Certification Course

on

Design of Electrical Circuits using MULTISIM

Co ordinator: Miss.A.Jyothirmayi

Date(s) of Event : 24/08/2020-11/09/2020

Organizing department: Electrical and Electronics Engineering

K.S.R.M.COLLEGEOFENGINEERING
(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India–516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram

Cr./KSRMCE/(Department of EEE)/2020-2021 Date: 16/08/2020

To

The Principal,

KSRM College of Engineering,

Kadapa.

Respected Sir

Sub: KSRMCE-(Department of EEE) permission to conduct certification course on "Design of Electrical Circuits uisng MULTISIM"-Request-Regd.

It is brought to your kind notice that, with reference to the cited, the EEE department is planning to conduct Certification Course on "Design of Electrical Circuits Using MULTISIM" for B.Tech, III sem Students from 24 August,2020 to 11 September ,2020.In this regard I kindly request you to grant permission to conduct the certification course. This is submitted for your kind perusal.

Thanking you sir,

Forwarded to principal Sir

HEAD
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

Yours Faithfully

Miss A.Jyothirmayi

Asst.Prof,Dept.EEE

KSRMCE,Kadapa.

To the Director for Information

To All Deans/HoD's/IQAC

Permitted

V. S. S. Murty

PRINCIPAL
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA - 516 003. (A.P.)

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Cr./KSRMCE/(Department of EEE)/2020-2021 Date: 16/08/2020

Circular

All the B.Tech III Sem EEE students are here by informed that department of EEE is going to conduct certificate course on " Design of Electrical Circuits Using Multisim" from 24 August,2020 to 11 September ,2020.Interested students may register their names on or before 22 August,2020 before 5 Pm.

For any queries contact faculty coordinator:

Miss.A.Jyothirmayi, Asst.Prof, Dept.EEE, KSRMCE, Kadapa.

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Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003
HoD

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Department of Electrical and Electronics Engineering

Certification Course

On

Design of Electrical Circuits using MULTISIM

List of Participants

S.No	Name of the Student	Roll Number	Email Id
1	BANDI SAI SREE (W)	199Y1A0201	199Y1A0201@ksrmce.ac.in
2	BOLISETTY VENKATA CHARITHA (W)	199Y1A0202	199Y1A0202@ksrmce.ac.in
3	BUKKEY CHANDRA SEKHAR NAIK	199Y1A0203	199Y1A0203@ksrmce.ac.in
4	BUSIREDDY PARVATHAMMAGARI EKSHITHA (W)	199Y1A0204	199Y1A0204@ksrmce.ac.in
5	CHINNADI PRAMOD JOSHI	199Y1A0206	199Y1A0206@ksrmce.ac.in
6	CHITTIBOINA HARI PRASAD	199Y1A0207	199Y1A0207@ksrmce.ac.in
7	CHOWDAM MOHAN KRISHNA	199Y1A0208	199Y1A0208@ksrmce.ac.in
8	DERANGULA NAVEEN SAI	199Y1A0209	199Y1A0209@ksrmce.ac.in
9	DODDA MAREPPA GARI BOJE GOWD	199Y1A0210	199Y1A0210@ksrmce.ac.in
10	DURNOOTHALA REDDYVARI GAYATHRI (W)	199Y1A0212	199Y1A0212@ksrmce.ac.in
11	GANDHAM NITHYA CHANDANA (W)	199Y1A0213	199Y1A0213@ksrmce.ac.in
12	GORLA UMA MAHESWAR REDDY	199Y1A0214	199Y1A0214@ksrmce.ac.in
13	GUDUMCHARLA ASHOK	199Y1A0215	199Y1A0215@ksrmce.ac.in
14	GUDURU ANAND	199Y1A0216	199Y1A0216@ksrmce.ac.in
15	GUNDLURU SAI PUNEETH KUMAR	199Y1A0217	199Y1A0217@ksrmce.ac.in
16	JESTADI PRAVEENKUMAR	199Y1A0218	199Y1A0218@ksrmce.ac.in
17	KADIRI NAVEEN	199Y1A0219	199Y1A0219@ksrmce.ac.in
18	KALVAPALLI PAVITHRA (W)	199Y1A0220	199Y1A0220@ksrmce.ac.in
19	KAMMARI NITHISH KUMAR	199Y1A0221	199Y1A0221@ksrmce.ac.in
20	KATHERAPALLE SAMARA SIMHA REDDY	199Y1A0222	199Y1A0222@ksrmce.ac.in
21	KATLAGALLU NIKHAT SULTHANA (W)	199Y1A0223	199Y1A0223@ksrmce.ac.in
22	KATTA VENKATA SAI SREEDHAR	199Y1A0224	199Y1A0224@ksrmce.ac.in
23	KONGANI VENKATA RAMANA	199Y1A0225	199Y1A0225@ksrmce.ac.in
24	KORRAPATI SAKESH REDDY	199Y1A0226	199Y1A0226@ksrmce.ac.in
25	MADAKABOYINA RAM MOHAN	199Y1A0227	199Y1A0227@ksrmce.ac.in.
26	MANDA KIRAN BABU	199Y1A0228	199Y1A0228@ksrmce.ac.in
27	MIDDE GURU TEJA	199Y1A0231	199Y1A0231@ksrmce.ac.in
28	MULA SUPRAJA (W)	199Y1A0233	199Y1A0233@ksrmce.ac.in
29	NAGIREDDY MANIKANTA REDDY	199Y1A0234	199Y1A0234@ksrmce.ac.in
30	NAGURU SAI JYOTHI (W)	199Y1A0235	199Y1A0235@ksrmce.ac.in
31	NAMALA INDU (W)	199Y1A0236	199Y1A0236@ksrmce.ac.in
32	PAGALA BUJJI (W)	199Y1A0237	199Y1A0237@ksrmce.ac.in
33	PEDDAMAVIREDDYGARI CHINNA PEDDI REDDY	199Y1A0238	199Y1A0238@ksrmce.ac.in
34	PONNOLI SUMANTH KUMAR	199Y1A0240	199Y1A0240@ksrmce.ac.in

