

ABOUT VEMU IT

VEMU Institute of Technology is one of the best and finest engineering colleges in Chittoor District, Andhra Pradesh. Beginning its quality inputs in 2008, it has attained ISO 2015:9001 certification for quality management within a short span of time. The institution's progress and contribution to the field of technical education for over one decade and accredited by NAAC in the year 2017, Recognized under 2(f) and 12(B) UGC Act, Affiliation with JNTUA (Anantapuramu). It is located in P.Kothakota, near to Tirupati on the Chittoor Highway in a beautiful 16-acre campus. A diverse, talented community united by a passion for learning and quest for more, VEMUIT challenges its students to make a difference on its campus, in the region, and in the companies where ever they join. With unmatched results in every sphere of education, its commitment to be the best has grown to transform its departments into Centers of Excellence.

COURSES:

- ❖ Five undergraduate courses in Engineering
 - ✓ B.Tech in CIVIL/EEE/ME/ECE/CSE
- ❖ Five Postgraduate courses in Engineering
 - ✓ M.Tech in CSE/ES/VLSI/PEED/MD
- ❖ One Postgraduate course in Management
 - ✓ MBA
- ❖ Four Diploma courses
 - ✓ DCE/DSEE/DME/DECE

INDUSTRY SUPPORTED LABS:

With the support of the industry, VEMU Institute of Technology established the following laboratories in the college for the benefit of students to get trained in the emerging technologies.

- ❖ Dassault's 3D Experience Centre
- ❖ AP CM's Skill Excellence Center
- ❖ YMTS Innovation Centre
- ❖ Pavan Empower Solutions Lab
- ❖ Industrial IoT Lab
- ❖ Transformer Testing and manufacturing Lab
- ❖ Cloud Computing and Cyber Security

Features:

MOUs with industries for internship, Training and projects viz. UI Path, RAVANDS, SNAM Alloys, CODE TANTRA, Young Minds Technology solutions, SR Unique solutions, Sigma Controls etc.

MHRD – Institution's Innovation Council (IIC) has been established and actively functioning Certification courses by foreign universities

Other features:

- ❖ Promotion of industry-institution interaction exchange programs.
- ❖ Regular seminars, workshops and guest lectures by eminent Professors from Universities and Industry
- ❖ Training for Placements right from 1st year
- ❖ Special focus on Communication skills, analytical skills and technical skills
- ❖ Entrepreneurship Development Cell to make the students entrepreneurs
- ❖ R & D cell to inculcate the quest of research in students
- ❖ In-Plant Training and Internship Arrangement for students

ABOUT DEPARTMENT

The Electrical & Electronics Engineering Department was established in the year 2008 at VEMU Institute of Technology with an intake of 60. The Department also offers M.Tech Program with specialization in Power Electronics and Electrical Drives (PEED) & it was started in 2014 with an intake of 24. The Department houses qualified and well-experienced faculty and Non-teaching staff members. The department is striving hard towards academic excellence and stand out among Chittoor. B.Tech colleges by having strong industry collaborations to make the students industry-ready. The department also encourages the students to participate in various technical symposia, workshops, internships, and industrial visits. The laboratories are well equipped and that comprise Electrical Circuits, Electrical Machines, Power Systems, Power Converters and Drives, Electric Power Simulation, Control Systems and Measurements Laboratories.

One Week Hybrid Mode FDP on "Research Challenges, Opportunities in Renewable Energy Sources in the Development of Electrical Vehicles (RCORESDEV-2022)"

07th September 2022 to 13th September 2022



CONVENER
Dr. A. HEMASEKHAR
PROFESSOR & HOD



ORGANIZED BY
DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING
VEMU INSTITUTE OF
TECHNOLOGY

Accredited By NAAC, Affiliation to
JNTUA, Anantapuramu. Near Pakala,
P.Kothakota, Chittoor-517112

PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

REGISTRATION FORM

One Week Hybrid Mode FDP on
"Research Challenges, Opportunities in
Renewable Energy Sources in the
Development of Electrical Vehicles
(RCORESDEV-2022)"

07th September 2022 to 13th September 2022

Name :
Designation :
Name of the Institution :
/Organization :
Address for Communication :
Phone No :
Email ID :
Accommodation Required :
Category :
Faculty from Polytechnic / Engg College:

Date: Signature of the applicant

BONAFIDE CERTIFICATE

Mr./Ms./Dr.of
the.....
is permitted to attend the FDP organized by
Department of EEE, Vemu Institute of
Technology, P.Kothakota from 07th September
2022 to 13th September 2022.

