



EXCEL ENGINEERING COLLEGE

(Autonomous)

**Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A+" and Recognised by UGC (2f &12B)**


KOMARAPALAYAM - 637303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2022-23

Name of the value-added courses (with 30 or more contact hours) offered	Course Code, if any	No. of times offered during the year	Duration of course (in hours)	Number of students enrolled during the year	1.3.3 Number of students who completed the course during the year
Simulation Software for Electrical Engineering	20EEV01	1	30	40	40




Head of the Department
Dept. of Electrical and Electronics Engineering
Excel Engineering College (Autonomous)
NH-544, Pallakapalayam,
Komarapalayam-637303 Namakkal (Dt.), Tamilnadu.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

Date: 04.02.2023

This is to inform that Department of Electrical and Electronics Engineering is planned to organize Value-added courses titled "Simulation Software for Electrical Engineering" and it will commence from 06.02.2023 to 09.02.2023, those who are all interested can attend and utilize the course

Head - EEE

Head of the Department
Dept. of Electrical and Electronics Engineering
Excel Engineering College (Autonomous)
NH-544, Pallakkapalayam,
Komarpalayam-637303, Mamakkal (Dt.), Tamilnadu.





Excël

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Date
06.02.2023
To
09.02.2023
(30 Hrs)

DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

Organizing Value Added Courses on

“Simulation Software for Electrical Engineering”



Mr.M.K.Anandkumar
Mr.M.Anandakumar
Program Co-ordinators

Mr.M.K.Anandkumar
Activity Coordinator

Dr.M.R.Mohanraj
Head of the Department



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Department of Electrical and Electronics Engineering

Value Added Course on "Simulation Software for Electrical Engineering"

06th February 2023 to 09th February 2023

Dr.N.MATHAN KARTHICK

Vice-Chairman, Excel Group Institutions

Will preside over the function

Dr.K.BOMMANNA RAJA

Principal, Excel Engineering College,
Executive Director, Excel Technical Campus
Has kindly consented to felicitate the function

Dr.S.ANBUKARUPPUSAMY

Director Administration, Excel Technical Campus
Has kindly consented to offer felicitate the function

Dr.C.KARTHIKEYANI

Director Academics, Excel Technical Campus
Has kindly consented to offer keynote the function

Dr.M.R.MOHANRAJ

Professor & Head, Department of Electrical and Electronics Engineering
Will welcome the gathering

In the presence of

Staff Members and students of Excel Engineering College



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

AGENDA

Prayer	:	BY EXCELLIANS
Welcome Address	:	Dr.M.R.MOHANRAJ HoD/Electrical,Excel Engineering College
Presidential Address	:	Dr.N.MATHAN KARTHICK Vice Chairman, Excel Group Institutions
Felicitation Address	:	Dr.K.BOMMANNA RAJA Principal, Excel Engineering College, Executive Director, Excel Technical Campus
Felicitation Address	:	Dr.S.ANBUKARUPPUSAMY Director Administration, Excel Technical Campus
Key note Address	:	Dr.C.KARTHIKEYANI Director Academics, Excel Technical Campus
Vote of Thanks	:	Mr.M.K.ANANDKUMAR Assistant Professor, Department of EEE

NATIONAL ANTHEM



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KOMARAPALAYAM - 637303

Department of Electrical and Electronics Engineering

Value Added Course

Title : Simulation software for Electrical Engineering

Course Duration : 30 Hrs.

Syllabus :

Course Objectives:

The course is intended to

1. Identify and recall the main elements of the Multisim user interface
2. Explain the purpose of capturing a circuit schematic in Multisim
3. Demonstrate the use of interactive simulation to check a basic circuit design
4. Discover the simulation results from SPICE to understand circuit behavior
5. Describe the purpose of using virtual instruments

1. Course Outcomes:

On successful completion of the course the students will be able to

CO.No	Course Outcome	Bloom's Level
CO 1	Understand the Multisim user interface	Remember
CO 2	Summarize using Multisim to capture circuit schematics	Understand
CO 3	Use interactive simulation to check circuit design	Apply
CO 4	Examine the impact of parameter changes on circuit's response in SPICE	Analyze
CO 5	Compare and contrast different virtual instruments	Analyze

Multi sim

Hours: 15

Multi Sim Environment: Design Process - Setting environment preferences - The Multi sim GUI - Schematic capture of circuits: Placing components - Wiring components -simulation and result display in Multi Sim

SPICE

Hours: 15

Spice Simulation overview -Design Environment- SPICE based simulator analysis - Real time applications

Case Study:

1. Closing the hardware design loop with Multi sim.
2. Automotive SPICE compliance in an Agile Software Development Process.