35	POTTOLLA GIRIDHAR	199Y1A0242	199Y1A0242@ksrmce.ac.in
36	SHAIK SAMEER BASHA	199Y1A0244	199Y1A0244@ksrmce.ac.in
37	SIRIGI REDDY LOKENDRA REDDY	199Y1A0245	199Y1A0245@ksrmce.ac.in
38	SIRIGIREDDY HARI KRISHNA REDDY	199Y1A0246	199Y1A0246@ksrmce.ac.in
39	SUNKESALA YESWANTH REDDY	199Y1A0247	199Y1A0247@ksrmce.ac.in
40	SYED ASMA FARHEEN (W)	199Y1A0248	199Y1A0248@ksrmce.ac.in
41	SYED KHAMAR HUSSAIN	199Y1A0249	199Y1A0249@ksrmce.ac.in
42	TADIGOTLA SOWMYA (W)	199Y1A0250	199Y1A0250@ksrmce.ac.in
43	THUMMALURI JYOTHI BHARGAVI (W)	199Y1A0251	199Y1A0251@ksrmce.ac.in
44	TIRUMALA SETTY PRUDHULA (W)	199Y1A0252	199Y1A0252@ksrmce.ac.in
45	VALLURU DIVYA TEJA (W)	199Y1A0253	199Y1A0253@ksrmce.ac.in
46	VUTUKURU KRANTI KUMAR REDDY	199Y1A0254	199Y1A0254@ksrmce.ac.in
47	YAPARALA YESHASWINI (W)	199Y1A0256	199Y1A0256@ksrmce.ac.in
48	YERRAGUDIPADU CHANDRA KALA	199Y1A0257	199Y1A0257@ksrmce.ac.in

Coordinator

HOD

HEAD
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

Design of Electrical Circuits Using MULTISIM

Syllabus of Course

Sl. No.	Topic	Hours
		Theory
Module 1	Introduction to MUTISIM software ,Design procedur and Steps, Evalaution of voltage/ Currents using kvl, Evalaution of voltage/ Currents using kvl	07
Module 2	Evalaution of voltage/ Currents using kcl ,Design of dependent Source Circuits for dc excitation,	08
Module 3	, Design of dependent Source Circuits for ac excitation Design of dependent Source Circuits for dc excitation, Design of dependent Source Circuits for ac excitation	08
Module 4	Response of half wav e and full wave rectifier circuits, Voltage divider circuit designing, Design of Bridge rectifier circuit	07

Text Books

1.Fundamentals of Electronic Circuit Design: Getting Started: MultiSim- John Wiley & Sons;

2.NI MULTISIM user manual-file:///C:/Users/Admin/Desktop/CC/NI%20MULTISIM.pdf

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Department of Electrical and Electronics Engineering

