



VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

One Week Virtual
FACULTY DEVELOPMENT PROGRAM (FDP)
ON
“Recent Advances in Electrical Engineering”
(RAEE – 2020)

Date(s): 03-06-2020 to 07-06-2020

Mode of Program: Virtual (Online)

Organized by

Department of EEE
VEMU Institute of Technology
P.Kothakota, Chittoor District.



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Department of Electrical and Electronics Engineering

VEMU/EEE/2020-21

Date : 01-06-2020

CIRCULAR

It is here by informed to all the staff members that there is a five online FDP on “Recent Advances in Electrical Engineering (RAEE-2020)” from 03-06-2020 to 07-06-2020. 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.


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

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/CE
- ❖ 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 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 Labs
- ✓ e-Yantra Robotics Lab

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 NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM(FDP)

ON

"RECENT ADVANCES IN ELECTRICAL ENGINEERING" (RAEE-2020)

3rd June 2020 to 7th June 2020



CONVENER

Dr. D. CHANDRA SEK HAR

PROFESSOR & HOD



ORGANIZED BY
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

VEMU INSTITUTE OF TECHNOLOGY

Accredited By NAAC, Permanent Affiliation to
JNTUA, Anantapuramu.

Near Pakala, P.Kothakota, Chittoor-517112

CHIEF PATRON:

Prof. K Chandra Sekhar Naidu,
Chairman

PATRON:

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

CONVENER:

Dr.D. Chandra Sekhar, M.Tech., Ph.D.
Prof & HOD. **EEE Dept.**

CO-ORDINATORS:

1. **Dr. A. HEMA SEKHAR,** M.Tech., Ph.D.
Professor
2. **Dr. E. KIRAN KUMAR,** M.Tech., Ph.D.
Professor

ORGANIZING COMMITTEE:

- Mr.P. Krishna Reddy, M.Tech.,(Ph.D), Assoc. Prof
Mr. M.Murali, M.Tech., Assoc. Professor
Mr.Y.Nagarjuna Reddy, M.Tech. Assoc. Professor
Mr.P.Chaitanya Teja, M.Tech, Asst. Prof.
Mrs.A.Haritha, M.Tech, Asst. Prof.
Ms.V. Geetha, M.Tech, Asst. Prof
Mrs.N.Devasena,M.Tech, Asst. Prof.
Mrs.K.Sruthi, M.Tech, Asst. Prof
Mr.Babu Yadav,M.Tech, Asst. Prof.
Mr.B.V.Arun Kumar, M.Tech.,(Ph.D), Asst. Prof.
Mr.Dilli Prasad, M.Tech, Asst. Prof
Mr.Dastagiri, M.Tech., Asst. Prof.

ABOUT FDP

The proposed Faculty Development Programme provides a proper platform to participate for discussion and presentation of the Recent Advances and discoveries in the field of Electrical Engineering.(RAEE-2020). 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 recent advances in Electrical Engineering field.

TOPICS TO BE COVERED

- Health monitoring scheme for transformers adopting Multi fusion Technique
- Smart grid, SCADA, controllability of renewable energy sources, challenges and probable solutions / Renewable energy sources, challenges for integration for AGC and some recent directions.
- Power electronics converter design and its applications to the photovoltaic system
- Power System Protection in presence of DG Penetration: Challenges and Solutions
- Applications of Embedded systems to Electrical Engineering

RESOURCE PERSONS

Prof. R. Sarathi, IIT Madras
Prof. Nidul Sinha, NIT Silchar
Prof. G.V. Marutheswar, S.V.University, Tirupati
Dr. Abdul Gafoor Shaik, Assoc.Prof IIT Jodhpur
Dr. Amrithesh Kumar, Asst. Prof, NIT Silchar

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.

IMPORTANT DATES:

The last date of Registration on or before 02-06-2020.

Date of Event: 3rd June 2020 to 7th June 2020

Time: 10.30AM to 12.30 PM.

No Registration Fee

REGISTRATION LINK

<https://forms.gle/cVmdU3Z7Aj94hJv98>

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

MODE OF PRESENT

ZOOM APP

CONTACT DETAILS

Dr.A.HEMA SEKHAR
PROFESSOR
Ph.No : 9000002358
Dr.E.KIRAN KUMAR
PROFESSOR
Ph.No : 8309273434



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ONLINE FDP ON “RECENT ADVANCES IN ELECTRICAL ENGINEERING” (RAEE-2020)”

Title	:	RECENT ADVANCES IN ELECTRICAL ENGG
Date	:	03/06/2020 to 07/06/2020
Resource Person	:	Prof. R.Sarathi, Prof. Nidul Sinha, Dr. Amritheshkumar, Dr. Abdul Gafoor Shaik & Prof.G.V.Marutheswar
Targeted Group	:	Faculty, research engineers and officers

