

## 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
- ❖ 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

### 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.

PRINCIPAL  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112

## THREE DAYS NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM (FDP) ON "RECENT TRENDS IN RENEWABLE ENERGY SOURCES" (RTRE-2020)

29<sup>th</sup> March 2021 to 31<sup>st</sup> March 2021



### CONVENER

Dr. D. CHANDRA SEKHAR  
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

**REGISTRATION FORM**  
**THREE DAYS NATIONAL LEVEL**  
**FACULTY DEVELOPMENT**  
**PROGRAM (FDP) ON "RECENT**  
**TRENDS IN RENEWABLE ENERGY**  
**SOURCES" (RTRE-2020)**

**29<sup>th</sup> March 2021 to 31<sup>st</sup> March 2021**

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 29<sup>th</sup> March 2021 to  
31<sup>st</sup> March 2021.

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:**

**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. M.Murali, M.Tech., Assoc. Professor**  
**Mr.Y.Nagarjuna Reddy, M.Tech. Ass. Prof**  
**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.ArunKumar, M.Tech.,(Ph.D),**  
**Asst.Prof.**  
**Mr.Dilli Prasad, M.Tech, Asst. Prof**  
**Mr.Dastagiri, M.Tech., Asst. Prof.**

**RESOURCE PERSONS**

**Dr.A.Lakshmi Devi, Professor, SVUCE,**  
**Tirupati**  
**Dr.S.Mallikarjunaiah, Professor, CREC,**  
**Tirupati**  
**Mr.P.I.D.T.Baladuraikannan, HoD / EEE,**  
**Sri Vidya College of Engineering and**  
**Technology, Virudhunagar**

**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 : 22.03.2021  
Intimation of Selection : 25.03.2021

**CONTACT DETAILS**

**Dr.A.HEMA SEKHAR**  
**PROFESSOR / EEE**  
**Ph.No : 9000002358**

**Dr.E.KIRAN KUMAR**  
**PROFESSOR / EEE**  
**Ph.No : 8309273434**

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**P. KOTHAKOTA - 517 112**



# VEMU INSTITUTE OF TECHNOLOGY

P.KOTHAKOTA, NEAR PAKALA, CHITTOOR-517112

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA  
Accredited by NAAC, Recognized under 2(f) & 12(B) of UGC Act)

## Department of Electrical and Electronics Engineering


### PROGRAM SCHEDULE THREE DAYS FACULTY DEVELOPMENT PROGRAM (FDP)

ON "RECENT TRENDS IN RENEWABLE ENERGY SOURCES" (RTRE-2020)

29<sup>th</sup> March 2021 to 31<sup>st</sup> March 2021

S. NO.	DATE	TOPIC NAME	RESOURCE PERSON
1	29/03/2021	OFF SHORE WIND POWER OPTIMIZATION	Dr.A.Lakshmi Devi, SVUCE, Tirupati
2	30/03/2021	CHALLENGES & OVERCOMES IN SHADING EFFECT OF PV SYSTEM	P.I.D.T.Baladuraikannan, HoD, Sri Vidya College of Engineering & Technology, Virudhunagar
3	31/03/2021	POWER CONVERTER DESIGN FOR HYBRID RENEWABLE SOURCES	Dr.S.Mallikarjunaiah, Professor, CREC, Tirupati

  
CO-ORDINATOR

  
PRINCIPAL  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112

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



# VEMU INSTITUTE OF TECHNOLOGY:: KOTHAKOTA

NEAR PAKALA, CHITTOOR-517112

Department of Electrical and Electronics Engineering

## ATTENDANCE SHEET

### THREE DAYS FACULTY DEVELOPMENT PROGRAM (FDP)

### ON "RECENT TRENDS IN RENEWABLE ENERGY SOURCES" (RTRE-2020)

29<sup>th</sup> March 2021 to 31<sup>st</sup> March 2021

S.No	Participants Name	29/03/21		30/03/21		31/03/21	
		FN	AN	FN	AN	FN	AN
1	Dr. D.Chandrasekhar						
2	Dr.A.Hema Sekhar						
3	Dr.E.Kiran Kumar						
4	Mr.M.Murali						
5	Mr.Y.Nagarjuna Reddy						
6	Mrs.N.Devasena						
7	Mrs. A.Haritha						
8	Mrs. B.Gamya						
9	Ms. V.Geetha						
10	Mrs.K.Sruthi						
11	Ms. B.Sravani						