Certification Course on

Design of Electrical Circuits using MULTISIM

Schedule

Timing: 4:00pm – 6:00pm

S.No	Date	Course Coordinator	Topic Coverd
1	24/08/2020	Smt.SalehaTabassum	Introduction to MUTISIM software
2	25/08/2020	Smt.SalehaTabassum	Design procedur and Steps
3	26/08/2020	Smt.SalehaTabassum	Evalaution of voltage/ Currents using kvl
4	27/08/2020	Miss.A.Jyothirmayi	Evalaution of voltage/ Currents using kvl
5	28/08/2020	Miss.A.Jyothirmayi	Evalaution of voltage/ Currents using kcl
6	29/08/2020	Miss.A.Jyothirmayi	Evalaution of voltage/ Currents using kcl
7	01/09/2020	Smt.SalehaTabassum	Design of dependent Source Circuits for dc excitation
8	02/09/2020	Smt.SalehaTabassum	Design of dependent Source Circuits for dc excitation
9	03/09/2020	Smt.SalehaTabassum	Design of dependent Source Circuits for ac excitation
10	04/09/2020	Miss.A.Jyothirmayi	Design of dependent Source Circuits for ac excitation
11	05/09/2020	Miss.A.Jyothirmayi	Response of half wavw and full wave rectifier circuits.
12	07/09/2020	Miss.A.Jyothirmayi	Voltage divider circuit designing
13	08/09/2020	Smt.SalehaTabassum	Design of Bridge rectifier circuit
14	09/09/2020	Smt.SalehaTabassum	Designing of LED glow circuit.
15	10/09/2020	Miss.A.Jyothirmayi	Designing of Automatic Door Lock System
16	11/09/2020	Miss.A.Jyothirmayi	Amplification of frequency signal using MATALB/Simulink.

Coordinator

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Department of Electrical and Electronics Engineering

Activity Report

Name of the Event	: Design of Electrical Circuits using MULTISIM
Date of the Event	: 24/08/2020 -11/09/2020
Scheduled Time	: 4.00 to 6.00PM
Target Audience	: B.Tech III Sem
Course Co-ordinator	: Miss.A.Jyothirmayi
Venue of the Event.	: online (https://meet.google.com/lookup/egkgoynkys)

ActivityDescription:

MULTISIM is one of the important tools for electrical students to learn the circuit designing. Department of EEE organized a Certification course on "Design of Electrical Circuits Using MULTISIM".Resource persons began the session Introduction to MULTISIM followed by Measurement of electrical parameters. Students able to learn Implementation of Network Solving Techniques by practising various examples. Students were issued participation certificates by the Head of the Department.

Coordinator HOD Principal

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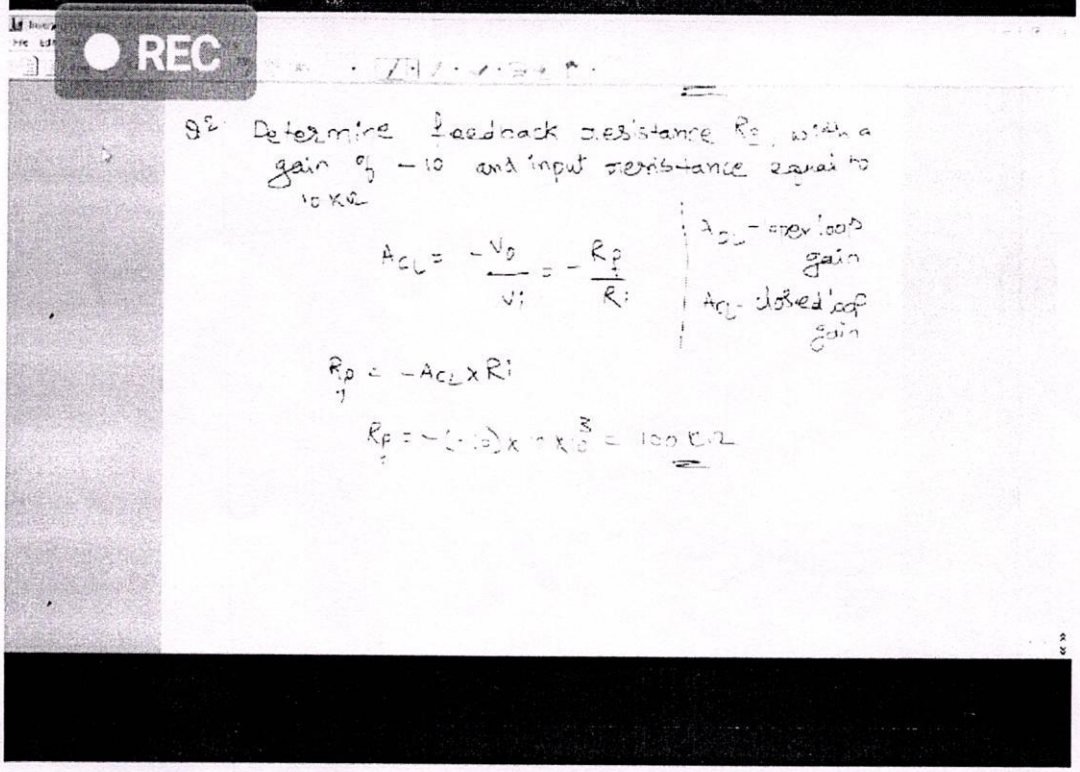
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

