



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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

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: 28-12-2020

Department of Electrical & Electronics Engineering is hereby informed that, in view of the feedback received from Electrical & Electronics Engineering students regarding skill enhancement and to improve the expertise of students in designing electrical circuits using software tools, HOD is advised to depute a faculty from EEE to design and develop a suitable course structure in line with the concepts of electrical circuits design using software tools for II B.Tech EEE students with over 30 working hours. Please ensure that this Add-on course helps them to acquire the necessary skill set to match the industry needs in their professional career. Make arrangements to deliver the course from next week onwards.

Principal

Dadi Institute of Engineering & Technology, Anakapalle

Dadi Institute of Engineering & Technology

Approved by AICTE & Permanently Affiliated to JNTUK



NAAC Accredited Institute

Visakhapatnam, Andhra Pradesh

A Four Week Training Program on

“Design of Electrical Circuits Using

About the Institute

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.

Software Tools”

Course Instructor

Mr T Ramesh Babu, Asst.

Prof., EEE

About the Course

Students will be able to learn the electrical circuits which includes a device which 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.

About EEE Department

The Department of EEE was established in the year 2006. It offers B.Tech. program, with an initial intake of 120. It also offers M.Tech program in Power & Industrial drives with an intake of 36. The department has good infrastructural facilities and has full-fledged laboratories equipped with adequate hardware and software. The faculty members are actively involved in research and are publishing papers in reputed national and international journals/conferences.

Date: 4/1/2021 to 28/1/2021
Venue: Lab-5 (2nd Floor)

Department of Electrical & Electronics Engineering

DESIGN OF ELECTRICAL CIRCUITS USING S/W TOOLS COURSE

Course Instructor :

Mr.T. Ramesh Babu
Asst. Professor, EEE Department
Dadi Institute of Engineering & Technology

Duration :

4 Weeks : 4/1/2021 to 28/1/2021

Overview & Need for the Course :

Students will be able to learn the electric 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. Two of the basic laws that mathematically describe the performance of electric circuits are Ohm's law and Kirchhoff's rules.

Course Objectives:

- ❖ develop the skill in Creating dynamic web pages
- ❖ Provide knowledge in connecting PHP programs with Mysql database.
- ❖ Develop the skill in server side programming
- ❖ Provide knowledge about Apache server
- ❖ Testing the application on an Application Server.
- ❖ Debugging Web applications locally and remotely

Course Outcomes:

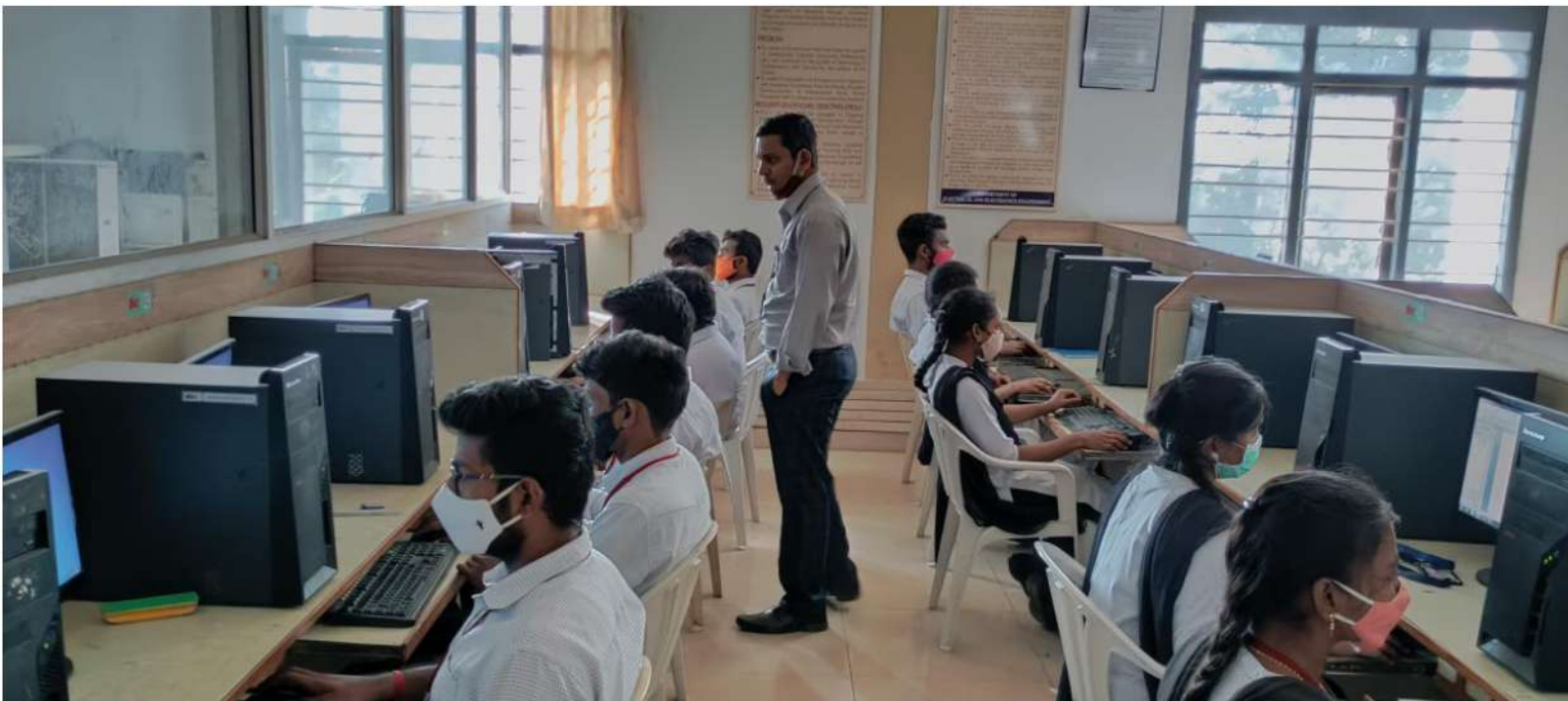
- To Learn the fundamental of MATLAB & PSPICE Tools
- To generate various waveform signals and sequences
- To verify and simulate various electrical circuits using Mesh and Nodal Analysis
- To verify and simulate various theorems
- To determine self and mutual inductance of a magnetic circuit, parameters of a given coil.

Requirements

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

Course Contents

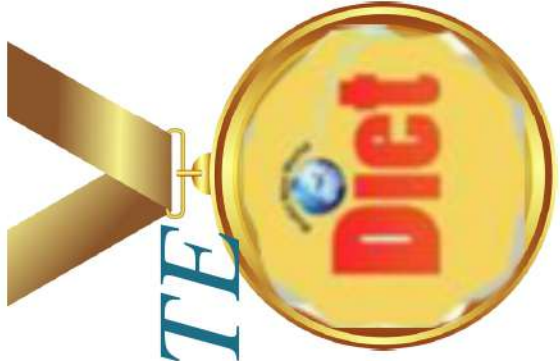
- Chap 1. Generation of various signals and sequences, such as unit Impulse, Step, etc.
- Chap 2. Operations on signals and sequences such as Addition Multiplication, Scaling, Shifting, Folding and Average power
- Chap 3. Verification of Kirchhoff's current law and Voltage law using simulation tools.
- Chap 4. Determination of electrical parameters
1. Average Value,
 2. RMS value
 3. Form factor,
 4. Peak factor
- Chap 5. Develop Circuit Theorems
1. Super position theorem
 2. Reciprocity Theorem
 3. Thevenin's Theorem
 4. Maximum power transfer theorem.



