



# VEMU INSTITUTE OF TECHNOLOGY:: P.KOTHAKOTA

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

## Department of Electrical & Electronics Engineering

VEMU/EEE/2020-21

Date: 11-05-2021

### Circular

It is hereby informed to all the EEE Lab Technicians that there is a one day Workshop on “Simulation of Power Converters Using Matlab” on 12/05/2021 by inviting Dr.A.HEMA SEKHAR, Professor / EEE, Vemu institute of technology, P.kothakota. Hence all the EEE Lab Technicians are instructed to attend the workshop without fail.

**Venue:** Electrical simulation lab, Block-2, Vemu IT.

**Time:** 10.00am-1.00pm

1.50pm-4.00pm

**Copy To:** The Principal Desk,

The Staff In-charge,

Circulate among all Lab Technicians.

V.R. Sharma.

Rekha.

P. Yarasiddh

G. Nishan

Sharma.

Sujatha

A. Jeyap

  
HOD

HEAD

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



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## Department of Electrical & Electronics Engineering

### A WORKSHOP ON "SIMULATION OF POWER CONVERTERS USING MATLAB"

#### Attendance

S.No.	Name of the Participant	12/05/2021	
		FN	AN
1.	Mr.V.Rakesh Sharma	V.R.Sharma	V.R.Sharma
2.	Mr.P.Yerraiah	P.Yerraiah	P.Yerraiah
3.	Mrs.T.Rekha	T.Rekha	T.Rekha
4.	Mr.A.Jyothi Kishore	J.K	J.K
5.	Mr.G.Nishar Ahamed	G.Nishar Ahmad	G.Nishar Ahmad
6.	Mrs.M.Sujatha	Sujatha	Sujatha

  
Co-ordinator

  
HOD/EEE  
HEAD  
DEPARTMENT OF EEE  
VEMU INSTITUTE OF TECHNOLOGY

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NEAR PAKALA, CHITTOOR-517112

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## PARTICIPATION CERTIFICATE

This is to certify that Mr/~~Ms~~/Miss A. Jyothi Kishore  
of EEE department has actively participated in One day Workshop on  
“**Simulation of Power Converters Using MATLAB**” on 12/05/2021 organized by  
Department of Electrical & Electronics Engineering, Vemu Institute of Technology,  
P.Kothakota.

  
Dr. D. Chandrasekhar  
HO-EEE

  
Dr. Naveen Kilari  
Principal



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## PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Miss V. Rakesh Sharma  
of EEE department has actively participated in One day Workshop on  
“Simulation of Power Converters Using MATLAB” on 12/05/2021 organized by  
Department of Electrical & Electronics Engineering, Vemu Institute of Technology,  
P.Kothakota.

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

*Naveen*  
Dr. Naveen Kilari  
Principal

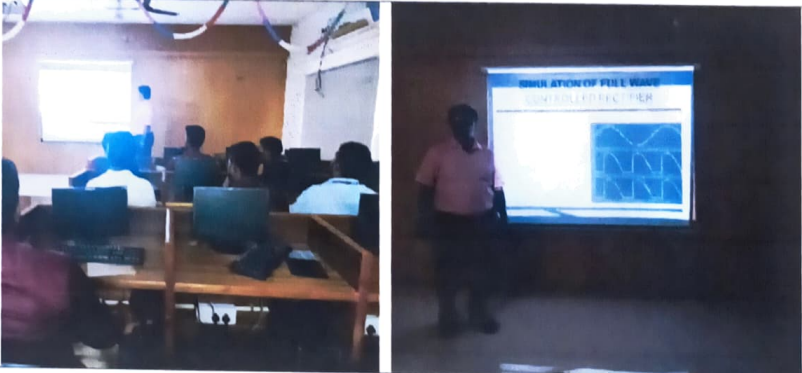



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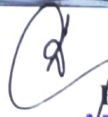
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## Department of Electrical & Electronics Engineering

### REPORT

<b>Event Type</b>	<b>Offline Staff Skill Development Program</b>
<b>Title of the Event</b>	<b>One day Workshop on "Simulation of Power Converters Using Matlab"</b>
<b>Dates</b>	<b>12/05/2021</b>
<b>Keynote speaker</b>	<b>Dr.A.HEMA SEKHAR, Professor / EEE, Vemu institute of technology, P.kothakota</b>
<b>Faculty Coordinator</b>	<b>Mr.Chinna Dasthagiri</b>
<b>Venue</b>	<b>Simulation Lab</b>
<b>Benefited Persons</b>	<b>EEE Lab technicians (6 Participants)</b>
<b>Description about the Event</b>	<p>The main objective of this Staff Skill Development Program is to provide the hands on training to EEE Lab technicians in the field various Power converters simulation using MATLAB software. The name MATLAB stands for matrix laboratory. MATLAB was originally written to provide easy access to matrix software developed by the LINPACK and EISPACK projects, which together represent the state-of-the-art in software for matrix computation. MATLAB has evolved over a period of years with input from many users. MATLAB<sup>®</sup> is a programming platform designed specifically for engineers and scientists to analyze and design systems and products that transform our world. The heart of MATLAB is the MATLAB language, a matrix-based language allowing the most natural expression of computational mathematics. The Power Electronic Converter can be classified into six types namely Diode Rectifier, AC to DC Converter (Controlled Rectifier), DC to DC Converter (DC Chopper), AC to AC Converter (AC voltage regulator), DC to AC Converter (Inverter) and Static Switches.</p>
<b>Outcome</b>	<ul style="list-style-type: none"> <li>❖ Basic tools in MATLAB,</li> <li>❖ Simulation of Diode Rectifier,</li> <li>❖ Simulation of 1 phase Controlled Rectifier,</li> <li>❖ Simulation of Buck converter and</li> <li>❖ Simulation of Voltage regulator.</li> </ul>
<b>Photos</b>	

  
(co-coordinator)

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