www.cbit.ac.in



# Certificate of Completion


This is to certify that


✓  
Mr./Ms. BHEEMA SAI RITHVIK bearing  
Roll No.: 160122734019 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV.2024.0326



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kondapur Village, Gandhiji Nagar, Hyderabad | Telephone: 0800117 | www.cbti.ac.in



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. B. NITHAI CHARAN bearing  
Roll No.: 160122734047 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV.2.D.2403.27



B  
Dr. B. Suresh Kumar  
(Co-ordinator)

Thirika  
Dr. T. Murali Krishna  
(Co-ordinator)

M. Balasubba Reddy  
Prof. M. Balasubba Reddy  
(HOD-EEE)

C.V.N.  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokapalli Village, Gungunur Mandal, Hyderabad. Telephone: 9009173, www.cbti.ac.in



# Certificate of Completion


This is to certify that

✓  
Mr./Ms. TAMANNAGARI SAI GANESH bearing  
Roll No.: 160122734050 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240328



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kukatpally Road, Guntur Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in



# Certificate of Completion


This is to certify that

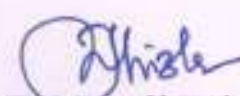
✓  
Mr./Ms. T. SAMITH bearing  
Roll No.: 160122734051 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date :: 03-05-2024


Certificate ID :: REV.20.24.03.29



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kajant Wasti, Gandipet Mandal, Hyderabad, Telangana 500075 | www.cbti.ac.in



# Certificate of Completion

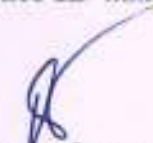
This is to certify that


✓  
Mr./Ms. T. PRABHAS bearing  
Roll No.: 160122734053 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV.20.24.03.30



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY  
An Autonomous Institute | Affiliated to Osmania University  
Bokant Village, Dandigal Mandal, Hyderabad, Telangana 500075, www.cbti.ac.in



# Certificate of Completion

This is to certify that

Mr./Ms.  VEERLA SUPRITHA bearing


Roll No.: 160122734307 has Successfully completed a Value Added course on


Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering, CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024 to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240331



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Khammam (M.D.), Guntur (M.D.), Hyderabad, Telangana 508301, www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that


Mr./Ms.  NANDINI ATTALURU bearing


Roll No.: 160122734073 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240332



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Koksal Village, Guntur Mandal, Hyderabad, Telangana 502015, www.cb.it.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

Mr./Ms. ✓ LAVANYA ADAPA bearing

Roll No.: 160122734080 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024

Certificate ID : REV20240333

**EV RETRON ENERGIES**  
Authorized Signatory

Dr. B. Suresh Kumar  
(Co-ordinator)

Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
(HOD-EEE)

Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokilab Wriggs, Guntur Mandal, Hyderabad, Telangana-502013, www.cbit.ac.in



# Certificate of Completion

This is to certify that

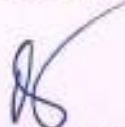
Mr./Ms. <sup>✓</sup> SRUJANA bearing

Roll No.: 160122734082 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240334



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kallam Road, Gandipet Mandal, Hyderabad, Telangana-500075. www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION **45**  
years

# Certificate of Completion

This is to certify that


Mr./Ms.  YELAGANDULA VINASRI bearing


Roll No.: 160122734089 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

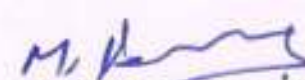
Date : 03-05-2024


Certificate ID : REV.20.24.03.35



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kakapee Village, Gandhara Mandal, Hyderabad, Telangana 500070. www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that


✓  
Mr./Ms. BANO THU MURALI bearing

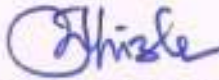
Roll No.: 160122734091 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REVAD240336

  
**EV RETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute / Affiliated to Osmania University  
Kokapet Village, Gandam Baram, Hyderabad, Telangana 500075. www.cbti.ac.in



# Certificate of Completion


This is to certify that


✓  
Mr./Ms. ELAVALA SAI ANKITH REDDY bearing  
Roll No.: 160122734096 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

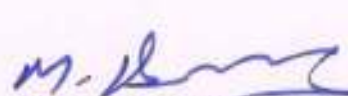
Date : 03-05-2024


Certificate ID : REV20240337



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. R. CHAITANYA CHARAN bearing

Roll No.: 160122734109 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

Date : 03-05-2024


Certificate ID : REV2D240340



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. G. SAIRAM bearing  
Roll No.: 160122734097 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240338



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. GAURAV KEESARI bearing

Roll No.: 160122734098 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024

Certificate ID : REV2D240339



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokkari Village, Santhosha Mandal, Hyderabad, Telangana-509017 | www.cbit.ac.in



