

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, Permanent 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 & CSE AI
- ❖ Five Postgraduate courses in Engineering
 - ✓ M.Tech in CSE/ES/VLSI/PEED/MD
- ❖ One Postgraduate course in Management
 - ✓ MBA
- ❖ Four Diploma courses
 - ✓ DCE/DEEE/DME/DECE

INDUSTRY SPONSORED 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 Labs
- ✓ e-Yantra Robotics Lab

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

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 Dept. of EEE (UG) is accredited by NBA for three years. 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 Systems, Control Systems, and Measurements Laboratories.

ONE WEEK VIRTUAL FACULTY DEVELOPMENT PROGRAM(FDP)

ON

**"Research Challenges,
Opportunities in Smart Grid with
Integration of Electrical Vehicles"
(RCOSGIEV-2021)**



CONVENER

Dr. A. HEMA SEKSHAR

Professor & HOD



ORGANIZED BY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

VEMU INSTITUTE OF TECHNOLOGY

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

Approved by AICTE New Delhi, Affiliated to

JNTUA, Anantapuramu.

Near Pakala, P.Kothakota, Chittoor-517112, A.P

CHIEF PATRON:

Prof. K Chandra Sekhar Naidu,
Chairman

PATRON:

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

VICE PRINCIPAL:

Dr.D. Chandra Sekhar, M.Tech., Ph.D.
PROFESSOR

DEANS:

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

CO-ORDINATORS:

- M. Murali, M.Tech.**
Associate Professor
- D. Chinna Dastagiri, M.Tech.**
Assistant Professor

ORGANIZING COMMITTEE:

Mrs.A.Haritha, M.Tech, Assoc. Prof.
Mrs.N.Devasena, M.Tech, Assoc. Prof.
Mr.Babu Yadav, M.Tech, Assoc. Prof.
Mrs.K.Bhavani, Assoc. Prof.
Mr.B.V.Arun Kumar, M.Tech.,(Ph.D), Asst. Prof.
Mr.G.Mallikarjuna, M.Tech, Asst.Prof
Mr.B.Anil Kumar, M.Tech, Asst.Prof
Ms.D.Janani, M.Tech, Asst. Prof
Mr.K.Hemadri M.Tech, Asst. Prof
Mr.L.Suresh, M.Tech, Asst. Prof
Mrs.M.Tejaswini M.Tech, Asst. Prof
Mr.A. Vinayakam M.Tech, Asst. Prof

OBJECTIVE

The proposed Faculty Development Programme provides a proper platform to participate for discussion and presentation of the "Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles"(RCOSGIEV-2021). It is a quality course providing forum for academic professionals to exchange their knowledge and state of art of afore said areas. The course content will be taught by eminent experts (IITs, NITs and Reputed Universities) in the field, having adequate teaching experience. This course will offer a unique opportunity to the researchers, and academicians working in this area to acquire knowledge in current and relevant topics in Electrical Engineering. This FDP provides deeper insight and knowledge to the participants about the Smart Grid and Electrical Vehicles in Electrical Engineering field.

TOPICS TO BE COVERED

- > Demand side response Management
- > Phasor Measurement Unit applications to Smart Grid
- > Battery and Supercapacitor based hybrid energy storage system for electric vehicle application
- > Model based SOC estimation Techniques for EV
- > Power electronics EV power train

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KOTHAKOTA - 517 112

RESOURCE PERSONS

Dr. Vivekananda Mukherjee, IIT Dhanbad
Dr.M.Jai Bharat Reddy, NIT Trichy
Dr. N.K. Swamy Naidu, IIT BHU, Varanasi
Dr. K. Narasimha Raju, Prof. KL University
Dr.Jammy Ramesh Rahul, NIT Tadepallegudem

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

The last date of Registration on or before 07-10-2021.

Date of Event: 8th Oct 2021 to 12th Oct 2021

No Registration Fee

<https://forms.gle/UJZN4pQzgV6v5rsp8>

E-Certificate will be provided to all the participants by providing their valuable feed back after completion of the session.

ZOOM APP/ Google Meet

Dr.A.HEMA SEKSHAR
PROFESSOR & HOD
Ph.No : 900002358
Mr.M.Murali
ASSOCIATE PROFESSOR
Ph.No : 7993190363



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Department of Electrical and Electronics Engineering

VEMU/EEE/2020-21

Date : 06-10-2021

CIRCULAR

It is here by informed to all the staff members that there is a five days FDP on "RESEARCH CHALLENGES, OPPORTUNITIES IN SMART GRID WITH INTEGRATION OF ELECTRICAL VEHICLES" from 08-10-2021 to 12-10-2021. Hence all the staff members are asked to attend the FDP without fail.

Platform : Zoom Meeting

Copy to :

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

Signature

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A. A. Sule
HOD / EEE
HEAD
DEPARTMENT OF EEE
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ONE WEEK VIRTUAL FACULTY DEVELOPMENT PROGRAM (FDP)

On

“Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles”
(RCOSGIEV-2021)

8th October 2021 to 12th October 2021

PROGRAM SCHEDULE

S. NO.	DATE & TIME	TOPIC NAME	RESOURCE PERSON	ZOOM ID & PASSWORD
1	08-10-2021 (03:00 PM to 04:30 PM)	Demand side response Management	Dr.Vivekananda MukherjeeGaru, Associate Professor, IIT Dhanbad	Meeting ID: 731 848 1423 Passcode: 123456
2	09-10-2021 (01:00 PM to 02:30 PM)	Phasor Measurement Unit applications to Smart Grid	Dr.M.Jai Bharat Reddy Garu, Professor, NIT Trichy	Meeting ID: 731 848 1423 Passcode: 123456
3	10-10-2021 (03:00 PM to 04:30 PM)	Battery and Supercapacitor based hybrid energy storage system for electric vehicle application	Dr.N.K. Swamy Naidu Garu, Asst.Professor , IIT BHU,Varanasi	Meeting ID: 731 848 1423 Passcode: 123456
4	11-10-2021 (06:30 PM to 08:00 PM)	Model based SOC estimation Techniques for EV	Dr.K. NarasimhaRajuGaru, Professor, K.L University	Meeting ID: 731 848 1423 Passcode: 123456
5	12-10-2021 (02:00 PM to 03:30 PM)	Introduction to EV power train	Dr.Jammy Ramesh Rahul Garu, Assistant Professor, NIT Tadepalligudem	Meeting ID: 731 848 1423 Passcode: 123456

