

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY**  
**Department of Electrical & Electronics Engineering**

Value Added Courses for the Academic Year 2023-24

S.No	Name of the value added courses (with 30 or more contact hours) offered	Course Code	Number of students		Page No
			Enrolled	Completed	
1	Electrical Vehicle Technology (32 Hours)	CBIT/EEE/2324VAC-1	49	49	2-64
2	Superconducting Power Systems (31 Hours)	CBIT/EEE/2324VAC-2	66	66	65-71

*M. J. S.*  
*Head (EEE)*  
— HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, 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)**

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**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

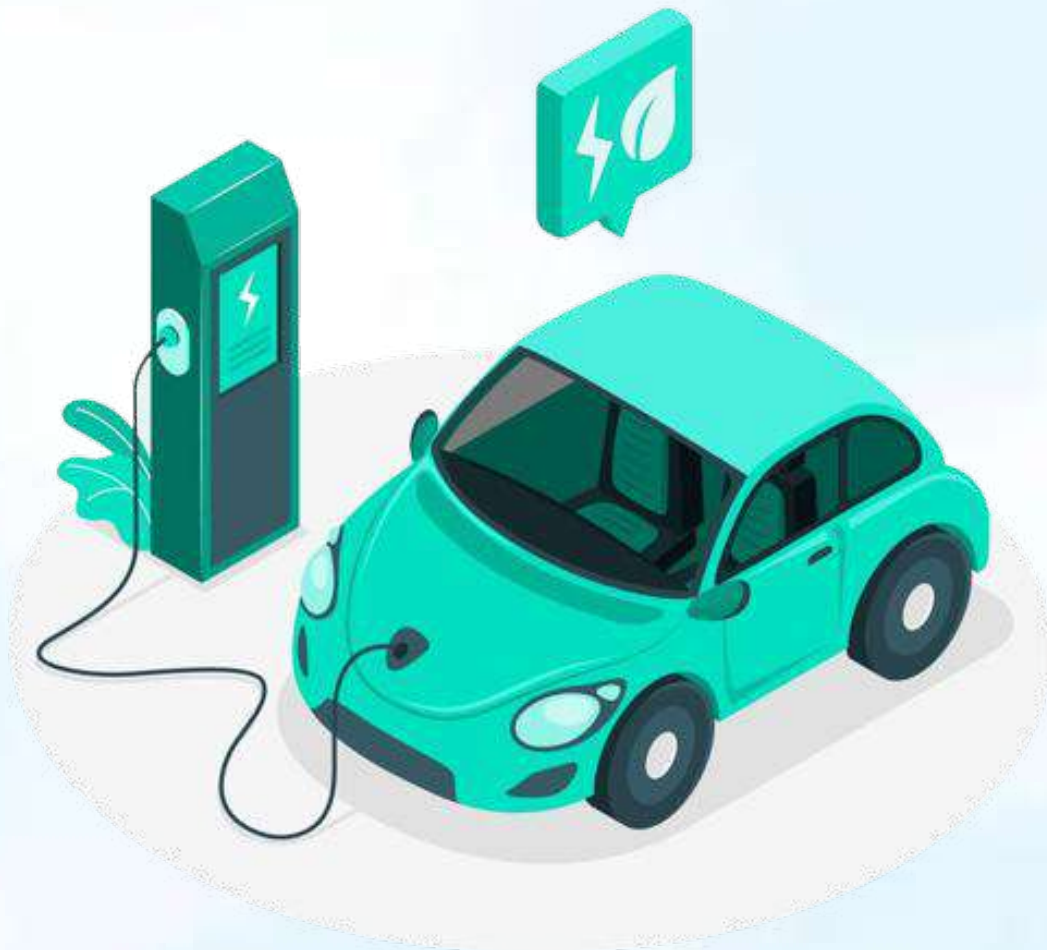
1. Name: .....
2. Branch & Year.....
3. Semester: .....
4. Address: .....  
.....  
.....
5. Mobile No. ....
6. Email ID: .....