Date: Signature of the Head of the
Department/ Institution with Seal

CHIEF PATRON:

Prof. K Chandra Sekhar Naidu, Chairman

PATRON:

Dr. Naveen Kilari, M.Tech., Ph.D. Principal

CONVENER:

1. Dr. A. HEMA SEKHAR, M.Tech., Ph.D.
Professor & HOD

CO-ORDINATORS:

1. Mr.S.Venkatarao, Assistant Professor
2. Mr. M.MURALI, Associate Professor

ORGANIZING COMMITTEE:

Mrs.N.Devasena, Asst. Prof
Mrs. A.Haritha, Asst. Prof
Mrs. B.Gamya, Asst. Prof
Mr.Y.Babu Yadav, Asst. Prof
Mr. D. Chinna Dastagiri, Asst. Prof
Mr. B.Anil Kumar, Asst. Prof
Mr. G.Mallikarjuna, Asst. Prof
Mr. S. Venkata Rao, Asst. Prof
Ms. D. Janani, Asst. Prof
Mr. L. Suresh, Asst. Prof
Mrs. M. Tejeswini, Asst. Prof
Mr. K. Hemadri, Asst. Prof
Mr. A. Vinayakam, Asst. Prof

RESOURCE PERSONS

Mr.K.Madan Mohan Goud, Technical
Trainer, HIEE, Hyderabad
Mr.Arjun, Bhavya, Technical Trainer, HIEE,
Hyderabad
Dr.S.Mallikarjunaiah Professor / EEE,
VEMUI IT
FOR WHOM

The main aim of this FDP is to provide
exposure to Faculty from academic institutes,
Researchers, engineers and officers of power
companies / corporations.

No Registration Fee

IMPORTANT DATES

Last date for receipt
of application : 01.09.2022
Intimation of Selection : 05.09.2022

CONTACT DETAILS

Dr.A.HEMA SEKHAR
PROFESSOR / EEE
Ph.No : 9000002358
Mr.S.VENKATARAO,
Assistant PROFESSOR / EEE
Ph.No : 9959545736

Principal
VEMU INSTITUTE OF TECHNOLOGY
KOTHAKOTA - 517 112



VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

Chittoor-Tirupathi National Highway, P.Kothakota, Near Pakala, Chittoor (Dt.), AP - 517112

(Approved by AICTE, New Delhi, Recognized Under 2(f) & 12(B) of UGC Act.

Accredited by NAAC, & An ISO 9001:2015 Certified Institute)

Department of Electrical and Electronics Engineering

VEMU/EEE/2021-22

Date : 05-09-2022

CIRCULAR

It is here by informed to all the staff members that there is a **ONE WEEK FACULTY DEVELOPMENT PROGRAM (FDP)** On “**Research Challenges, Opportunities in Renewable Energy Sources in the Development of Electrical Vehicles (RCORESDEV-2022)**” during **7th September 2022 to 13th September 2022**. Hence all the staff members are asked to attend the FDP without fail.

Venue / Platform : Simulation Lab / Zoom Meeting

Copy to :

1. The Principal,
2. The In-charge of FDP,
3. Circulating among staff,
4. Display in Notice boards.

Me
PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

A. H. S.
HOD / EEE
HOD
Electrical & Electronics Engg.
Vemu Institute of Technology
P. Kothakota

N. Devasena
H. Karithe

B. Gamyra

D. Janani

Thammam
Samyukta

Babu

Sush

M. S. S.

Anubhava
M. S.



VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

Chittoor-Tirupati National Highway, P.Kothakota, Near Pakala, Chittoor (Dt.), AP - 517112

(Approved by AICTE New Delhi, Affiliated to JNTUA, Ananthapuramu,

Accredited by NAAC, NBA (EEE, ECE & CSE)

Recognized Under 2(f) & 12(B) of UGC Act, An ISO 9001:2015 Certified Institute)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ONE WEEK FACULTY DEVELOPMENT PROGRAM (FDP)

On

“Research Challenges, Opportunities in Renewable Energy Sources in the Development of Electrical Vehicles (RCORESDEV-2022)”