# Certificate of Completion

This is to certify that


✓  
Mr./Ms. SANGA SATHWIK bearing

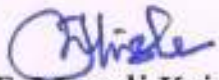
Roll No.: 160122734112 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REVAD240341



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokani Village, Gandam Baram, Hyderabad, Telangana-500075 www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

✓  
Mr./Ms. S. SRIKARTHIK REDDY bearing

Roll No.: 160122734114 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240342



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Mukund Salga, Hanamkonda, Hyderabad, Telangana 500075. www.cbit.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

✓  
Mr./Ms. S. SANTHI VARDHAN bearing

Roll No.: 160122734115 has Successfully completed a Value Added course on

Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering, CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024 to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D24D343



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Koksal Milap, Gachibowli Mandal, Hyderabad, Telangana-500075. www.cbit.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion

This is to certify that

✓  
Mr./Ms. S. GURU KIRAN REDDY bearing

Roll No.: 160122734118 has Successfully completed a Value Added course on

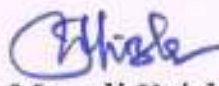
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering, CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024 to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D24D34A



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute Affiliated to Osmania University  
Kothapeta Village, Guntur District, Andhra Pradesh, Telangana-500075. www.cbti.ac.in



# Certificate of Completion


This is to certify that

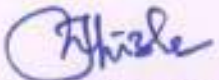
✓  
Mr./Ms. MOHAMMAD KHAJA NASIRUDDIN bearing  
Roll No.: 160122734313 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.

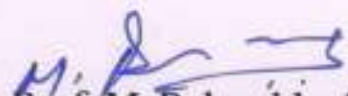
Date : 03-05-2024


Certificate ID : REV20240345



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kalyani Nagar, Gandhinagar Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in



# Certificate of Completion

This is to certify that

✓  
Mr./Ms. KHAJA INSHAAL ALI KHAN bearing  
Roll No.: 160123766009 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240346



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kopanil Village, Santhosha Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION **45**  
years

# Certificate of Completion


This is to certify that


✓  
Mr./Ms. MOHAMMAD AMAANUDDIN bearing  
Roll No.: 160123766010 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV20240347



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



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



# Certificate of Completion


This is to certify that

✓  
Mr./Ms. MALAY KASHA bearing  
Roll No.: 160120734094 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240348



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kukatpally Village, Goudpet Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

Mr./Ms. Y. SANDEEP bearing  
Roll No.: 160121734062 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to 03/05/2024.


Date: 03-05-2024


Certificate ID: REV2D240349



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
Principal - CBIT





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

**A REPORT ON**  
**VALUE ADDED COURSE**

**ON**

**SUPERCONDUCTING POWER SYSTEMS**

From 16<sup>th</sup> February to 08<sup>th</sup> March 2024

**A.Y 2023-24**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Organized by**

**Dr. M. Balasubbareddy**

HOD EEE/Coordinator, Dept. of EEE

Chaitanya Bharathi Institute of Technology, Hyderabad,  
**India**

**Dr. P. Venkata Prasad**

Coordinator

Professor, Dept. of EEE

Chaitanya Bharathi Institute of Technology, Hyderabad,  
**India**

**Dr. P. Kowstubha**

Co-Coordinator

Associate Professor, Dept. of EEE

Chaitanya Bharathi Institute of Technology, Hyderabad,  
**India**

### Course Objectives

- > Understand Superconductivity: Explore the physics behind superconductivity, including material properties and behavior at cryogenic temperatures.
- > Learn Applications in Power Systems: Gain insights into the use of superconductors in power transmission, storage, and grid stability.
- > Analyze System Design and Challenges: Examine the design, operation, and practical challenges of superconducting power systems.
- > Explore Technological and Economic Implications: Assess the role of SCPS in modern energy systems and their impact on the energy industry.

### Course Outcomes

After completing the course, the student will be able to:

- > 1. Describe the basic properties of superconductors relevant to electric power applications
- > 2. Understand the pros and cons of various applied superconducting materials
- > 3. Explain the benefits of superconductors in some power applications
- > 4. Understand the design challenges of superconducting power devices
- > 5. Understand the basics of cryogenic technology as applied to superconducting power devices

### Chief Patron

**Sri. N. Subash**  
President, CBIT

### Patron

**Prof. C. V. Narasimhulu**  
Principal, CBIT

### Coordinators

**Dr. M. Balasubbareddy**  
Professor & HoD, Dept. of EEE  
**Dr. P. Venkata Prasad**  
Professor, Dept. of EEE

### Co-coordinator

**Dr. P. Kowstubha**  
Associate Professor, Dept. of EEE

### Advisory Committee

**Dr. A.D. Sarma**  
Advisor, R&D  
**Dr. U.K. Choudhury**  
Advisor, I&I  
**Dr. K. Krishnaveni**  
Professor, Dept. of EEE  
**Dr. G. Suresh Babu**  
Professor, Dept. of EEE  
**Dr. T. Sudhakar Babu**  
Assoc. Director, R&D