Signature of the Participant



**TRAINING SESSION ON**

# **ELECTRIC VEHICLE TECHNOLOGY**



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**Objective &  
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# 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"*



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## 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
24-04-2024 Wednesday	Basics of AC Electric Drives by <b>By Dr. G. Suresh Babu, Prof. Dept. of EEE, CBIT,</b>
25-04-2024 Thursday	Basics of DC Electric Drives by <b>By Dr. K Krishnaveni, Prof. Dept. of EEE, CBIT,</b>
26-04-2024 Friday	Introduction to Electric Vehicle Technology, Types, Drive train & Assignment <b>By Deepesh Kumar, MD. EV Retron Energy India Pvt. Ltd.</b>
27-04-2024 Saturday	Fundamentals of Battery Pack, Considerations & Parts of Battery Pack Manufacturing Process <b>By Neha. Battery Engineer, EV Retron Energy India Pvt. Ltd.</b>
29-04-2024 Monday	Introduction to Energy Storage System, Types, Fundamentals of Battery Energy Storage <b>By Deepesh Kumar MD. EV Retron Energy India Pvt. Ltd.</b>
30-04-2024 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>
01-05-2024 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
02-05-2024 Thursday	EV Emulator & Significance <b>By Deepesh Kumar. EV Retron Energy India Pvt. Ltd.</b>	Break	Hands on EV Emulator by <b>By Deepesh Kumar EV Retron Energy India Pvt. Ltd.</b>	Lunch Break	Hands on EV Emulator <b>By. Sandeep, EV Retron Energy India Pvt. Ltd.</b>
03-05-2024 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 Red	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.Sanathi 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 AMAANL 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	FN	AN
1	JARATHI AKSHAYA	D1	VI	160121734008	A	A	A	A	A	A	A	A	A		
2	Nandyala Akshaya	D1	VI	160121734011	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		
4	S. Yasaswini	D1	VI	160121734016	S	S	S	S	S	A	S	A	S		
5	K V Lalith Kumar Achari	D1	VI	160121734035	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		
7	Adithya goud	D1	VI	160121734058	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy	Adithy		
8	Sindhu vyamsani	D1	VI	160121734303	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu		
9	PITLA KARTHIKEYA	D1	VI	160121734314	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika	Karthika		
10	Aishwarya Bura	D2	VI	160121734074	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya		
11	GOPU SRUTHI	D2	VI	160121734079	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi	Sruthi		
12	Pravalika Kalaveni	D2	VI	160121734083	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		
14	MOTE SINDHU	D2	VI	160121734086	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		
16	Dasari Akhil	D2	VI	160121734099	D.Akhil	D.Akhil	D.Akhil	D.Akhil	D.Akhil	D.Akhil	D.Akhil	D.Akhil	D.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		
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		
19	Solleti Rahul	D2	VI	160121734126	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		
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		
22	Qudsiya	D2	VI	160121734313	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		

**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	Rye	Rya	Rye	Rye	Rye	Ry	Rya	Rya	Rya
25	Krithisha Vuppala	D1	IV	160122734014	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha	Krithisha
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	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha	Supritha
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	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs	ESARs
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 aii khan	D1	IV	160123766009	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
47	MOHAMMAD AMAANUDDIN	D1	IV	160123766010	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
48	MALAY KASAA	D2	VI	160123734074	Malay	Malay	(A)	(A)	Malay	Malay	Malay	Malay	Malay	Malay	Malay
49	Y. Sandeep	D1	VI	160121734062	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep	Sandeep	(A)	Sandeep	Sandeep	Sandeep	Sandeep



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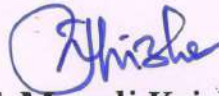
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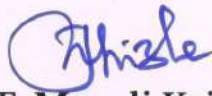
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*C.V.S.*

