



# 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: 16-10-2020

### Circular

It is hereby informed to all the EEE Lab Technicians that there is a one day Workshop on “**Optimization Techniques**” on **20/10/2020** by inviting Dr.K.V.N.V.N.Rao, Professor, department of Mechanical Engineering, 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.

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

*& Yerraidu*  
*A. Vishal Kumar*  
*Rekha*  
*V. R. Sharma*  
*A. Suf*



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Chennai - Tirupati National Highway, P.Kothakota, Near Palala, Chittoor(D.C. AP - 517111)

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## Department of Electrical & Electronics Engineering

### A WORKSHOP ON "OPTIMIZATION TECHNIQUES"

#### Attendance

S.No.	Name of the Participant	20/10/2020	
		FN	AN
1.	Mr.A.Rakesh Sharma	V. Ramesh	V. Sharma
2.	Mr.P.Yerraiiah	P.Yerraiiah	P.Yerraiiah
3.	Mrs.T.Rekha	T.Rekha	T.Rekha
4.	Mr.A.Jyothi Kishore	A.Jyothi	A.Jyothi
5.	Mr.G.Nishar Ahamed	G.Nishar Ahamed	G.Nishar Ahamed

  
Co-ordinator

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

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NEAR PAKALA, CHITTOOR-517112

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## PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Miss P. Yerraiah

of EEE department has actively participated in One day Workshop on  
“**Optimization Techniques**” on **20/10/2020** organized by Department of Electrical &  
Electronics Engineering, Vemu Institute of Technology, P.Kothakota.

  
Dr. D. Chandrasekhar  
HOD-EEE

  
Dr. Naveen Kilari  
Principal

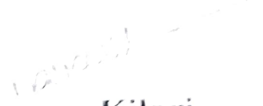
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## PARTICIPATION CERTIFICATE

This is to certify that Mr/Ms/Miss T. Rekha  
of EEE department has actively participated in One day Workshop on  
“**Optimization Techniques**” on **20/10/2020** organized by Department of Electrical &  
Electronics Engineering, Vemu Institute of Technology, P.Kothakota.

  
Dr. D. Chandrasekhar  
HOD-EEE

  
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Principal



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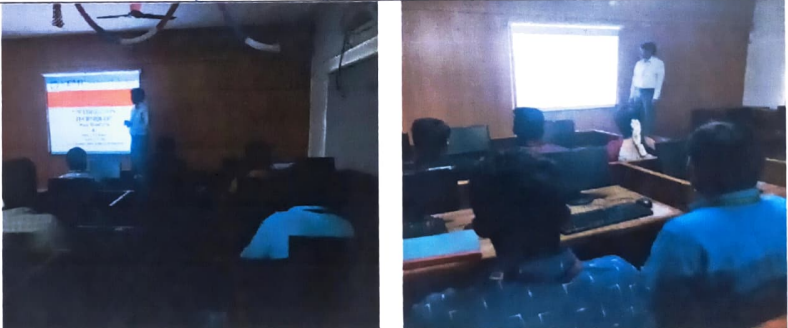
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## Department of Electrical & Electronics Engineering

### REPORT

<b>Event Type</b>	<b>Offline Staff Skill Development Program</b>
<b>Title of the Event</b>	<b>One day Workshop on "Optimization Techniques"</b>
<b>Dates</b>	<b>20/10/2020</b>
<b>Keynote speaker</b>	<b>Dr.K.V.N.V.N.Rao, Professor/Mech, 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 (5 Participants)</b>
<b>Description about the Event</b>	<p>The main objective of this Staff Skill Development Program is to provide information about uses of optimization techniques in real time applications. Optimization technique is a powerful tool to obtain the desired design parameters and best set of operating conditions. This would guide the experimental work and reduce the risk and cost of design and operating. There are two distinct types of optimization algorithms widely used today. (a) Deterministic Algorithms. They use specific rules for moving one solution to other. These algorithms are in use to suite some times and have been successfully applied for many engineering design problems. (b) Stochastic Algorithms. The stochastic algorithms are in nature with probabilistic translation rules. These are gaining popularity due to certain properties which deterministic algorithms do not have. The gradient descent method is the most popular optimisation method. The idea of this method is to update the variables iteratively in the (opposite) direction of the gradients of the objective function.</p>
<b>Outcome</b>	<ul style="list-style-type: none"><li>❖ Basic ideas of optimization,</li><li>❖ Necessity of optimization,</li><li>❖ Various methods of optimization,</li><li>❖ Different optimization algorithm and</li><li>❖ Case study -1 car suspension.</li></ul>
<b>Photos</b>	

  
(Coordinator)

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