Objective:-

The main objective of this online FDP to provide the information about recent topics in the Electrical Engineering field. During Day – 1 Prof. R.Sarathi talked about various health monitoring technique. In that he talked about practical applications of structural health monitoring technology, a large number of distributed sensors are usually adopted to monitor the big dimension structures and different kinds of damage. The monitored structures are usually divided into different sub-structures and monitored by different sensor sets. In Day -2 Prof. Nidul Sinha talked about smart grid. The smart grid SCADA system integrates the existing renewable energy sources (RES) system with digital information processing and advanced telemetry systems. It is clear that the increased integration and automation of the electric microgrid and utility grids present new development aspects of energy management. In Day -3 Dr. Amritheshkumar he talked about design of power electronic converters for photovoltaic system. The boost converter is designed to step up a fluctuating solar panel voltage to a higher constant DC voltage. It uses voltage feedback to keep the output voltage constant. In Day -4 Dr. Abdul Gafoor Shaik talked about various challenges and solution in the power system protection. Circuit breaker is the main part of protection system in power system and it automatically isolate the faulty portion of the system by opening its contacts. In Final Day Prof.G.V.Marutheswar talked about application of embedded system in electrical engineering. An Electrical engineer should learn about embedded system because it is like heart for any automation technique.


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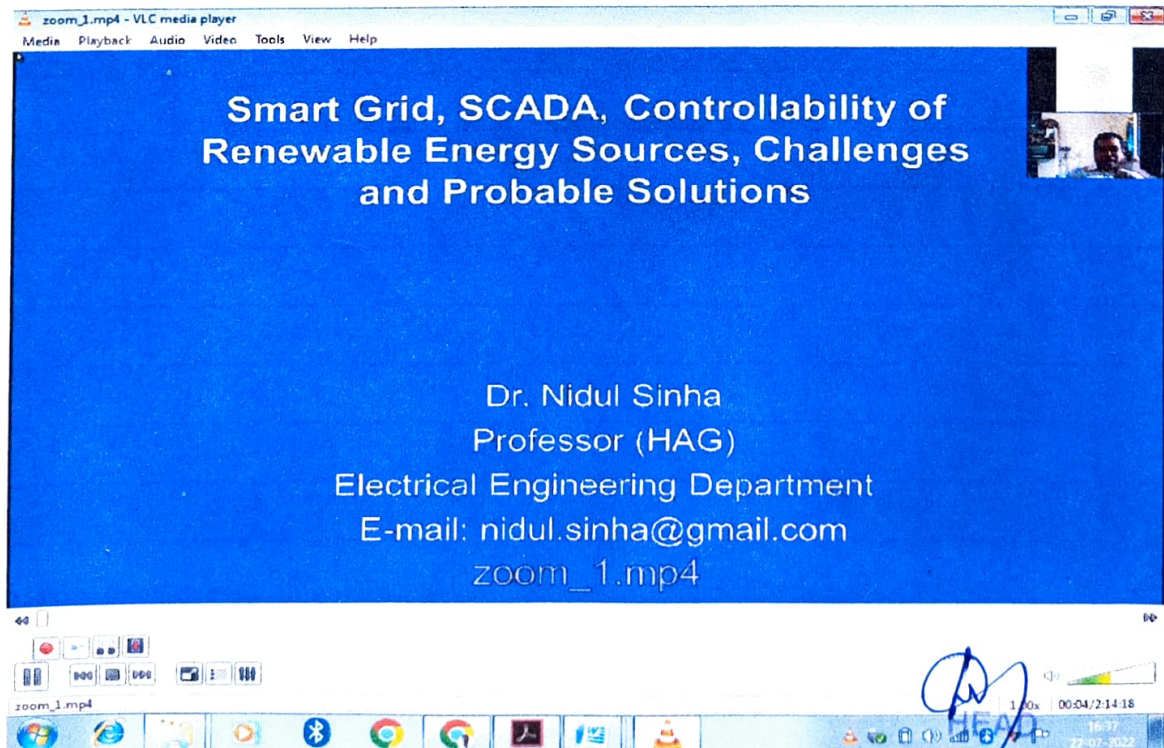
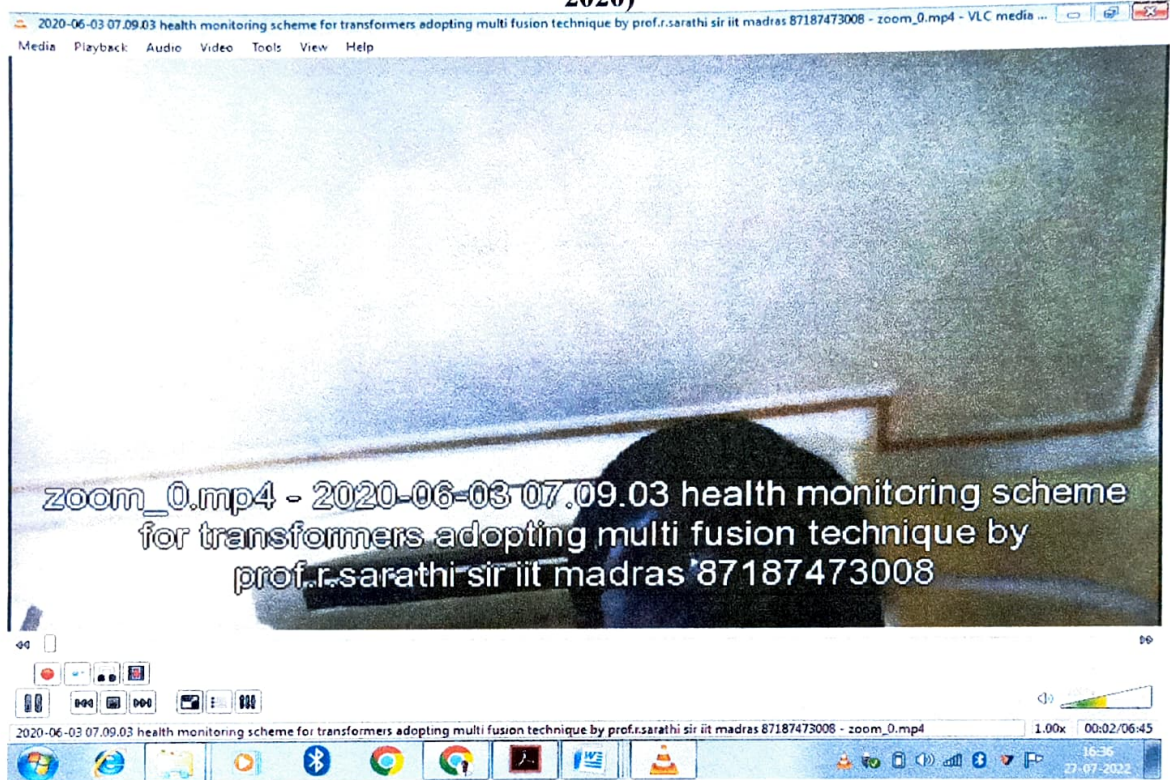
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SAMPLE PHOTOS

