



VEMU INSTITUTE OF TECHNOLOGY

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

Three day Faculty Development Program (FDP)

on

**"Smart power grid applications in power
systems"**

BY

Dr.Ch.Chengaiiah

Professor in EEE

**S.V.University College of Engineering,
Tirupati**

Date: 28-11-2018 to 30-11-2018

Target: Faculty Members



VEMU INSTITUTE OF TECHNOLOGY

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

Date:26-11-2018


CIRCULAR



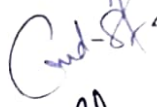


It is hereby informed that the department of EEE is going to conduct Three day Faculty Development Program (FDP) on "**Smart power grid applications in power systems**" from **28-11-2018 to 30-11-2018**. Hence all the staff members are advised to attend the FDP without fail.


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

Copy to Principal sir for Information

Circulate to all EEE Faculty


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

Date:27-11-2018

Three day Faculty Development Program (FDP) on "Smart power grid applications in power systems" from 28-11-2018 to 30-11-2018

Progra Schedule

S.No	DATE	Time	TOPIC NAME	RESOURCE PERSON
1	28-11-2018	10.00 AM To 12.00 NOON	Description of Smart power flow controller	Dr.Ch.Chengaiiah Professor in EEE S.V.University College of Engineering, Tirupati
		2.00 PM To 4.00 PM	A necessity for future power grid	
2	29-11-2018	10.00 AM To 12.00 NOON	Power quality issues in smart grid	
		2.00 PM To 4.00 PM	Solutions to Power quality problems	
3	30-11-2018	10.00 AM To 12.00 NOON	Applications of smart grid to improve Power quality	
		2.00 PM To 4.00 PM	Analysis of power quality improvement in smart grids	

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Department of Electrical and Electronics

Academic Year: 2018-19

Sem: I

Attendance Sheet of Three day Faculty Development Program (FDP) on "Smart power grid applications in power systems" from 28-11-2018 to 30-11-2018

S.No	Name of the faculty	28-11-2018 (FN)	28-11-2018 (AN)	29-11-2018 (FN)	29-11-2018 (AN)	30-11-2018 (FN)	30-11-2018 (AN)
1	Dr.A.Hemasekhar	A.Hem	A.Hem	A.Hem	A.Hem	A.Hem	A.Hem
2	Dr.D.Chandrasekhar	D.Chandrasekhar	D.Chandrasekhar	D.Chandrasekhar	D.Chandrasekhar	D.Chandrasekhar	D.Chandrasekhar
3	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj	T.Dhanaraj
4	M.Murali	M.Murali	M.Murali	M.Murali	M.Murali	M.Murali	M.Murali
5	Y.P.Swapna	Y.P.Swapna	Y.P.Swapna	Y.P.Swapna	Y.P.Swapna	Y.P.Swapna	Y.P.Swapna
6	B. Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani	B.Sravani
7	K.Dillibabu	K.Dillibabu	K.Dillibabu	K.Dillibabu	K.Dillibabu	K.Dillibabu	K.Dillibabu
8	C.MD.Shareef	C.MD.Shareef	C.MD.Shareef	C.MD.Shareef	C.MD.Shareef	C.MD.Shareef	C.MD.Shareef
9	A.Haritha	A.Haritha	A.Haritha	A.Haritha	A.Haritha	A.Haritha	A.Haritha
10	N.Devasena	N.Devasena	N.Devasena	N.Devasena	N.Devasena	N.Devasena	N.Devasena
11	T.Rajasekhar	T.Rajasekhar	T.Rajasekhar	T.Rajasekhar	T.Rajasekhar	T.Rajasekhar	T.Rajasekhar
12	Y.Nagarjunareddy	Y.Nagarjunareddy	Y.Nagarjunareddy	Y.Nagarjunareddy	Y.Nagarjunareddy	Y.Nagarjunareddy	Y.Nagarjunareddy
13	K.Sruthi	K.Sruthi	K.Sruthi	K.Sruthi	K.Sruthi	K.Sruthi	K.Sruthi

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14	V.Geetha						
15	K.Sumalatha						
16	B.Gamya						
17	N.Vaseem Raja						
18	B.Anil Kumar						
19	Mr.G.Mallikarjuna						
20	Mr.V.Ramesh						

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PARTICIPATION CERTIFICATE

This is to certify that ~~Dr/Mr~~/Ms K. Sruithi
working as Assistant professor of EEE department has actively
participated in Three Days FDP on “SMART POWER GRID APPLICATIONS IN
POWER SYSTEMS” during **28/11/2018** to **30/11/2018** organized by Department of
EEE, VEMU IT.

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VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

A. Hemasekhar
Dr. A. Hemasekhar
Co-Ordinator

Dr. D. Chandrasekhar
Dr. D. Chandrasekhar
HOD-EEE

Dr. T. Chandra sekhar Rao
Dr. T. Chandra sekhar Rao
Principal

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PARTICIPATION CERTIFICATE

This is to certify that ~~Dr~~/Mr/~~Ms~~ T. Dhanaraj
working as Associate professor of EEE department has actively participated in Three Days FDP on “SMART POWER GRID APPLICATIONS IN POWER SYSTEMS” during 28/11/2018 to 30/11/2018 organized by Department of EEE, VEMU IT.

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VEMU INSTITUTE OF TECHNOLOGY
P. KOTHAKOTA - 517 112

A. Hemasekhar
Dr.A.Hemasekhar
Co-Ordinator

Dr.D.Chandrasekhar
Dr.D.Chandrasekhar
HOD-EEE

Dr. T.Chandra sekhar Rao
Dr. T.Chandra sekhar Rao
Principal



VEMU INSTITUTE OF TECHNOLOGY

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Date: 30-11-2018

Three days Faculty Development Program (FDP) on “Smart power grid applications in power systems” from 28-11-2018 to 30-11-2018

Report

The Department of Electrical & Electronics Engineering Organized Three days Faculty Development Program (FDP) on “Smart power grid applications in power systems” from 28-11-2018 to 30-11-2018 under VETA Association.

In Day 1, Dr.Ch.Chengaiiah explained about the Power flow control techniques have been practiced, from using inductors, capacitors, transformers and load tap changers in the earlier days of electrical engineering to power electronics-based solutions in recent years. Even though the costs and complexities of the available solutions vary widely, the basic underlying theory of power flow control is still the same as it always has been. The question is which solution one should employ. In Day 2, he discussed about the challenges faced by the smart grid and microgrid can be categorized as two, viz., wide variations in power quality which are unpredictable including, slow voltage changes, frequency deviations, harmonics, flicker and unbalance. In Day 3, he discussed as the grid becomes more intelligent, it will be able to automatically self-monitor and assess its reliability and adapt to changing conditions. This enhanced functionality will mean greater reliability for customers, improved power quality, and potentially fewer failures of bulk-power systems



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