PRINCIPAL
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA - 516 003. (A.P.)



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Kadapa, Andhra Pradesh, India- 516 003

Certificate Course on

DESIGN OF ELECTRICAL CIRCUITS USING MULTISIM

24/08/2020 to 11/09/2020

Organized by

DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India– 516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

Department of Electrical and Electronics Engineering

Certification Course on Design of Electrical Circuits using MULTISIM

Attendance Sheet

S.No	Name of the Student	Roll List	24/08	25/08	26/08	27/08	28/08	29/08	1/09	2/09	3/09	4/09	5/09	7/09	8/09	9/09	10/09	11/09
1	BANDI SAI SREE	199Y1A0201	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
2	B.VENKATA CHARITHA	199Y1A0202	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	B. CHANDRA SEKHAR NAIK	199Y1A0203	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	B.PARVATHAMMAGARI EKSHITHA	199Y1A0204	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	C.PRAMOD JOSHI	199Y1A0206	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	CHITTIBOINA HARI PRASAD	199Y1A0207	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	C. MOHAN KRISHNA	199Y1A0208	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
8	DERANGULA NAVEEN SAI	199Y1A0209	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	DODDA BOJE GOWD	199Y1A0210	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	D.REDDYVARI GAYATHRI	199Y1A0212	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	G. NITHYA CHANDANA	199Y1A0213	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	GORLA UMA MAHESWAR REDDY	199Y1A0214	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A

13	G. ASHOK	199Y1A0215	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
14	GUDURU ANAND	199Y1A0216	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	GUNDLURU SAI PUNEETH KUMAR	199Y1A0217	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	JESTADI PRAVEENKUMAR	199Y1A0218	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
17	KADIRI NAVEEN	199Y1A0219	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	KALVAPALLI PAVITHRA	199Y1A0220	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	KAMMARI NITHISH KUMAR	199Y1A0221	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
20	KATHERAPALLE SAMARA SIMHA REDDY	199Y1A0222	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
21	K. NIKHAT SULTHANA	199Y1A0223	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
22	KATTA VENKATA SAI SREEDHAR	199Y1A0224	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	KONGANI VENKATA RAMANA	199Y1A0225	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	KORRAPATI SAKESH REDDY	199Y1A0226	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	A
25	MADAKABOYINA RAM MOHAN	199Y1A0227	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
26	MANDA KIRAN BABU	199Y1A0228	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	MIDDE GURU TEJA	199Y1A0231	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	MULA SUPRAJA	199Y1A0233	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	N. MANIKANTA REDDY	199Y1A0234	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	NAGURU SAI JYOTHI	199Y1A0235	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓
31	NAMALA INDU	199Y1A0236	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	PAGALA BUJJI	199Y1A0237	✓	✓	A	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	PEDDAMAVIREDDYGARI CHINNA PEDDI REDDY	199Y1A0238	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓
34	P.SUMANTH KUMAR	199Y1A0240	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