## Department of Electrical and Electronics Engineering



In Association With

Indo-US International

A Short term training Course

(Value added Course)  
on

**Superconducting Power Systems**

26<sup>th</sup> February to 08<sup>th</sup> March 2024  
(Hybrid Mode)



**Chaitanya Bharathi Institute of Technology**

(Autonomous under UGC)  
Affiliated to Osmania University  
Kokapet (Village), Gandipet,  
Hyderabad – 500075  
Telangana State, India.  
[www.cbti.ac.in](http://www.cbti.ac.in)

### 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 Practices, 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 ₹50 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 Course

This course provides a comprehensive understanding of superconducting power systems (SCPS), covering the fundamental principles of superconductivity, its applications in power systems, and the design and operation of superconducting devices. The program integrates theoretical knowledge with practical insights, preparing students to work on advanced energy technologies in academic, research, or industrial settings.

**Course Duration: "30 hours"**

### WHO CAN ATTEND?

↳ UG students, PG Students and Industry personnel

### Resource Persons

**Dr. Sastry Pamidi**  
Professor and Chair  
FAMU-PSU College of Engineering Tallahassee,  
USA

**Dr. M. Balasubbareddy**  
Professor  
Chaitanya Bharathi Institute of Technology,  
Hyderabad, India

**Dr. P. Venkata Prasad**  
Professor  
Chaitanya Bharathi Institute of Technology,  
Hyderabad, India

### Contact Details

**Dr.M.Balasubbareddy**  
Coordinator  
Mobile: +91-9885308064  
Email Id: [balasubbareddy\\_eee@cbti.ac.in](mailto:balasubbareddy_eee@cbti.ac.in)



In Association With

Indo-US International

A Short term training Course

(Value added Course)  
On

**Superconducting Power Systems**

26<sup>th</sup> February to 08<sup>th</sup> March 2024  
(Hybrid Mode)

### Registration Form

1. Name: .....
2. Branch & Year: .....
3. Semester: .....
4. Address: .....
5. Mobile No. ....
6. Email ID: .....

Signature of the Participant







**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Koppepet Village, Gandipet Mandal, Hyderabad, Telangana-500076, www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

**HEARTY WELCOME**

to

**Dr. Sastry Pamidi**

Professor and Chair

FAMU-FSU College of Engineering,  
Tallahassee, USA

**Lecture Series on  
Superconducting Power Systems**

**16th February -08th March 2024**

Sponsored by



**Venue**

**N-Block Seminar Hall**

**Organized by**

**Department of  
Electrical & Electronics Engineering**

### **About Course**

This course is sponsored by SPARC in association with INDO-US. It provides a comprehensive understanding of superconducting power systems (SCPS), covering the fundamental principles of superconductivity, its applications in power systems, and the design and operation of superconducting devices. The program integrates theoretical knowledge with practical insights, preparing students to work on advanced energy technologies in academic, research, or industrial settings. Total 66 students participated in the value added course.

### **Course Objectives:**

After completing the course, the student will be able to:

1. Describe the basic properties of superconductors relevant to electric power applications
2. Understand the pros and cons of various applied superconducting materials
3. Explain the benefits of superconductors in some power applications

4. Understand the design challenges of superconducting power devices
5. Understand the basics of cryogenic technology as applied to superconducting power devices
6. Understand the basic design features of various superconducting power device demonstrations
7. Understand the applications of superconducting technology in the modern electric power sector
8. Emerging trends in sustainable energy systems, including the use of hydrogen as an energy carrier

**Topics Covered:**

1. High Temperature Superconducting Materials (HTS)
2. Basic Cryogenic Technology Used in HTS Power Applications
3. Superconducting Power Cables (AC and DC)
4. Superconducting Fault Current Limiters
5. Superconducting Transformers
6. Superconducting Motors and Generators
7. Examples and Case Studies of HTS Power Devices
8. AC Losses in HTS Conductors and Power Devices
9. Measurement Techniques for Characterizing HTS materials and devices
10. The synergy between superconducting technology and hydrogen as an energy carrier.



## **Career Opportunities**

- Research and development in superconducting technologies
- Roles in power grid companies and renewable energy firms
- Advanced roles in cryogenics and materials science industries
- Academia and teaching positions in energy systems and superconductivity

This course equips participants with the theoretical and practical tools needed to excel in the growing field of superconducting power systems.

