### DADI INSTITUTE OF ENGINEERING & TECHNOLOGY



(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

### A NAAC Accredited Institute

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution NH-5, Anakapalle – 531002, Visakhapatnam, A.P.

Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

### **CIRCULAR**

Anakapalle Dt:- 8-1-2017

Department of Electrical & Electronics Engineering is hereby informed that, in view of the feedback received from II B.Tech. EEE students regarding skill enhancement and to improve the expertise of students to DESIGN OF POWER CONVERTERS USING SOFTWARE TOOLS, HOD is advised to depute a faculty from EEE to design the empirical formula for determining the system voltage and develop a suitable course structure in line with basic concepts of power utilization to II B.Tech. EEE students with over 30 working hours. Please ensure that this Add-on course helps them to understand the power circuits. Make arrangements to deliver the course from next week onwards.

**PRINCIPAL** 

### **Dadi Institute of Engineering & Technology**

Approved by AICTE & Permanently Affiliated to JNTUK



NAAC Accredited Institute Visakhapatnam, Andhra Pradesh

### A Five Day Training Program on

### DESIGN OF POWER COVERTERS USING

### About the Institute SOFTWARE TOOLS

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co-educational college in Anakapalle which admits only academically promising students.

Course Instructor Mr. K Vijay Kumar, Assoc. Prof., EEE

Benefitted Students
II B.Tech. EEE

Students will be able to learn the power utilization which includes a device that consumes energy constituting the current, such as a battery or a generator; devices that use current, such as lamps, electric motors, or

**About the Course** 

rules to save the energy.

Duration: 17/1/2017 to 21/1/2017

computers. It is useful to learn and follow the

Venue: Lab - 5 (II - Floor)

### DESIGN OF POWER COVERTERS USING SOFTWARE TOOLS

### **Course Instructor:**

Mr. K Vijay Kumar,

Assoc. Prof., EEE

Dadi Institute of Engineering & Technology

### **Duration:**

5 Days: 17/1/2017 to 21/1/2017

### **Overview & Need for the Course:**

Students will be able to learn the power circuits which includes a device that gives energy to the charged particles constituting the current, such as a battery or a generator; devices that use current, such as lamps, electric motors, or computers; and the connecting wire sortransmission lines.

### **Course Objectives:**

- To Design the empirical formula for determining the system voltage
- Supply system based on the conductor material required for overhead lines and underground cables
- · Need to transmission lines and distribution lines
- Types of transmission line conductors

### **Course Outcomes:**

- To Learn the fundamental of MATLAB & PSPICE Tools
- Togeneratevarious waveformsignalsandsequences
- Toverifyandsimulatevarious transmission lines and distribution lines
- Toverifyandsimulatevarioustheorems
- Todeterminesystem voltage.

### Requirements

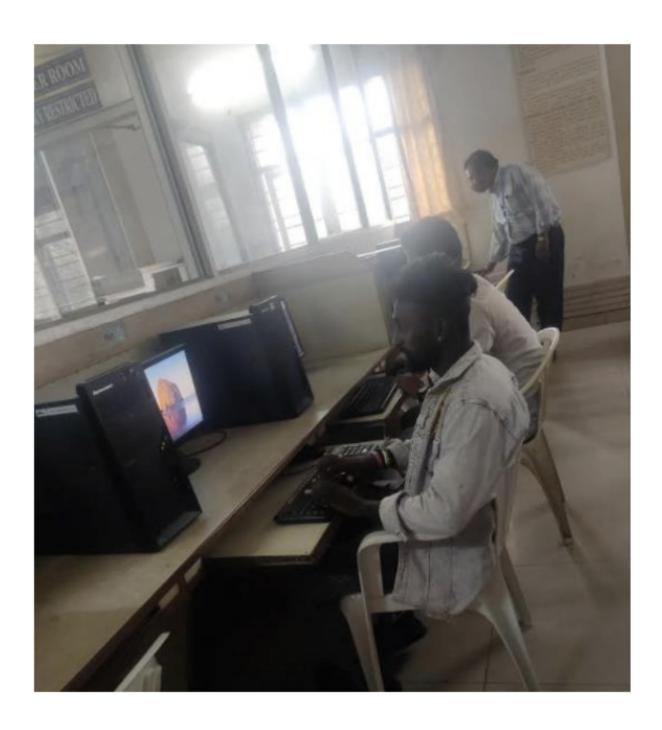
- BasicsKnowledgeof Electricalsystem
- BasicsKnowledgeofcircuitTheory
- Basiccomputerknowledge.