V. PRINCIPAL  
VU INSTITUTE OF TECHNOLOGY  
KOTHAKOTA - 517 112



# VEMU INSTITUTE OF TECHNOLOGY: P.KOTHAKOTA

NEAR PAKALA, CHITTOOR-517112

## Department of Electrical and Electronics Engineering

12	Mr.P.Chaitanya Teja	<i>Chitya</i>	<i>Chitya</i>	<i>Chitya</i>	<i>Chitya</i>	<i>Chitya</i>	<i>Chitya</i>
13	Mr.K.Delhi Prasad	<i>Delhi Prasad</i>	<i>Delhi Prasad</i>	<i>Delhi Prasad</i>	<i>Delhi Prasad</i>	<i>Delhi Prasad</i>	<i>Delhi Prasad</i>
14	Mr. Y.Babu Yadav	<i>Babu</i>	<i>Babu</i>	<i>Babu</i>	<i>Babu</i>	<i>Babu</i>	<i>Babu</i>
15	Mr. B.V.Arun Kumar	<i>Arun Kumar</i>	<i>Arun Kumar</i>	<i>Arun Kumar</i>	<i>Arun Kumar</i>	<i>Arun Kumar</i>	<i>Arun Kumar</i>
16	Mr. Chinna .Dastagiri	<i>Ch</i>	<i>Ch</i>	<i>Ch</i>	<i>Ch</i>	<i>Ch</i>	<i>Ch</i>
17	Mr. B.Anil Kumar	<i>Anil</i>	<i>Anil</i>	<i>Anil</i>	<i>Anil</i>	<i>Anil</i>	<i>Anil</i>
18	Mr. G.Mallikarjuna	<i>Mallikarjuna</i>	<i>Mallikarjuna</i>	<i>Mallikarjuna</i>	<i>Mallikarjuna</i>	<i>Mallikarjuna</i>	<i>Mallikarjuna</i>
19	Mr. A. Vinayakam	<i>Vinayakam</i>	<i>Vinayakam</i>	<i>Vinayakam</i>	<i>Vinayakam</i>	<i>Vinayakam</i>	<i>Vinayakam</i>
20	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>
21	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>

*A. S. S.*  
CO-ORDINATOR

*Principal*  
PRINCIPAL  
VEMU INSTITUTE OF TECHNOLOGY  
P. KOTHAKOTA - 517 112

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




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## PARTICIPATION CERTIFICATE

This is to certify that ~~Dr~~/Mr/Mrs Y. NAGARJUNA REDDY  
working as Assistant Professor of EEE department has actively  
participated in Three Days National Level Faculty Development Program (FDP) on  
“RECENT TRENDS IN RENEWABLE ENERGY SOURCES” (RTRE-2020) during  
29/03/2021 to 31/03/2021 Organized by the Department of Electrical and Electronics  
Engineering, VEMU Institute of Technology, P.Kothakota, Chittoor(Dt), A.P.

  
Mr.M.Murali  
Co-Ordinator

  
Dr.D.Chandrasekhar  
HOD-EEE

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



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## PARTICIPATION CERTIFICATE

This is to certify that Dr/Mr/Mrs A. HARITHA  
working as Assistant Professor of EEE department has actively  
participated in Three Days National Level Faculty Development Program (FDP) on  
“RECENT TRENDS IN RENEWABLE ENERGY SOURCES” (RTRE-2020) during  
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Co-Ordinator

  
Dr. D. Chandrasekhar  
HOB-EEE

  
Dr. Naveen Kilari  
Principal  
PRINCIPAL  
VEMU INSTITUTE OF TECHNOLOGY  
KOTHAKOTA, CHITTOOR



# 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

An ISO 9001:2015 Certified Institute)

Department of Electrical and Electronics Engineering

## THREE DAYS FACULTY DEVELOPMENT PROGRAM (FDP) REPORT

**Title :** RECENT TRENDS IN RENEWABLE ENERGY SOURCES” (RTRE-2020)

**Date :** 29/03/2021 to 31/03/2021

**Resource Person :** Dr.A.Lakshmi Devi, Dr.S.Mallikarjunaiah, Mr.P.I.D.T.Baladuraikannan

**Targeted Group :** Faculty, research engineers and officers

**Objective:-**

The main objective of this online FDP is to provide the information about recent activities, research & challenges in the field of Renewable energy. During Day – 1 Dr.A.Lakshmi Devi talked about optimization techniques in offshore windmill power generation. The wind turbine distribution at a given site is optimized in order to extract the maximum energy for the minimum installation costs. The optimization is made by associating a windfarm simulation model based on wake superposition with a genetic search code. In Day -2 Mr.P.I.D.T.Baladuraikannan talked about challenges in PV system by the shading effect. Shading is a problem in PV modules since shading just one cell in the module can reduce the power output to zero. Shading one cell reduces the output of the whole string of cells or modules. Excess power from the unshaded cells is dissipated in the shaded cell. In Day -3 Dr.S.Mallikarjunaiah 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.



*Signature*  
**PRINCIPAL**  
**VEMU INSTITUTE OF TECHNOLOGY**  
**P. KOTHAKOTA - 517 112**

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