## **REFERENCE:**

1. Superconductors in the Power Grid: Materials and Applications, edited by Christopher Rey, ISBN: 978-1-78242-029-3.

## Department of EEE, CBIT

### Value Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications

29<sup>th</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup>  
October 2023

#### Course Content

- ❖ Hands-on MATLAB Programming
- ❖ Implementation of Teaching Learning-based optimization (TLBO) in MATLAB
- ❖ Implementation of Differential evolution (DE) in MATLAB
- ❖ Implementation of Cuckoo Search Algorithm (CSA) in MATLAB
- ❖ Machine Learning for 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

**Dr. M. Balasubbareddy**  
Professor, Dept. of EEE  
Mobile: +91-9885308964

### Dr. P. Kowstubha

Associate Professor, Dept. of EEE  
Mobile: +91- 9676402000

### Dr. N. Venkataphanendrababu

Assistant Professor, Dept. of EEE  
Mobile: +91-8096909995

### For further details please contact:

E-mail: [balasubbareddy\\_eee@cbit.ac.in](mailto:balasubbareddy_eee@cbit.ac.in)  
[kowstubha\\_eee@cbit.ac.in](mailto:kowstubha_eee@cbit.ac.in)  
[phanendrababu\\_eee@cbit.ac.in](mailto:phanendrababu_eee@cbit.ac.in)



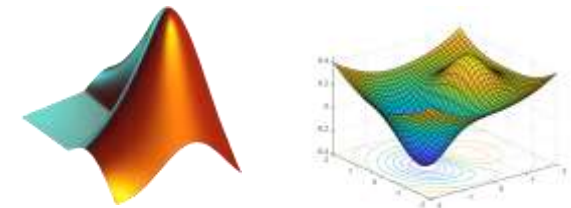
COMMITTED TO  
RESEARCH  
INNOVATION AND  
EDUCATION  
**45**  
years

## Department of Electrical and Electronics Engineering



### Value Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications

29<sup>th</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup>  
October 2023



### Chaitanya Bharathi Institute of Technology

(Autonomous under UGC)  
Affiliated to Osmania University  
Kokapet (Village), Gandipet,  
Hyderabad – 500075  
Telangana State, India.  
[www.cbit.ac.in](http://www.cbit.ac.in)



## 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 Value Added Course (VAC)

Heuristics is a solution strategy by trial-and-error to produce acceptable solutions to a complex problem in a reasonably practical time. The complexity of the problem of interest makes it impossible to search every possible solution or combination, the aim is to find good, feasible solutions in an acceptable timescale. There is no guarantee that the best solutions can be found, and we even do not know whether an algorithm will work and why if it does work. The idea is that an efficient but practical algorithm that will work most of the time and be able to produce good quality solutions. Among the found quality solutions, it is expected that some of them are nearly optimal, though there is no guarantee for such optimality.

Metaheuristic is an approach method based on a heuristic method that does not rely on the type of the problem. The metaheuristic method can be distinguished into two which are metaheuristic with single-solution based (local search) and metaheuristic based on population (random search). Metaheuristics algorithms provide suitable solutions for the path-finding problem in the IoT environment. Generally, these algorithms are classified into four main groups: evolutionary-based, swarm-based, human-based, and physics-based.



### Resource Persons

Resource Persons will be the expert faculty from CBIT, Hyderabad.



EEE department Front View



R&E Hub Top View

### Registration Link:

<https://forms.gle/MFZLN6ZGmRbffDdk9>

**Last date for the registration is 27/09/2023.**

CBIT,

25/09/2023.

To,

The principal,

CBIT (A), Hyderabad.

Sub: Req.-Approval-VAC- Organizing by EEE- Rgd.

Through-Proper-Channel

Respected Sir,

It is proposed to organize a Value Added Course (VAC) on "MATLAB and Machine Learning for Engineering Applications", by the Department of Electrical And Electronics Engineering in CBIT, during 29<sup>th</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup> October 2023.

Though this course on emerging tool focuses mainly the students of EEE, the interested students from other departments are also invited to register this course.

We request you permit us to conduct this course, sir. We also request you forward the same to W&BC to upload onto the website.

Thanking you sir,

Yours sincerely,

Dr. N Venkataphanendrababu,

Coordinator-VAC,

Assistant Professor,

EEE, CBIT (A), Hyderabad.

Forwarded  
M. Rave  
25/9/23

Forwarded to the Principal.  
May be permitted.  
G. V. S.  
25/9/2023

permitted  
G. V. S.





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cb.it.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

No.CBIT/ /Admn./2023

Dt.26.09.2023

### CIRCULAR

It is proposed to organize a Value Added Course (VAC) on “**MATLAB and Machine Learning for Engineering Applications**”, by the Department of Electrical And Electronics Engineering in CBIT, during **29<sup>th</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup> October 2023.**

All the interested Faculty and Students are directed to attend the event without detrimental to the class work and other important works. Attendance will be recorded for those who attend the event.