ONLINE FDP ON “RECENT ADVANCES IN ELECTRICAL ENGINEERING” (RAEE-2020)”



zoom_1.mp4 - VLC media player
Media Playback Audio Video Tools View Help

Power Electronics Converter Design and Its Applications to the Photovoltaic System

Dr. Amrithesh Kumar
Assistant Professor
Department of Electrical Engineering
NIT Silchar

16:38 27-07-2022

zoom_0.mp4 - VLC media player
Media Playback Audio Video Tools View Help

Power System Protection in presence of DG Penetration: Challenges and Solutions

Dr Abdul Gafoor Shaik
IIT Jodhpur
saodgafoor@iitj.ac.in

16:39 27-07-2022

[Handwritten Signature]
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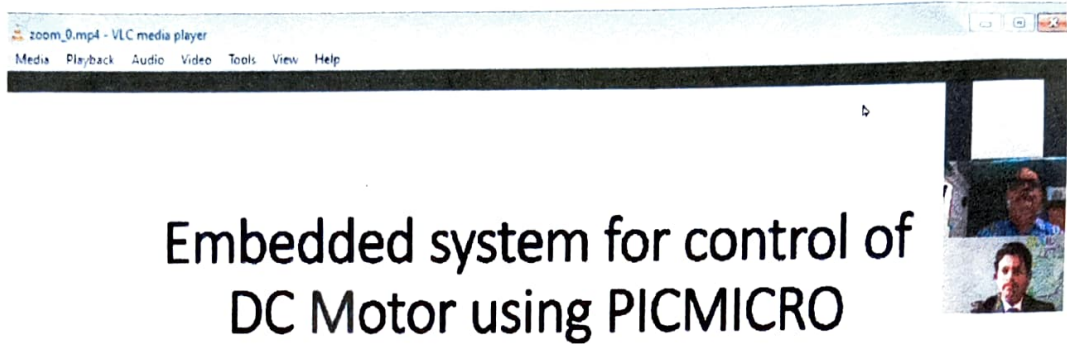
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Embedded system for control of DC Motor using PICMICRO


By

Prof G V Marutheswar

Sri Venkateswara University College of Engineering

Tirupati-517502




PRINCIPAL
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