35	P. GIRIDHAR	199Y1A0242	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
36	SHAIK SAMEER BASHA	199Y1A0244	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	S.LOKENDRA REDDY	199Y1A0245	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	S.HARI KRISHNA REDDY	199Y1A0246	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓
39	S.YESWANTH REDDY	199Y1A0247	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	SYED ASMA FARHEEN	199Y1A0248	✓	✓	✓	✓	A	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
41	SYED KHAMAR HUSSAIN	199Y1A0249	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42	TADIGOTLA SOWMYA	199Y1A0250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43	THUMMALURI JYOTHI BHARGAVI	199Y1A0251	✓	✓	A	✓	✓	✓	A	✓	✓	✓	✓	✓	A	✓	✓	✓
44	T. SETTY PRUDHULA	199Y1A0252	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
45	VALLURU DIVYA TEJA	199Y1A0253	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46	V. KRANTI KUMAR REDDY	199Y1A0254	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓
47	YAPARALA YESHASWINI	199Y1A0256	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	Y.CHANDRA KALA	199Y1A0257	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓

Coordinator

HOD

HEAD
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

How important is Multisim?

Multisim has an **intuitive interface that helps educators reinforce circuit theory and improve retention of theory throughout engineering curriculum**. Researchers and designers use Multisim to reduce PCB prototype iterations and save development costs by adding powerful circuit simulation and analyses to the design flow.

How can a student get Multisim?

- The student must purchase the software online through one of **our distributors like Studica**.
- Students can also download an evaluation version of the NI Circuit Design Suite Education Edition (which includes all features from the Student Edition) from our website.

Department of Electrical & Electronics Engineering

10 Must Learn Electrical Engineering Software

1.MATLAB (Software for Numerical Computing)

2. Simulink (GUI based software for Dynamic System Simulation)

3.Pspice (Electrical Schematic Software)

4. Multisim (Circuit Simulation & PCB Design Software)

5.

6. Power World Simulator (Visual Electrical Engineering Software software)

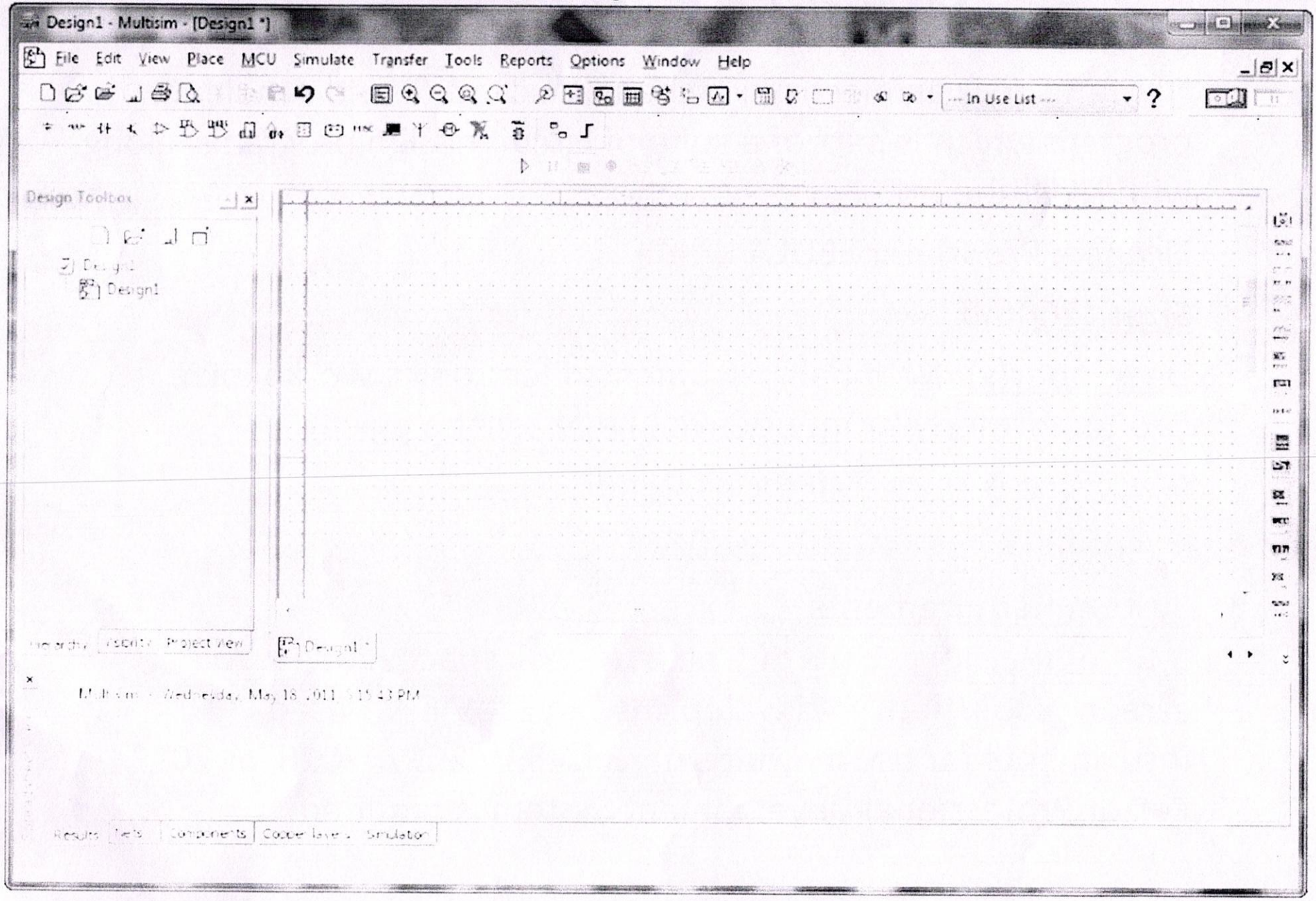
7.PSCAD (Electromagnetic Transient Analysis Software)