CO-ORDINATOR

HOD / EEE

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Department of Electrical and Electronics Engineering

ATTENDANCE SHEET

Five days FDP on “RESEARCH CHALLENGES, OPPORTUNITIES IN SMART GRID
WITH INTEGRATION OF ELECTRICAL VEHICLES”
08-10-2021 to 12-10-2021

S.No	Participants Name	08/10/2021		09/10/2021		10/10/2021		11/10/2021		12/10/2021	
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	Dr. D.Chandrasekhar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	Dr.A.Hema Sekhar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	Dr.E.Kiran Kumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Mr.M.Murali	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Mrs.N.Devasena	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	Mrs. A.Haritha	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	Mrs. B.Gamya	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	Mr.P.Chaitanya Teja	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	Mr. Y.Babu Yadav	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	Mr. Chinna .Dastagiri	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	Mr. B.Anil Kumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	Mr. G.Mallikarjuna	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

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Department of Electrical and Electronics Engineering

13	Mr. A. Vinayakam	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	Ms. D. Janani	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	Mr. K. Hemadri	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present


CO-ORDINATOR


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Participation Certificate

ID No : 0FQ7OY-CE000082

This is to certify that *M Murali*, Associate Professor of Vemu Institute of Technology has actively participated in One Week Virtual Faculty Development Program (FDP) on "Research Challenges; Opportunities in Smart Grid with Integration of Electrical Vehicles" (RCOSGIEV-2021)" During 08-10-2021 to 12-10-2021, Organized by the Department of Electrical & Electronics Engineering, VEMU Institute of Technology, P.Kothakota, Chittoor(Dt), A.P.

M Murali
Mr.M.Murali
Coordinator

A Hema Sekhar
Dr. A.Hema Sekhar
Convener & HOD-EEE

Naveen Kilari
Dr. Naveen Kilari
Principal

K Chandra Sekhar Naidu
Dr. K.Chandra Sekhar Naidu
Chairman

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A Hema Sekhar
HEAD
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Department of Electrical and Electronics Engineering

ONE WEEK VIRTUAL FACULTY DEVELOPMENT PROGRAM (FDP)

ON

“Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles” (RCOSGIEV-2021)

8th October 2021 to 12th October 2021

Title : Research Challenges, Opportunities in Smart Grid with Integration of Electrical Vehicles” (RCOSGIEV-2021)

Date(s) : 8th October 2021 to 12th October 2021

Resource Persons : Dr.Vivekananda MukherjeeGaru, Dr.M.Jai Bharat Reddy Garu, Dr.N.K. Swamy Naidu Garu, Dr.K. Narasimha Raju Garu, Dr.Jammy Ramesh Rahul Garu

Targeted Group : Faculty from academic institutes, Researchers, engineers and officers of power companies / corporations

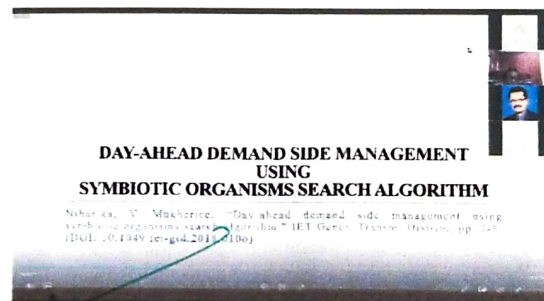
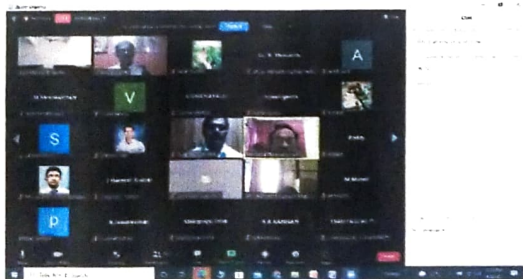
Objective:-

The main objective of this FDP is to promote the professional practices relevant to technical education and also motivates the faculty to achieve competitive teaching and learning environment.

- In Day – 1 Dr.Vivekananda MukherjeeGaru talked about information about management regarding demand side. Demand-side Management refers to initiatives and technologies that encourage consumers to optimize their energy use. The benefits from DSM are potentially two-fold; first, consumers can reduce their electricity bills by adjusting the timing and amount of electricity use.
- In Day – 2 Dr.M.Jai Bharat Reddy Garu talked about applications about phasor management Unit in Smart Grid.
- In Day – 3 Dr.N.K. Swamy Naidu Garu talked about applications of energy storage system in Electric Vehicle.
- In Day – 4 Dr.K. Narasimha Raju Garu talked about state of charge estimating techniques in Electric Vehicle.
- In Day – 5 Dr.Jammy Ramesh Rahul Garu talked about information about Electric Vehicle about Power Train

OUTCOME:-

- ❖ Case study related to demand side response management
- ❖ Applications of PMU in smart grid
- ❖ Necessities and performance of batteries in EV
- ❖ SOC estimation techniques and
- ❖ Electric Vehicle Power Train.



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