Brochure:

<https://drive.google.com/file/d/1CWry2VBJVX3PBUdx98Jn3KITWjbiSw1t/view?usp=sharing>

Registration:



For any further information contact the program Coordinators of the event, Dr. M Balasubbareddy, Professor & Head, Dr. P. Koustubha, Associate Professor, and Dr. N Venkataphanendrababu, Assistant Professor, EEED, Mobile: 9676402000/8096909995.

Principal

To

All the Advisors, Directors, Associate & Assistant Directors, Heads of the Departments, In-charges of Sections, Librarian, CoE, Head-HR, Asst. PD & PRO, for information and advised to circulate among all the staff and students under their control.

## MATLAB and Machine Learning for Engineering Applications

Instruction	3 Hours per week
Duration of Semester End Examination	30 Hours
Credits	3

### Course Objectives:

1. To acquire skills in MATLAB coding
2. To acquire the knowledge of Machine learning algorithms
3. To learn the intelligent approaches for the field of electrical engineering

**Course Outcomes:** After completion of the subject, students will be able to:

1. Understand the various Artificial Intelligent and Meta-heuristic Techniques
2. Classify the techniques according to their method of approach
3. Select the suitable technique for the given power system problem
4. Implement suitable Intelligent technique for the given power system problem
5. Execute any power system planning and operation using Artificial Intelligent Techniques

### UNIT-I

**Introduction to MATLAB Programming and Optimization:** Introducing MATLAB and the MATLAB Working Environment, MATLAB Programming, Basic MATLAB Functions for Linear and Non-Linear Optimization,

### UNIT-II

**Teaching Learning-based optimization (TLBO):** Introduction, Teacher phase and Learner phase of algorithm, modeling the Teacher phase and Learner phases, pseudo code, DE implementation in MATLAB.

### UNIT-III

**Differential evolution (DE):** Introduction, Variants, Choice of Parameters, Implementation, algorithm, pseudo code, DE implementation in MATLAB.

### UNIT-IV:

**Cuckoo Search Algorithm (CSA):** Cuckoo Breeding Behavior, Lévy Flights, Choice of Parameters, Cuckoo Search Algorithm, Variants of Cuckoo Search, pseudo code, DE implementation in MATLAB.

### UNIT-V

**Machine Learning for Engineering Applications:** Applications of heuristic algorithms, economic load dispatch, optimal placement of DGs, Optimal placement of Charging stations, optimal placement of phasor measurement units, optimizing PID controller for DC motor control

### Text Books:

1. Yang, X. S. (Ed.). (2017). *Nature-inspired algorithms and applied optimization* (Vol. 744). Springer.
2. Yang, X. S. (2020). *Nature-inspired optimization algorithms*. Academic Press.
3. Lopez, C. (2014). *MATLAB optimization techniques*. Apress.

### Suggested Reading:

1. Messac, A. (2015). *Optimization in practice with MATLAB®: for engineering students and professionals*. Cambridge University Press.
2. Sumathi, S., & Kumar, L. A. (2018). *Computational intelligence paradigms for optimization problems using MATLAB®/SIMULINK®*. CRC Press.



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



## DEPARTMENT OF ELECTRICAL and ELECTRONICS ENGINEERING

**Value Added Course (VAC) on "MATLAB and Machine Learning for Engineering Applications"**  
**29<sup>rd</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup> October 2023**

### Schedule

Day & Date	10:00am-11.30 am	11.30am – 1pm	1pm-2 pm	2.00 pm – 3.30pm	3.30 pm – 5.00pm
<b>Friday 29/09/2023</b>	Inauguration (MBSR)	Introduction to MATLAB (MBSR)	<b>L U N C H</b>	MATLAB Programming (MBSR)	Practical Session/Lab (NVPB/PK)
<b>Saturday 30/09/2023</b>	Optimization Techniques and TLBO Algorithm (MBSR)	TLBO implementation in MATLAB (MBSR)		Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
<b>Thursday 05/10/2023</b>	DE Algorithm (MBSR)	DE implementation in MATLAB (MBSR)		Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
<b>Friday 06/10/2023</b>	CSA Algorithm (MBSR)	CSA implementation in MATLAB (MBSR)		Practical Session/Lab (NVPB/PK)	Practical Session/Lab (NVPB/PK)
<b>Thursday 12/10/2023</b>	Introduction to Machine Learning and Deep Learning (MBSR)	Implementation of Machine learning algorithms (MBSR)		Test & Feedback (MBSR, NVPB, PK)	Valedictory (MBSR, NVPB, PK)

**MBSR:** Dr. M. Balasubbareddy, **PK:** Dr. P. Kowstubha, **NVPB:** Dr. N. Venkataphanendrababu

Head of the Dept., EEE

## VAC Report: MATLAB and Machine Learning for Engineering Applications

**Introduction:** The VAC titled "MATLAB and Machine Learning for Engineering Applications" was conducted to enhance participants' understanding of Artificial Intelligence (AI) and Meta-heuristic techniques, and their application in solving power system problems. The VAC provided a comprehensive platform for theoretical learning and practical implementation of intelligent techniques using MATLAB.