8. PSS/E (An Electrical Engineering Software for Power System Simulations)

9.LabVIEW (Designing Interfacing and HMIs)

10. Kiel u Vision

- Multisim is one among the 10 must learn Electrical Engineering Software's
- The job of an Electrical Engineer involves the design, development, simulation, prototyping, and testing of electrical equipment and systems
- Here's given a list of electrical engineering software every Electrical graduate must learn.


Design1 - Multisim - [Design1 *]
File Edit View Place MCU Simulate Transfer Tools Reports Options Window Help
--- In Use List ---
Design Toolbox
Design1
Design1
Design1 *
Results Nets Components Copper layer Simulation

About MULTISIM Software

- NI Multisim is an electronic schematic capture and simulation program which is part of a suite of circuit design programs, along with NI Ultiboard.
- **License:** Proprietary EULA
- **Size:** ~260mb
- **Developer(s):** National Instruments Electronics Workbench Group (formerly by Interactive Image Technologies)
- Operating system: Microsoft Windows
- Stable release: 14.2 / 2019/05/12
- System Requirements

  1 GB of memory. 2 GB of free hard disk space. 1024 x 768 screen resolution. To develop custom LabVIEW-based instruments for use in Multisim, LabVIEW 2017, 2018, or 2019 Full or Professional Development System is required.

	**Print Preview** button. Previews the circuit as it will be printed.
	**Cut** button. Removes the selected elements and places them on the Windows clipboard.
	**Copy** button. Copies the selected elements and places them on the Windows clipboard.
	**Paste** button. Inserts the contents of the Windows clipboard at the cursor location.
	**Undo** button. Undoes the most recently performed action.
	**Redo** button. Redoes the most recently performed undo.

Standard Toolbar

The **Standard** toolbar contains buttons for commonly performed functions. Its buttons are described below:

Button	Description
	New button. Creates a new circuit file.
	**Open** button. Opens an existing circuit file.
	Open Sample button. Opens a folder containing sample and getting started files.
	Save button. Saves the active circuit.
	**Print Circuit** button. Prints the active circuit.

Components Toolbar

The buttons in the **Components** toolbar are described below. Each button will launch the place component browser (**Select a Component** browser) with the group specified on the button pre-selected. Refer to the *Using the Place Component Browser* section for more information.

Button	Description
	**Place Source** button. Selects the **Source** components group in the browser.
	**Place Basic** button. Selects the **Basic** components group in the browser.
	**Place Diode** button. Selects the **Diode** components group in the browser.
	**Place Transistor** button. Selects the **Transistor** components group in the browser.
	**Place Analog** button. Selects the **Analog** components group in the browser.
	**Place TTL** button. Selects the **TTL** components group in the browser.

Simulation Toolbar

The **Simulation** toolbar contains buttons used during simulation.

Button	Description
	**Run/resume simulation** button. Starts/resumes simulation of the active circuit. Refer to the *Start/Stop/Pause Simulation* section of Chapter 8, *Simulation*, for more information.
	**Pause simulation** button. Pauses simulation. Refer to the *Start/Stop/Pause Simulation* section of Chapter 8, *Simulation*, for more information.
	**Stop simulation** button. Stops the simulation. Refer to the *Start/Stop/Pause Simulation* section of Chapter 8, *Simulation*, for more information.
	**Pause at Next MCU Instruction Boundary** button. Refer to the *Stepping and Breaking* section for more information.