7th September 2022 to 13th September 2022

PROGRAM SCHEDULE

S. NO.	DATE & TIME	TOPIC NAME	RESOURCE PERSON	VENUE / ZOOM ID & PASSWORD
1	07-09-2022 (10:00 AM to 11:30 AM)	Evolution & Concept about EV technology	Mr.Arjun, Technical Trainer, HIEE, Hyderabad	Simulation Lab
2	08-09-2022 (10:00 AM to 11:30 AM)	Power Converters for EV	Dr.S.Mallikarjunaiah Professor / EEE, VEMIU IT	Simulation Lab
3	09-09-2022 (06:30 PM to 08:00 PM)	Types of Batteries & their research activities for EV	Bhavya, Technical Trainer, HIEE, Hyderabad	Meeting ID: 832 8368 1536 Passcode: HIEE
4	10-09-2022 (07:00 PM to 08:30 PM)	EV charging methods and charging stations	Bhavya, Technical Trainer, HIEE, Hyderabad	Meeting ID: 832 8368 1536 Passcode: HIEE
5	12-09-2022 (11:00 AM to 12:30 PM)	EV Motors and their Performance	Mr.K.Madan Mohan Goud, CEO, HIEE, Hyderabad	Simulation Lab
6	13-09-2022 (09:30 AM to 11:00 AM)	Regenerative braking methods for EV	Mr.K.Madan Mohan Goud, CEO, HIEE, Hyderabad	Simulation Lab


CO-ORDINATOR


PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112


HOD / EEE

HOD
Electrical & Electronics Engg.
Vemu Institute of Technology
P. Kothakota



ATTENDANCE SHEET

ONE WEEK FACULTY DEVELOPMENT PROGRAM (FDP)

On

“Research Challenges, Opportunities in Renewable Energy Sources in the
Development of Electrical Vehicles (RCORESDEV-2022)”

7th September 2022 to 13th September 2022

	Participants Name	07/09/22		08/09/22		09/09/22		10/09/22		12/09/22		13/09/22	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Dr. D.Chandrasekhar	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>
2	Dr.A.Hema Sekhar	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>
3	Dr.S. Mallikarjunaiah	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>	<i>S.M.</i>
4	Mr.M.Murali	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>	<i>M.</i>
5	Mrs.N.Devasena	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>	<i>N.D.</i>
6	Mrs. A.Haritha	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>	<i>A.H.</i>
7	Mrs. B.Gamya	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>	<i>B.G.</i>
8	Mr.Y.Babu Yadav	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>	<i>B.</i>
9	Mr. D. Chinna Dastagiri	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>	<i>D.</i>

PRINCIPAL

VEMU INSTITUTE OF TECHNOLOG.

P. KOTHAKOTA - 517 112



VEMU INSTITUTE OF TECHNOLOGY: P. KOTHAKOTA

NEAR PAKALA, CHITTOOR-517112

Department of Electrical and Electronics Engineering

10	Mr. B. Anil Kumar	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>	<i>AK</i>
11	Mr. G. Mallikarjuna	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>	<i>G.Mallikarjuna</i>
12	Mr. S. Venkata Rao	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>	<i>S.V.R.</i>
13	Ms. D. Janani	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>	<i>D.Janani</i>
14	Mr. L. Suresh	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>	<i>L.Suresh</i>
15	Mrs. M. Tejeswini	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>	<i>M.T.</i>
16	Mr. K. Hemadri	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>	<i>K.Hemadri</i>
17	Mr. A. Vinayakam	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>	<i>A.Vinayakam</i>
18	Mr. PIDT Baladurairkannan	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>	<i>PIDT</i>
19	Mr. Guru Prasad	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>	<i>G.Prasad</i>

S. J. Kumar
CO-ORDINATOR

me
PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

A. J. Kumar
HOD / EEE

HOD
Electrical & Electronics Engg.
Vemu Institute of Technology
P. Kothakota



VEMU INSTITUTE OF TECHNOLOGY


NEAR PAKALA, CHITTOOR-517112

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)

PARTICIPATION CERTIFICATE

This is to certify that Dr/Mr/Ms Y. Babu Yadav
working as Assistant Professor of EEE department has actively
participated in One Week Hybrid mode FDP on “**Research Challenges,
Opportunities in Renewable Energy Sources in the Development of
Electrical Vehicles (RCORESDEV-2022)**” during **07/09/2022 to 13/09/2022**
organized by Department of EEE, VEMU IT.