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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,


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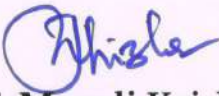
to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240311

  
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Authorized Signatory

  
Dr. B. Suresh Kumar  
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Dr. T. Murali Krishna  
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Roll No.:           160121734083           has Successfully completed a Value Added course on  
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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 :           REV2D240312          

  
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Roll No.: 160121734085 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
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Date : 03-05-2024


Certificate ID : REV2D24D313

  
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Date : 03-05-2024

Certificate ID : REV20240314



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

[Signature]  
Dr. T. Murali Krishna  
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[Signature]  
Prof. M. Balasubba Reddy  
(HOD-EEE)

[Signature]  
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Roll No.: 160121734088 has Successfully completed a Value Added course on  
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Mr./Ms. DASARI AKHIL bearing  
Roll No.: 160121734099 has Successfully completed a Value Added course on  
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Date : 03-05-2024


Certificate ID : REV2D240316



  
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This is to certify that

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Mr./Ms. GUGULOTHU VIJAY 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 : REV2D240317



  
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Dr. T. Murali Krishna  
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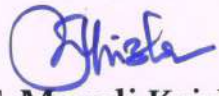
✓  
Mr./Ms. MUPPIDI VAMSI KRISHNA bearing  
Roll No.: 160121734116 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
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Certificate ID : REV2D240318

  
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Mr./Ms. SOLLETI RAHUL bearing  
Roll No.: 160121734126 has Successfully completed a Value Added course on  
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Date : 03-05-2024


Certificate ID : REV2D240319

  
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Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
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# 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



  
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(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
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Prof. C. V. Narasimhulu  
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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

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Authorized Signatory

Dr. B. Suresh Kumar  
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Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
(HOD-EEE)

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This is to certify that


Mr./Ms. ✓ QUDSIYA bearing  
Roll No.: 160121734313 has Successfully completed a Value Added course on  
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Date : 03-05-2024


Certificate ID : REV2D240322

  
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Authorized Signatory

  
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Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
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# 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



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
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# 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 : REV2024.0325



  
Dr. B. Suresh Kumar  
(Co-ordinator)

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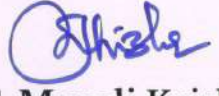
✓  
Mr./Ms. BHEEMA SAI RITHVIK bearing  
Roll No.: 160122734019 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024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


Date : 03-05-2024


Certificate ID : REV20240326



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
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Mr./Ms. R. 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 : REV2D24D327...



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
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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)

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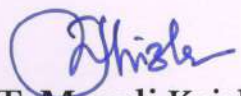
✓  
Mr./Ms. T. SAMITH bearing  
Roll No.: 160122734051 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
to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


Date : 03-05-2024


Certificate ID : REV.20240329



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
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Roll No.: 160122734053 has Successfully completed a Value Added course on  
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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 : REV20240330



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
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Approved by:

Quality Audit: 2021-2018  
Green Audit: 18/01-2013  
Energy Audit: 08/01-2018

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INNOVATION AND  
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# 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  
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Dr. T. Murali Krishna  
(Co-ordinator)

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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,  
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to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240332

  
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Dr. T. Murali Krishna  
(Co-ordinator)

  
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Approved by: Research Centre  
Programs Accredited by:   
Grade A++  
All India Ranking 101-200 Band  
ISO Certification: Quality Audit: 9001 : 2015, Green Audit: 14001 : 2015, Energy Audit: 50001 : 2018

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# 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

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Authorized Signatory

Dr. B. Suresh Kumar  
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Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
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This is to certify that

Mr./Ms.  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  
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# 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  
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This is to certify that

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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 : REVA240336

Authorized Signatory

Dr. B. Suresh Kumar  
(Co-ordinator)

Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
(HOD-EEE)

Prof. C. V. Narasimhulu  
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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

  
**EVRETRON 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  
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EDUCATION