### Workshop Objectives:

1. Understand various Artificial Intelligent and Meta-heuristic Techniques.
2. Classify these techniques according to their method of approach.
3. Select suitable techniques for specific power system problems.
4. Implement appropriate Intelligent techniques for power system issues.
5. Execute power system planning and operation using Artificial Intelligent Techniques.

### Workshop Topics Covered:

1. **Introduction to Artificial Intelligence and Meta-heuristic Techniques:**
  - Overview of AI and its relevance to engineering applications.
  - Meta-heuristic algorithms, including Genetic Algorithms (GA), Particle Swarm Optimization (PSO), and Ant Colony Optimization (ACO).
2. **Classification of AI Techniques Based on Approach:**
  - Data-driven methods: Machine Learning algorithms like Neural Networks and Support Vector Machines.
  - Evolutionary techniques: Genetic Algorithms and Differential Evolution.
  - Swarm intelligence techniques: Particle Swarm Optimization and Ant Colony Optimization.
  - Hybrid approaches: Combining two or more techniques for improved results.
3. **Selection of Suitable Techniques for Power System Problems:**
  - Identifying problem characteristics such as non-linearity, uncertainty, and multi-objective requirements.
  - Matching problem requirements with the strengths of AI or Meta-heuristic techniques.
  - Case studies on load forecasting, fault detection, and energy management.
4. **Implementation of Intelligent Techniques in MATLAB:**
  - Step-by-step demonstration of algorithm implementation using MATLAB.
  - Designing and testing Neural Networks for load forecasting.
  - Optimization of power flow using PSO and GA.
5. **Power System Planning and Operations Using AI Techniques:**
  - Application of AI for grid stability and reliability.
  - Examples of AI-driven solutions for renewable energy integration.
  - Simulation of demand response management using AI tools.

**Hands-On Sessions:** Participants were provided practical exposure to:

- Developing custom MATLAB scripts for AI models.
- Analyzing power system datasets using Machine Learning techniques.
- Optimizing power system operations using Meta-heuristic algorithms.

**Key Outcomes:**

- Enhanced understanding of AI and Meta-heuristic techniques.
- Ability to classify and select suitable methods for engineering problems.
- Proficiency in implementing AI models in MATLAB for power system applications.
- Practical knowledge of executing power system planning and operations using AI-driven techniques.

**Participant Feedback:** The workshop received highly positive feedback, with participants appreciating the balance between theory and practical sessions. Many highlighted the clarity of explanations and the relevance of examples to real-world applications.

**Conclusion:** The "MATLAB and Machine Learning for Engineering Applications" workshop successfully equipped participants with the knowledge and skills to apply AI and Meta-heuristic techniques in power system problems. The hands-on experience ensured that attendees could confidently implement these methods in their respective fields.

**Recommendations for Future Workshops:**

- Advanced topics such as Deep Learning and Hybrid Optimization techniques.
- Real-time system integration and hardware implementation.
- Extended sessions for more in-depth hands-on practice.

**Participation:**

The program saw active participation from faculty members, and students. The sessions were interactive, providing a platform for participants to discuss and resolve queries.

**List of Participants:**

<b>S.No.</b>	<b>Name of the staff</b>	<b>Designation</b>	<b>DEPARTMENT</b>
1.	Dr. M. Balasubba Reddy	Professor	EEE, CBIT
2.	Dr. T.Murali Krishna	Associate Professor	EEE, CBIT
3.	Dr. T.Sudhakar Babu	Associate Professor	EEE, CBIT
4.	Sri. I. Pranav	Assistant Professor	EEE, CBIT
5.	Sri. D.Harrsha	Assistant Professor	EEE, CBIT
6.	Dr. Madhulika Das	Assistant Professor	EEE, CBIT
7.	Dr.Yawer Abbas Khan	Assistant Professor	EEE, CBIT
8.	Sri. D. Sathish	Assistant Professor	EEE, CBIT
9.	Smt. D. Sushma	Assistant Professor	EEE, CBIT