### **Course Contents**

- Chap1. Generation of various signals and sequences, such a sunit Impulse, Step, etc.
- Chap2. OperationsonsignalsandsequencessuchasAdditionMultiplication,
- Chap3. Verification of Kirchhoff's current laward Voltage law using simulation tools.
- Chap4. Determination of electrical parameters
  - 1. Formfactor,
  - 2. Peakfactor
- Chap5. Transmission Lines
  - 1. Need of Transmission and distribution lines
  - 2. Effects of supply frequency and voltage on transmission line

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This Certificate is given to

### AMUJURI NANI

For the successful completion of 5-Days course on Design of power converters using software tools from 17/01/2017 – 21/01/2017

Mr. K. Vijay Kumar Course Instructor

Dr. Ch Prabhakara Rao

**Prabhakara Rao** Principal

Mr. Dadi Ratnakat

. Chairman



This Certificate is given to

### GURRALA SRINU

For the successful completion of 5-Days course on Design of power converters using software tools from 17/01/2017 - 21/01/2017

Mr. K. Vijay Kumar Course Instructor

Dr. Ch Prabhakara Rao Principal

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Mr. Dadi Ratnakar

\*Chairman



This Certificate is given to

### NALLA MADHURI

For the successful completion of 5-Days course on Design of power converters using software tools from 17/01/2017 - 21/01/2017

Mr. K. Vijay Kumar Course Instructor

Dr. Ch Prabhakara Rao 18.8cm. J.

Principal

Mr. Dadi Ratnakar

\*Chairman



This Certificate is given to

### **ULLI VINAY**

For the successful completion of 5-Days course on Design of power converters

using software tools from 17/01/2017 - 21/01/2017

Mr. Dadi Ratnakar

\*Chairman

Mr. K. Vijay Kumar Course Instructor

Dr. Ch Prabhakara Rao 

Principal



This Certificate is given to

# VADDIPARTHI SAI K

For the successful completion of 5-Days course on Design of power converters using software tools from 17/01/2017 - 21/01/2017

Mr. K. Vijay Kumar Course Instructor

Dr. Ch Prabhakara Rao 

Principal

Mr. Dadi Ratnakar

\*Chairman

### DADLIASTITUTE OF ENGINEERING AND TECHNOLOGY

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### STUDENT FEEDBACK FORM

Dear Candidate

You; teedback is critical to: the Institute to ensure that we are meeting you; educational needs. We would appreciate it you could take a tex minutes to stare your opinions with us so that we can serve you before:

Date Duration: SD 17/1/19 - 21/1/12 Instructor Coordinator Kevilog kurror Freedback Suggestions

The content was as described in Publicity Material 1 2 3 0 5

The program was helpful in practical enderstanding 1 2 3 1 5

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The program was well placed within allotted time 1 2 3 1 5

The instructor was an effective communicator 1 2 3 1 5

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### DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY

NAAC Accredited Institute and Inclusion under Section 2(f) & 12 (B) of UGC Act Recipion 2004,2015, ISO 14005/2015 & ISO 45001/2016 Celain at Increase

### STUDENT FEEDBACK FORM

Dear Candidate.

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate a you could take a few minutes to share your opinions with us so that we can serve you better

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