



# **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE & Permanently Affiliated to JNTUK  
NAAC Accredited Institute & Inclusion of 2(f) & 12(B) of the UGC Act  
NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh, diet.edu.in

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## **DESIGN OF POWER CONVERTERS USING SOFTWARE TOOLS**

### **Course Instructor:**

Mr. B. V. Siva Prasad  
Asst. Professor, EEE Department  
Dadi Institute of Engineering & Technology

### **Duration:**

5 Days: (17/1/2022– 21/1/2022)

### **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 wires or transmission 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
- To generate various waveforms signals and sequences
- To verify and simulate various transmission lines and distribution lines
- To verify and simulate various theorems
- To determine system voltage.

## Requirements

- ❖ Basic Knowledge of Electrical system
- ❖ Basic Knowledge of circuit Theory
- ❖ Basic computer knowledge.

## Course Contents

- Chap1. Generation of various signals and sequences, such as unit Impulse, Step, etc.
- Chap2. Operations on signals and sequences such as Addition Multiplication,
- Chap3. Verification of Kirchhoff's current law and Voltage law using simulation tools.
- Chap4. Determination of electrical parameters
1. Form factor,
  2. Peak factor
- Chap5. Transmission Lines
1. Need of Transmission and distribution lines
  2. Effects of supply frequency and voltage on transmission line

### List of Participated Students

1	20U41A0202	O PUJA HEMANTH
2	20U41A0203	P MOHAN
3	20U41A0204	M ASHISH ISAAC
4	20U41A0205	K SAI YESWANT
5	20U41A0206	S JAGAN KUMAR
6	20U41A0207	B MANIKANTA
7	20U41A0208	G VISVESWARA RAO
8	20U41A0209	G BHARATI
9	20U41A0210	CH MAHESH
10	20U41A0211	S SURYA ROHITH
11	20U41A0212	K VENKATESH
12	20U41A0213	B SHYAM SUNDAR
13	20U41A0214	A SRINIVAS
14	20U41A0215	K VISHNUVARDHAN
15	21U45A0201	ARREPU NOOKESH KUMAR
16	21U45A0202	ATHAVA PRAVEEN KUMAR
17	21U45A0203	BARNIKANA GOVINDA
18	21U45A0204	BODAKURTHI VASU
19	21U45A0205	DAKAMARRI RAMU
20	21U45A0206	DASARI YASWANTH
21	21U45A0207	DUKKA SRINIVASA REDDY
22	21U45A0208	DULLA PAVAN KUMAR
23	21U45A0209	GANDRETI GOWTHAM PATNAIK
24	21U45A0210	GANGUPAM DURGA SAI PRASAD
25	21U45A0211	GANNU UMA MAHESWARI
26	21U45A0212	GINNI NAVEEN KUMAR
28	21U45A0214	KALLEMPUDI SAI
29	21U45A0215	KANDHI MANOJ KUMAR
30	21U45A0216	KANDREGULA BHARGAVI
31	21U45A0217	KANUMAREDDY LEELA VARAHA LAVANYA
32	21U45A0218	KORUKONDA YAMINI PRIYANKA
33	21U45A0219	KUNDALA BHANU SAI KRISHNA
34	21U45A0220	M MUTYALA NAIDU [SPOT]
35	21U45A0221	MADAKA RAMA KRISHNA

36	21U45A0222	MADETI MANIKANTA
37	21U45A0223	MALLA HARIKA
38	21U45A0224	MALLA VENKATA KUMAR
39	21U45A0225	MARISERLA VENKATA SAI
40	21U45A0226	MEESALA NAGARAJU
41	21U45A0227	MERUGU PRAMODH
42	21U45A0228	MUMMANA VINAY KUMAR
43	21U45A0229	NAGA DURGA PRASAD KODIBOYINA
44	21U45A0230	PALAKA GAYATHRI
45	21U45A0231	PATTA JYOTHI AMAR SWAROOP
46	21U45A0232	PEBBULI LAXMAN SAI
47	21U45A0233	PEDIREDLA KARTHIK
48	21U45A0234	PILLA VENKATA RAMANA
49	21U45A0235	REYYI VENU
50	21U45A0236	S VAMSI KRISHNA
51	21U45A0237	VIRODHULA MANIKUMAR

28	21U45A0214	KALLEMPUDI SAI
29	21U45A0215	KANDHI MANOJ KUMAR
30	21U45A0216	KANDREGULA BHARGAVI
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51	21U45A0237	VIRODHULA MANIKUMAR

## Gallery



## Sample Certificates



**Dadi Institute of Engineering & Technology**  
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**Course Completion Certificate**

*This Certificate is presented to*  
**PALAKA GAYATHRI**

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*For Successful Completion of one week course on 'Design of Power Converters' using software tools from 17-01-2022 to 21-01-2022*

  
\_\_\_\_\_  
**Mr B V Siva Prasad**  
Coordinator

  
\_\_\_\_\_  
**Prof. Dr. Ch. Narasimham**  
Principal

  
\_\_\_\_\_  
**Sri Dadi Ratnakar**  
Chairman

VISAKHAPATNAM, ANDHRA PRADESH, DIET.EDU.IN




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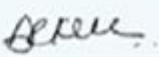
*This Certificate is presented to*  
**MEESALA NAGARAJU**

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**Mr B V Siva Prasad**  
Coordinator

  
\_\_\_\_\_  
**Prof. Dr. Ch. Narasimham**  
Principal

  
\_\_\_\_\_  
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**MALLA HARIKA**

*For Successful Completion of one week course on 'Design of Power Converters' using software tools from 17-01-2022 to 21-01-2022*



Mr B V Siva Prasad  
Coordinator



Prof. Dr. Ch. Narasimham  
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## Course Completion Certificate

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**REYYI VENU**

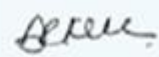
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**MADETI MANIKANTA**

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**Mr B V Siva Prasad**  
Coordinator



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**Prof. Dr. Ch. Narasimham**  
Principal



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**Sri Dadi Ratnakar**  
Chairman



**Feedback from students:**