<b>B.E-VII-SEM-D1</b>				
<b>S.No</b>	<b>Roll Number</b>	<b>Name of the Student</b>	<b>SEM</b>	<b>Section</b>
1	160120734003	BURA AKSHAYA	VII	EEE-D1
2	160120734004	DHAMMA DIVYA REDDY	VII	EEE-D1
3	160120734006	CHUNDURU GOWTHAMI	VII	EEE-D1
4	160120734007	KANCHAPU JAYA SAI TANMAYI	VII	EEE-D1
5	160120734009	POOSKUR KUNDANA	VII	EEE-D1
6	160120734012	NOUREEN SULTANA	VII	EEE-D1
7	160120734013	NARAYANA POOJA REDDY	VII	EEE-D1
8	160120734015	PUNUMALLI PRAVALLIKA	VII	EEE-D1
9	160120734016	VAVILALA ROHITHA RAGA	VII	EEE-D1
10	160120734019	CHEELA TEJASRI	VII	EEE-D1
11	160120734020	VAISHNAVI SANUGOMMULA	VII	EEE-D1
12	160120734021	GANJI ADWAITH	VII	EEE-D1
13	160120734027	C CHARAN KUMAR	VII	EEE-D1



14	160120734028	MOHAMMED FAISAL	VII	EEE-D1
15	160120734029	MD FERDOUES	VII	EEE-D1
16	160120734030	VADDE GANESH	VII	EEE-D1
17	160120734031	GADDE GNANDEEP	VII	EEE-D1
18	160120734032	VUTUKURI GOPICHAND	VII	EEE-D1
19	160120734034	KADARI KOWSHIKK	VII	EEE-D1
20	160120734036	SAKAM MANIKANTA REDDY	VII	EEE-D1
21	160120734041	AMGOTH RAVINDER NAIK	VII	EEE-D1
22	160120734042	GAJWARI SAI KIRAN	VII	EEE-D1
23	160120734047	NATHAM SANTOSH	VII	EEE-D1
24	160120734049	V SHANTAN RAMI REDDY	VII	EEE-D1
25	160120734055	GUNDLA SRIDHAR REDDY	VII	EEE-D1
26	160120734058	KUNDURU VENKATA SAI CHARAN REDDY	VII	EEE-D1
27	160120734303	GANJI ESHWAR	VII	EEE-D1
28	160120734304	BURA NAGASRI	VII	EEE-D1
29	160120734305	BANOTH HARJUN	VII	EEE-D1

<b>B.E-VII-SEM-D2</b>				
<b>S.No</b>	<b>Roll Number</b>	<b>Name of the Student</b>	<b>SEM</b>	<b>Section</b>
1	160120734061	DARAVATH ANUSHA	VII	EEE-D2
2	160120734062	SHAIK AYESHA FARHEEN	VII	EEE-D2
3	160120734063	NENDRALLA BHAVANA	VII	EEE-D2
4	160120734064	THATICHETLA BHUVANA PALINI	VII	EEE-D2
5	160120734068	DANDU NIHARIKA	VII	EEE-D2
6	160120734073	GUJJA RISHITHA	VII	EEE-D2
7	160120734074	NANDIKONDA SAIARUN	VII	EEE-D2
8	160120734076	TEYNAMPET SHREYA	VII	EEE-D2
9	160120734077	GUNDA SREESHMA	VII	EEE-D2
10	160120734080	D VAISHNAVI	VII	EEE-D2

11	160120734090	RASAMADUGU HAREYAANK	VII	EEE-D2
12	160120734091	ANUMALLA HARSHITH	VII	EEE-D2
13	160120734095	M KIRAN KUMAR	VII	EEE-D2
14	160120734097	MADHILESH ERRAMSHETTI	VII	EEE-D2
15	160120734099	CHALASANI MAHESH TEJA	VII	EEE-D2
16	160120734102	VADGURE PAVAN KALYAN	VII	EEE-D2
17	160120734104	PUSULURI PRANAY	VII	EEE-D2
18	160120734106	BASHABOINA RAJU	VII	EEE-D2
19	160120734308	PATTURI SAI PRIYA	VII	EEE-D2
20	160120734310	GANGULA AKASH	VII	EEE-D2
21	160120734311	YADAGIRI AKANKSHA	VII	EEE-D2
22	160120734312	MUZAFFAR NAVEED	VII	EEE-D2

<b>M.E-PSPE</b>			
<b>S.No</b>	<b>Roll Number</b>	<b>Name of the Student</b>	<b>Branch</b>
1	160122766001	NARASIMHULU	M.E-PSPE
2	160122766002	BEEMARI PRANESH	M.E-PSPE
3	160122766003	A IHTESHAM UDDIN AHMED	M.E-PSPE
4	160122766004	MARAPALLY SAI CHARAN	M.E-PSPE
5	160122766005	SUNKARI SRILATHA	M.E-PSPE
6	160122766006	BOLLE SHIRISHA	M.E-PSPE
7	160122766007	DEVSOOTH SRINIVAS	M.E-PSPE
8	160122766008	SANGEETHA BACHALA	M.E-PSPE
9	160122766009	ERPULA RANI	M.E-PSPE