**45**  
years

# Certificate of Completion


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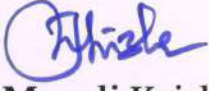
✓  
Mr./Ms. R. CHAITANYA CHARAN bearing  
Roll No.: 160122734109 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024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


Date : 03-05-2024


Certificate ID : REV2D24D34D

  
**EVRETRON ENERGIES**  
Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
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This is to certify that

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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  
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# Certificate of Completion


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✓  
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  
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EDUCATION

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years

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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 : REV20240341



  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
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EDUCATION

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years

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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  
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Roll No.: 160122734115 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
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to 03/05/2024.


Date : 03-05-2024


Certificate ID : REV2D240343

  
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Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
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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 : REV2D240344

**EVRETRON ENERGIES**  
Authorized Signatory

Dr. B. Suresh Kumar  
(Co-ordinator)

Dr. T. Murali Krishna  
(Co-ordinator)

Prof. M. Balasubba Reddy  
(HOD-EEE)

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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.**

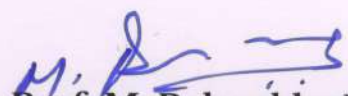
Date : 03-05-2024


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  
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Mr./Ms. KHAJA INSHAAL ALI KHAN bearing  
Roll No.: 160123766009 has Successfully completed a Value Added course on  
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CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024  
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Date : 03-05-2024


Certificate ID : REV20240346

  
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Authorized Signatory

  
Dr. B. Suresh Kumar  
(Co-ordinator)

  
Dr. T. Murali Krishna  
(Co-ordinator)

  
Prof. M. Balasubba Reddy  
(HOD-EEE)

  
Prof. C. V. Narasimhulu  
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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

  
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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



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INSTITUTE OF TECHNOLOGY**  
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EDUCATION

**45**  
years

# Certificate of Completion


This is to certify that

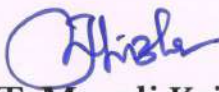
✓  
Mr./Ms. MALAY KASHA bearing  
Roll No.: 160120734094 has Successfully completed a Value Added course on  
Electric Vehicle Technology organized by Department of Electrical and Electronics Engineering,  
CBIT (A), in association with EV Retron Energies India Pvt. Ltd. conducted during 24/04/2024 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



Scheme for Promotion of Academic and Research Collaboration

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.cbit.ac.in](http://www.cbit.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 Practice, enabled the Institute to establish its Identity in Technical Education and is ranked as one of the best amongst Private Engineering Colleges in both the Telugu Speaking States.

### About Department

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

### About 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-FSU 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

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Coordinator  
Mobile: +91-9885308964  
Email Id: [balasubbareddy\\_eee@cbit.ac.in](mailto:balasubbareddy_eee@cbit.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  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



Indo-US International  
A Short term training Course (Value added Course)  
On

Superconducting Power Systems

26th February to 08th March 2024

ATTENDANCE SHEET

S.NO	ROLL NO	NAME OF THE STUDENT	26-02-2024	27-02-2024	28-02-2024	29-02-2024	01-03-2024	02-03-2024	04-03-2024	05-03-2024	06-03-2024	07-03-2024	08-03-2024
1	1601-21-734-001	ANVESARAPU CANDULEM SWARUNA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	1601-21-734-002	BANDARI HARINIKA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	1601-21-734-005	GADDAM SAHITHI REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	1601-21-734-006	GAJWAD RASHMITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	1601-21-734-008	JARATHI KASHAYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	1601-21-734-009	KATHA SURROJA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	1601-21-734-010	NAMASANI KRISHAYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	1601-21-734-012	NENAVATHI KAVYA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	1601-21-734-014	PULLURI ARCHITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	1601-21-734-015	S KIRITHI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	1601-21-734-017	SUPRAJ CHINADARI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	1601-21-734-019	TANVI DINESH KAMATH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13	1601-21-734-021	BAIRI ANIL KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	1601-21-734-023	BANDARI SUSHWANTH KUNJAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	1601-21-734-025	DARI VICTOR SAMUEL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16	1601-21-734-028	DUGGI RITVIK	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17	1601-21-734-027	ENUGULA ABHIRAM SIDDH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18	1601-21-734-028	GANNADI CHAKRAVARTHY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
19	1601-21-734-030	GOPU KOTI REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
20	1601-21-734-031	GANORATHI VIGNANESHWAR GOUD	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
21	1601-21-734-034	K SAI ARJUN	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
22	1601-21-734-015	K V LALITH KUNJAR ACHARI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
23	1601-21-734-017	KATTA PRADEEP	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
24	1601-21-734-040	MADHOLA RAHUL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
25	1601-21-734-049	NALLALA RAHUL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
26	1601-21-734-051	P VINAY KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
27	1601-21-734-053	PELLI BHARATH VISHAI YADAV	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