Mr.S.Venkatrao
Co-Ordinator


Dr.A.Hemasekhar
HOD-EEE


Dr. Naveen Kilari
Principal
PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

VEMU INSTITUTE OF TECHNOLOGY




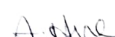
NEAR PAKALA, CHITTOOR-517112

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)


PARTICIPATION CERTIFICATE

This is to certify that ~~Dr~~/Mr/Ms working as B.Anil kumar
of EEE department has actively participated in Three Days Faculty
Development Program on “APPLICATION OF MACHINE LEARNING IN THE
FIELD OF ELECTRICAL ENGINEERING” during 14/02/2022 & 16/02/2022
organized by Department of EEE, VEMU IT.


Mr. M. Murali
Co-Ordinator


Dr. A. Hemasekhar
HOD-EEE


Dr. Naveen Kilari
Principal


PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112





VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

Chittoor-Tirupathi National Highway, P Kothakota, Near Pakala, Chittoor (Dt.), AP - 517112
(Approved by AICTE, New Delhi, Recognized Under 2(f) & 12(B) of UGC Act. Accredited by NAAC,
NBA (EEE, ECE & CSE) & An ISO 9001:2015 Certified Institute)
Department of Electrical and Electronics Engineering

REPORT

Event Type	Hybrid (Offline & Online) FDP
Title of the Event	"Research Challenges, Opportunities in Renewable Energy Sources in the Development of Electrical Vehicles (RCORESDEV-2022)"
Dates	07/09/2022 & 13/09/2022
Keynote speaker	Mr.K.Madan Mohan Goud, Mr.Arjun, Bhavya, Technical Trainer, HIEE, Hyderabad & Dr.S.Mallikarjunaiah Professor / EEE, VEMIU IT
Faculty Coordinator	Mr.S.Venkatarao
Venue	Simulation Lab
Benefited Persons	Academic persons from EEE Department
Description about the Event	<p>The role of a conducting faculty development program is to maximize the ability of faculty to teach and students to learn and to nurture a productive culture. On 07/09/2022 (09:30 – 10:00 AM) Inauguration function took place. In Day – 1, Mr.Arjun handled topic about Evolution & Concept about EV technology. An electric vehicle (EV) is one that operates on an electric motor, instead of an internal-combustion engine that generates power by burning a mix of fuel and gases. In Day -2, Dr.S.Mallikarjunaiah talked about Power Converters for EV and he talked that DC- DC converter is a critical component in the architecture of a BEV, where it is used to convert power from the high voltage (HV) bus to the 12V Low Voltage (LV) bus to charge the LV battery and power the onboard electric devices. In Day -3, Miss.Bhavya taken topic about Types of Batteries & their research activities for EV. The most common battery type in modern electric vehicles are lithium-ion and lithium polymer, because of their high energy density compared to their weight. In Day – 4, Miss.Bhavya taken topic about EV charging methods and charging stations. There are three categories or types of charging: Trickle Charge, AC Charge and DC Charge. The slowest method of charging your EV at home, using a standard (three-prong) 220V plug. It is only recommended in urgent cases, with caution and consultation with electricity providers. In Day – 5, Mr.K.Madan Mohan Goud talked about EV Motors and their Performance. Koenigsegg's Tiny Electric Motor Makes 335 HP and 443 LB-FT of Torque. Dubbed the Quark, the motor weighs just 63 pounds. Swedish hypercar maker Koenigsegg has long been a home for novel engineering, and that's evident in its new electric motor. In Day – 6, Mr.K.Madan Mohan Goud talked about Regenerative braking methods for EV. Regenerative braking is a unique technique that is used in EVs to capture energy that the vehicle has due to its motion or, in other words, its kinetic energy that would have been wasted when the vehicle decelerates or comes to a standstill while braking.</p>

PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

Chittoor-Tirupathi National Highway, P.Kothakota, Near Pakala, Chittoor (Dt), AP - 517112
(Approved by AICTE, New Delhi, Recognized Under 2(f) & 12(B) of UGC Act. Accredited by NAAC,
NBA (EEE, ECE & CSE) & An ISO 9001:2015 Certified Institute)

Department of Electrical and Electronics Engineering

Photos



me
PRINCIPAL
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

AASeee
HOD / EEE

HEAD
DEPARTMENT OF EEE
VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112