	**Place CMOS** button. Selects the **CMOS** component group in the browser.
	**Place Miscellaneous Digital** button. Selects the **Miscellaneous Digital** component group in the browser
	**Place Mixed** button. Selects the **Mixed** component group in the browser.
	Place Power Components button. Selects the Power component group in the browser.
	Place Indicator button. Selects the Indicator component group in the browser.

Instruments Toolbar

The buttons in the **Instruments** toolbar are described below. In each case, the button places a specific instrument on the workspace.

Some versions of Multisim do not include all of the instruments described below.

Button	Description
	**Multimeter** button. Places a multimeter on the workspace. Refer to the *Multimeter* section of Chapter 9, *Instruments*, for more information.
	**Function Generator** button. Places a function generator on the workspace. Refer to the *Function Generator* section of Chapter 9, *Instruments*, for more information.
	**Wattmeter** button. Places a wattmeter on the workspace. Refer to the *Wattmeter* section of Chapter 9, *Instruments*, for more information.
	**Oscilloscope** button. Places an oscilloscope on the workspace. Refer to the *Oscilloscope* section of Chapter 9, *Instruments*, for more information.
	**Four Channel Oscilloscope** button. Places a four-channel oscilloscope on the workspace. Refer to the *Four-Channel Oscilloscope* section of Chapter 9, *Instruments*, for more information.

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CERTIFICATE OF PARTICIPATION

B.PARVATHAMMAGARI EKSHITHA, EEE [Roll no-199Y1A0202]

For her active and invaluable participation during the conduct of Certification Courses on "Design of Electrical Circuits Using MULTISIM"" held during 24th August to11 th September , 2020, in Department of Electrical And Electronics Engineering.

Coordonator	HOD	Principal
Miss.A.Jyothirmayi	Dr.K.Amaresh	Dr.V.S.S.Murthy

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Department of Electrical and Electronics Engineering

Certification Course on Design of Electrical Circuits using MULTISIM

Feedback Form

S.No	Name of the Student	Roll List	Is the Course content meet your expectation	Is the lecture sequence well planned	Is the level of course high	Is the course exposed you to the new knowledge and practices	Rate the Knowledge of the Speaker	Rate the value of Course in increasing your skills	Any Issues
1	BANDI SAI SREE	199Y1A0201	Yes	Agree	Yes	Strongly Agree	5	4	Nil
2	B.VENKATA CHARITHA	199Y1A0202	Yes	Agree	Yes	Strongly Agree	4	5	Nil
3	B. CHANDRA SEKHAR NAIK	199Y1A0203	Yes	Agree	Yes	Strongly Agree	5	4	Nil
4	B.PARVATHAMMAGARI EKSHITHA	199Y1A0204	Yes	Agree	Yes	Strongly Agree	4	5	Nil
5	C.PRAMOD JOSHI	199Y1A0206	Yes	Agree	Yes	Strongly Agree	5	4	Nil
6	CHITTIBOINA HARI PRASAD	199Y1A0207	Yes	Agree	Yes	Strongly Agree	4	5	Nil
7	C. MOHAN KRISHNA	199Y1A0208	Yes	Agree	Yes	Strongly Agree	5	4	Nil
8	DERANGULA NAVEEN SAI	199Y1A0209	Yes	Agree	Yes	Strongly Agree	4	5	Nil
9	DODDA BOJE GOWD	199Y1A0210	Yes	Agree	Yes	Strongly Agree	5	4	Nil
10	D.REDDYVARI GAYATHRI	199Y1A0212	Yes	Agree	Yes	Strongly Agree	4	5	Nil
11	G. NITHYA CHANDANA	199Y1A0213	Yes	Agree	Yes	Strongly Agree	5	4	Nil