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Schedule

S.No	Description	Session
Day 01		
1.	Introduction to MultiSim	Day 01 - I
2.	Design procedures	Day 01 - II
3.	Setting MultiSim simulation environment : Capture of schematics.	Day 01 - III
4.	Simulation and result display	Day 01 - IV
Day 02		
5.	Implementation of simple circuits	Day 02 - I
6.	Work with design variants	Day 02 - II
7.	Configuring application circuits	Day 02 - III
8.	Analysis of circuits using MultiSim	Day 02 - IV
Day 03		
9.	Circuit design of Analog and Digital circuits	Day 03 - I
10.	SPICE modelling and circuit analysis	Day 03 - II
11.	Perform measurements and test on circuits	Day 03 - III
12.	Design transfer to PCB layout	Day 03 - IV
Day 04		
13.	Assessment	Day 04 - I
14.	Feedback	Day 04 - II
15.	Valedictory Function	Day 04 - III


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Department of Electrical and Electronics Engineering

Academic Year 2022-23

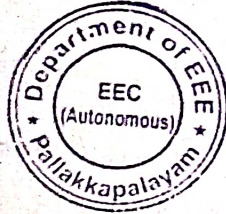
Value-added course: Simulation Software for Electrical Engineering

Student Enrolment List

S.No	Register Number	Name of the Student	Signature
1.	730921105002	KARTHIK RAJA	Karthik Raja S
2.	730921105004	VIGNESHWARAN	V. Vigneshwaran
3.	730921105301	AZEEM	A. Azem
4.	730921105302	DHAYANITHI	D. Dhayanithi
5.	730921105303	GOPAL	G. Gopal
6.	730921105304	KALAIARASAN	K. Kalaiarasan
7.	730921105305	KALPANA Chetri	K. Kalpana Chetri
8.	730921105306	KAVIARASHU.M	K. Kaviarashu M.
9.	730921105307	KAVIYARASU.R	K. Kaviyarasu R.
10.	730921105308	KOMALA	K. Komala
11.	730921105309	MAHAANAND	M. Mahaanand
12.	730921105310	MAHALINGAM	M. Mahalingam
13.	730921105311	MANOVASLOM	M. Manavasalom
14.	730921105313	NANDHINI	M. Nandhini
15.	730921105314	NAVEEN	N. Naveen
16.	730921105315	NISHANTH	N. Nishanth
17.	730921105316	SANTHOSH	S. Santhosh
18.	730921105317	SANU HANGMA SUBBA	S. Sanu Hangma Subba
19.	730921105318	SATHYA	S. Sathya
20.	730921105319	SENGOTTAIYAN.K	S. Sengottaiyan K.
21.	730921105321	SUDHANSHU SINGH	S. Sudhanshu Singh
22.	730921105322	VIJAY	V. Vijay

23.	730921105323	VISHI	<i>C. Vishi</i>
24.	730921105312	MOHAMMED NITHAL	<i>Mohammed Nithal</i>
25.	730921105320	SRIDHAR	<i>Sridhar</i>
26.	730922413001	POOVARASAN.M	<i>Poovarasan M</i>
27.	730922413002	PUGALENTHI J R	<i>Pugalenthi J R</i>
28.	730922413003	RAMACHANDRAN.S	<i>Ramachandran S</i>
29.	730922413004	RONALD JACKSON.C	<i>Ronald Jackson C</i>
30.	730922413005	SUJEETHA.B	<i>Sujeetha B</i>
31.	730922415001	ABISHEK.P	<i>Abishek P</i>
32.	730922415002	BHARATHIDASAN P	<i>Bharathidasan P</i>
33.	730922415003	ISSAKKIRAJA P	<i>Issakkiraja P</i>
34.	730922415005	NANDHINI.M	<i>Nandhini M.</i>
35.	730922415006	NANDHINI.V	<i>Nandhini V</i>
36.	730922415008	PRIYANKA B	<i>Priyanka B</i>
37.	730922415009	RAMESH.R	<i>Ramesh R</i>
38.	730922415010	SARAVANAN.S	<i>Saravanan S</i>
39.	730922415011	SWETHA SELVAM	<i>Swetha Selvam</i>