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COURSE COMPLETION CERTIFICATE

This Certificate is given to

Galla Deepthi

For the successful completion of 4-week course on Design of Electrical
Circuits Using S/w tools from 4/1/2021 to 28/1/2021

Mr. T Ramesh Babu
Course Instructor

Dr. Ch Narasimham
Principal

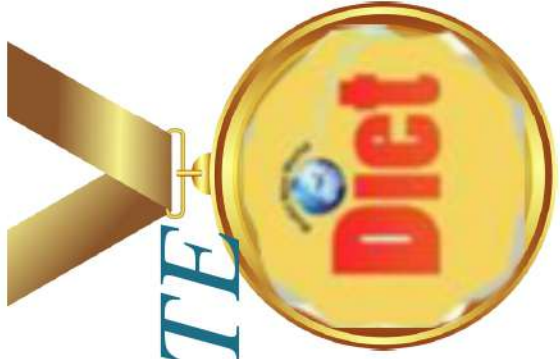
Mr. Dadi Ratnakar
Chairman



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COURSE COMPLETION CERTIFICATE

This Certificate is given to

B SAI PRAVEEN

For the successful completion of 4-week course on Design of Electrical
Circuits Using S/w tools from 4/1/2021 to 28/1/2021

Mr. T Ramesh Babu
Course Instructor

Dr. Ch Narasimham
Principal

Mr. Dadi Ratnakar
Chairman



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COURSE COMPLETION CERTIFICATE

This Certificate is given to

DADI RAVITEJA

For the successful completion of 4-week course on Design of Electrical
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Mr. T Ramesh Babu
Course Instructor

Dr. Ch Narasimham
Principal

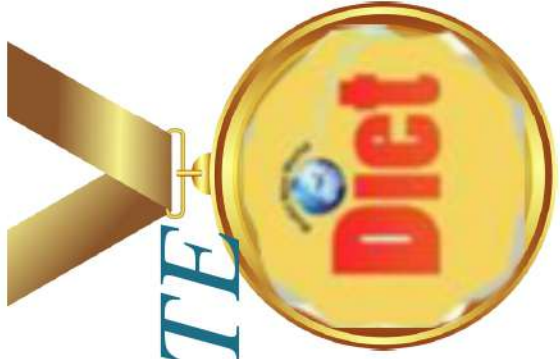
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COURSE COMPLETION CERTIFICATE

This Certificate is given to

KARANAM PAVANI

For the successful completion of 4-week course on Design of Electrical
Circuits Using S/w tools from 4/1/2021 to 28/1/2021

Mr. T Ramesh Babu
Course Instructor

Dr. Ch Narasimham
Principal

Mr. Dadi Ratnakar
Chairman



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COURSE COMPLETION CERTIFICATE

This Certificate is given to

SALAPU SAI GANESH

For the successful completion of 4-week course on Design of Electrical
Circuits Using S/w tools from 4/1/2021 to 28/1/2021

Mr. T Ramesh Babu
Course Instructor

Dr. Ch Narasimham
Principal

Mr. Dadi Ratnakar
Chairman





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NAAC Accredited Institute and Inclusion under Section 2(f) & 12 (B) of UGC Act
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute

STUDENT FEEDBACK FORM

Dear Candidate,

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

Title of the Activity: Design of Electrical Circuits using S/W tools Course

Date Duration: 4 Weeks (31/1/21 - 31/1/21) Instructor/Coordinator: T. Ramesh babu

- | | | | | | |
|---|---|---|---|---|---|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 |

Feedback Suggestions:

Need some more time to know more knowledge about it

Please return this form to the Course Instructor/ Organizer/ Coordinator at the end of the workshop/add-on course/Training Program



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| 5. The instructor was an effective communicator | 1 | 2 | 3 | 4 | 5 |

Feedback Suggestions:

We Learned atleast knowledge about the design of the circuits in short duration

Please return this form to the Course Instructor/ Organizer/ Coordinator at the end of the workshop/add-on course/Training Program