12	GORLA UMA MAHESWAR REDDY	199Y1A0214	Yes	Agree	Yes	Strongly Agree	4	5	Nil
13	G. ASHOK	199Y1A0215	Yes	Agree	Yes	Strongly Agree	4	5	Nil
14	GUDURU ANAND	199Y1A0216	Yes	Agree	Yes	Strongly Agree	5	4	Nil
15	GUNDLURU SAI PUNEETH KUMAR	199Y1A0217	Yes	Agree	Yes	Strongly Agree	5	4	Nil
16	JESTADI PRAVEENKU MAR	199Y1A0218	Yes	Agree	Yes	Strongly Agree	5	4	Nil
17	KADIRI NAVEEN	199Y1A0219	Yes	Agree	Yes	Strongly Agree	4	5	Nil
18	KALVAPALLI PAVITHRA	199Y1A0220	Yes	Agree	Yes	Strongly Agree	5	4	Nil
19	KAMMARI NITHISH KUMAR	199Y1A0221	Yes	Agree	Yes	Strongly Agree	4	5	Nil
20	KATHERAPAL LE SAMARA SIMHA REDDY	199Y1A0222	Yes	Agree	Yes	Strongly Agree	5	4	Nil
21	K. NIKHAT SULTHANA	199Y1A0223	Yes	Agree	Yes	Strongly Agree	4	5	Nil
22	KATTA VENKATA SAI SREEDHAR	199Y1A0224	Yes	Agree	Yes	Strongly Agree	5	4	Nil
23	KONGANI VENKATA RAMANA	199Y1A0225	Yes	Agree	Yes	Strongly Agree	5	4	Nil
24	KORRAPATI SAKESH REDDY	199Y1A0226	Yes	Agree	Yes	Strongly Agree	4	5	Nil
25	MADAKABO YINA RAM MOHAN	199Y1A0227	Yes	Agree	Yes	Strongly Agree	5	4	Nil
26	MANDA KIRAN BABU	199Y1A0228	Yes	Agree	Yes	Strongly Agree	4	5	Nil
27	MIDDE GURU TEJA	199Y1A0231	Yes	Agree	Yes	Strongly Agree	5	4	Nil
28	MULA SUPRAJA	199Y1A0233	Yes	Agree	Yes	Strongly Agree	4	5	Nil
29	N. MANIKANTA REDDY	199Y1A0234	Yes	Agree	Yes	Strongly Agree	4	5	Nil
30	NAGURU SAI JYOTHI	199Y1A0235	Yes	Agree	Yes	Strongly Agree	5	4	Nil

31	NAMALA INDU	199Y1A0236	Yes	Agree	Yes	Strongly Agree	4	5	Nil
32	PAGALA BUJJI	199Y1A0237	Yes	Agree	Yes	Strongly Agree	4	5	Nil
33	PEDDAMAVI REDDYGARI CHINNA PEDDI REDDY	199Y1A0238	Yes	Agree	Yes	Strongly Agree	5	4	Nil
34	P.SUMANTH KUMAR	199Y1A0240	Yes	Agree	Yes	Strongly Agree	4	5	Nil
35	P. GIRIDHAR	199Y1A0242	Yes	Agree	Yes	Strongly Agree	5	4	Nil
36	SHAIK SAMEER BASHA	199Y1A0244	Yes	Agree	Yes	Strongly Agree	4	5	Nil
37	S.LOKENDRA REDDY	199Y1A0245	Yes	Agree	Yes	Strongly Agree	5	4	Nil
38	S.HARI KRISHNA REDDY	199Y1A0246	Yes	Agree	Yes	Strongly Agree	4	5	Nil
39	S.YESWANTH REDDY	199Y1A0247	Yes	Agree	Yes	Strongly Agree	5	4	Nil
40	SYED ASMA FARHEEN	199Y1A0248	Yes	Agree	Yes	Strongly Agree	4	5	Nil
41	SYED KHAMAR HUSSAIN	199Y1A0249	Yes	Agree	Yes	Strongly Agree	5	4	Nil
42	TADIGOTLA SOWMYA	199Y1A0250	Yes	Agree	Yes	Strongly Agree	5	4	Nil
43	THUMMALURI JYOTHI BHARGAVI	199Y1A0251	Yes	Agree	Yes	Strongly Agree	4	5	Nil
44	T. SETTY PRUDHULA	199Y1A0252	Yes	Agree	Yes	Strongly Agree	5	4	Nil
45	VALLURU DIVYA TEJA	199Y1A0253	Yes	Agree	Yes	Strongly Agree	5	4	Nil
46	V. KRANTI KUMAR REDDY	199Y1A0254	Yes	Agree	Yes	Strongly Agree	4	5	Nil
47	YAPARALA YESHASWINI	199Y1A0256	Yes	Agree	Yes	Strongly Agree	5	4	Nil
48	Y.CHANDRA KALA	199Y1A0257	Yes	Agree	Yes	Strongly Agree	4	5	Nil

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