## Photos:

VAC

# Introduction to MATLAB

## ELECTRICAL & ELECTRONICS ENGINEERING

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY  
(Autonomous)

Dr. M. Suresh Babu

Participants: DD, RR, GR

### Mathematical Functions

- `round(x)` Rounds a number to the nearest integer
- `ceil(x)` Rounds a number up to the nearest integer
- `floor(x)` Rounds a number down to the nearest integer
- `fix(x)` Rounds a number to the nearest integer towards zero
- `rem(x,y)` The remainder left after division
- `mod(x,y)` The signed remainder left after division (Modulus after division)
- `abs(x)` The absolute value of x
- `sign(x)` The sign of x
- `factor(x)` The prime factors of x

Participants: RR, AB, S, SN, BS, GC, SM, G, SP, BN, BS, GV

### Solving equations with MATLAB

```
>>A=[2 -4 -1 3 -1; 1 1 -2 0 1; -1 -3 0 1 3; 3 -1 -1 4 -1; 1 1 -1 2 0]
>>b=[3; 6; -4; 1; 5]
>>x=A\b
```

x =

-4.3571	A \ b
0.3571	
-6.4286	
1.2857	
-2.8571	

Participants: PP, SN, BS, PE, SP, GR, GV, TB, GV, UV, GV, 3

## 2-D Plotting: Basic plots

`plot(x1, y1, c1, x2, y2, c2, ...)`

x coordinate  
of first dot

y coordinate of  
first dot

Color & marker  
of first dot

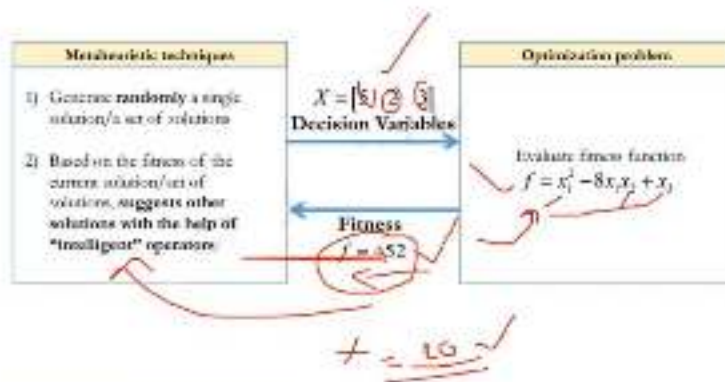
Symbol	Color	Symbol	Marker	Symbol	Line style
b	blue	.	point	-	solid
g	green	o	circle	:	dotted
r	red	x	x-mark	-.	dashdot
c	cyan	+	plus	--	dashed
m	magenta	*	star	(none)	no line
y	yellow	s	square		
k	black	d	diamond		
		v	triangle (down)		
		^	triangle (up)		
		<	triangle (left)		
		>	triangle (right)		
		p	pentagram		
		h	hexagram		

Example :

```
>>plot(X,Y,'r')
>> plot(X,Y,'go')
>> plot(X,Y,'y>')
```



## Metaheuristic techniques and optimization problem





# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

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



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**45**  
years

## Value Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications

29<sup>th</sup>-30<sup>th</sup> September, 05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup> October 2023

### CERTIFICATE

This is to certify that Mr. / Ms. ....of.....  
.....has attended an online Value  
Added Course (VAC) on MATLAB and Machine Learning for Engineering Applications during 29<sup>th</sup>-30<sup>th</sup> September,  
05<sup>th</sup> -06<sup>th</sup> & 12<sup>th</sup> October 2023 at Chaitanya Bharathi Institute of Technology (A), Hyderabad - 500 075, Telangana,

Coordinator

Principal, CBIT

**Registration Form**

Value Added Course (VAC) on  
**'MATLAB and Machine Learning for Engineering Applications'**  
**29<sup>rd</sup>-30<sup>th</sup> September, 05<sup>th</sup>-06<sup>th</sup> & 12<sup>th</sup> October 2023**

Organized by,  
Electrical and Electronics Engineering Department, CBIT (A),

**REGISTRATION FORM**

1. Applicant Name: (In CAPITALS)		
	First	Last
2. Roll Number:		
3. Year, Section:		
4. Department:		
5. Institution:		
6. Contact Address:		
	State:	PIN:
7. Contact Info:		
	Mobile	Phone
		Fax
	Email:	

**Declaration by the Applicant:**

If selected, I agree to abide by the rules and regulations of the workshop/ training programme and shall attend all the sessions.

Date:

Signature of the Applicant

Office Seal

Signature of the Head of the Department/ Institution



Electrical and Electronics Engineering Department  
**Chaitanya Bharathi Institute of Technology (Autonomous),**  
Gandipet, Hyderabad, Telangana-500075.