S.NO	ROLL NO	NAME OF THE STUDENT	26-02-2024	27-02-2024	28-02-2024	29-02-2024	01-03-2024	02-03-2024	04-03-2024	05-03-2024	06-03-2024	07-03-2024	08-03-2024
28	1601-21-734-056	RACHURI NITHIN KUNJAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
29	1601-21-734-057	SHALUBA SHARMA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
30	1601-21-734-059	SIMHARAJU SATHVIK	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
31	1601-21-734-062	VEDAPALLI SANDEEP	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
32	1601-21-734-101	ATURI KANUSH REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
33	1601-21-734-103	HYAMANI SINDHU	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
34	1601-21-734-106	SHAIK SIKHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
35	1601-21-734-072	BANTUPYANI LALITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
36	1601-21-734-074	BURRARI KISHOR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
37	1601-21-734-075	DASARI KESHAVA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
38	1601-21-734-078	GOLI SUSHMA SRI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
39	1601-21-734-081	JANAPALA VARSHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
40	1601-21-734-082	JARPLA JESMITHA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
41	1601-21-734-086	KOTI SINDHU	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
42	1601-21-734-089	SARANANANDA JESICA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
43	1601-21-734-092	ALLAMPUR MANDEEP KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
44	1601-21-734-095	AZMEERA SHIVA RAM PRAKASH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
45	1601-21-734-096	BHURVA JAYARAMA CHANDRA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
46	1601-21-734-103	DUNDIGALLA SAI AMRUTH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
47	1601-21-734-105	JUGGALOTHU PRADEEP	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
48	1601-21-734-108	KONMA GANESH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
49	1601-21-734-109	KONDA DHRISHITH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
50	1601-21-734-111	KURELLA NAVEEN KUMAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
51	1601-21-734-113	MAYA ADITHYAN	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
52	1601-21-734-114	MOHAMMAD ALMAS	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
53	1601-21-734-117	NAGAMPETA NEERAJ	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
54	1601-21-734-119	NITISH LANKAPALLI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
55	1601-21-734-120	PRANAV SREERAJ CH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
56	1601-21-734-122	PRAVEEN SAINI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
57	1601-21-734-125	SARASAM RAJA REDDY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
58	1601-21-734-126	SOLLETTI RAHUL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
59	1601-21-734-130	UDUGULA VINAY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
60	1601-21-734-132	V SAI MITHULESH	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
61	1601-21-734-133	VASAMETTI SAI MANKANTA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
62	1601-21-734-307	VUTURU KARTHIK	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
63	1601-21-734-309	ERKATI MANGU	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
64	1601-21-734-310	KATTARA SIDDHARSHA (PUSHNAVI)	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
65	1601-21-734-312	KOLA AVINAY	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
66	1601-21-734-313	GUDDA	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

*[Signature]*  
SIGNATURE OF THE COORDINATOR

*[Signature]*  
SIGNATURE OF THE HOD (EEE)  
HEAD  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad-75





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**45**  
years

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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.