[Signature]
Program Co-coordinators



[Signature]
HOD

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Value Added Course on " Simulation Software for Electrical Engineering"

S.No	Name List	Year	Day 01 - 06.02.2023				Day 02 - 07.02.2023				Day 03 - 08.02.2023				Day 04 - 09.02.2023			
			Session I	Session II	Session III	Session IV	Session I	Session II	Session III	Session IV	Session I	Session II	Session III	Session IV	Session I	Session II	Session III	Session IV
1	KARTHIK RAJA	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	VIGNESHWARAN	II Year	/	/	/	/	/	/	/	/	/	/	/	A	A	A	A	
3	AZEEM	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	DHAYANITHI	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	GOPAL	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	KALAIARASAN	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
7	KALPANA	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
8	KAVIARASHU M	II Year	A	A	A	A	/	/	/	A	A	A	A	/	/	/	/	
9	KAVIYARASU.R	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	KOMALA	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	MAHAANAND	II Year	/	/	/	/	A	A	/	/	/	/	/	/	/	/	/	
12	MAHALINGAM	II Year	/	/	/	/	A	/	/	/	/	/	/	/	/	/	/	
13	MANOVASLOM	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
14	NANDHINI	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
15	NAVEEN	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
16	NISHANTH	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
17	SANTHOSH	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
18	SANU HANGMA SUBBA	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
19	SATHYA	II Year	A	A	A	A	/	/	/	/	/	/	/	A	A	A	A	
20	SENGOTTAIYAN.K	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
21	SUDHANSHU SINGH	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
22	VIJAY	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
23	VISU	II Year	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
24	MOHAMMED NIHAL	II Year	/	/	/	/	/	A	A	/	/	/	/	/	/	/	/	
25	SRIDHAR	II Year	/	/	/	/	A	A	A	A	/	/	A	A	/	/	/	
26	POOVARASAN.M	I EST	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
27	PUGALENTHI J R	I EST	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
28	RAMACHANDRAN.S	I EST	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
29	RONALD JACKSON.C	I EST	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
30	SUJEETHA B	I EST	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
31	ABISHEK P	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
32	BHARATHIDASAN P	I PED	/	/	A	A	/	/	/	/	/	/	/	/	/	/	/	
33	ISSAKKIRAJA P	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
34	NANDHINI.M	I PED	/	/	/	/	/	/	/	/	/	/	/	A	A	A	A	
35	NANDHINI.V	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
36	PRIYANKA B	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
37	RAMESH.R	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
38	SARAVANAN.S	I PED	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
39	SWETHA SELVAM	I PED	A	A	A	A	/	/	/	/	/	/	/	/	/	/	/	

Head of the Department
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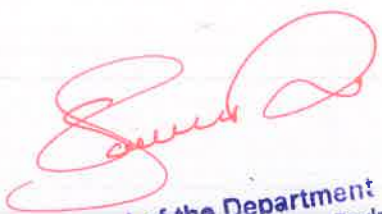



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1. Which software is used to simulate electronic circuits?
2. How the circuit schematic drawn using simulation software is tested?
3. How the active and passive components are added in the circuit using simulation software?
4. A small signal analysis in the frequency domain is termed as?
5. General purpose, open-source analog electronic simulator is known as
6. Statement used to store an estimate of DC operating point during transient analysis is
7. Graph type which is specifically designed for producing characteristic curve families for semiconductor devices is called
8. Statement which bypasses initial DC operating point analysis is
9. First commercial version of SPICE is
10. A small signal analysis which is carried out at discrete frequencies using a linearized version of the circuit is termed as
11. Components which can often be estimated more occurring using SPICE simulator is
12. List the applications of multisim
13. SPICE version 2 was written in
14. In statement ' . TRAN 1ns 100ns UIC. OP 20ns', UIC is
15. BIA program did only in


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Timestamp	Username	Total score	Roll No	Roll No [Sc Roll No [Fe
9/2/2023 12:06:04	shreya385082@gmail.com	10.00 / 20	21EEE02	-- / 0
9/2/2023 12:06:10	gopi6383739276@gmail.com	12.00 / 20	22LEE004	-- / 0
9/2/2023 12:06:33	madhujammu2004@gmail.com	13.00 / 20	22LEE012	-- / 0
9/2/2023 12:06:51	rituinihal848@gmail.com	3.00 / 20	22LEE027	-- / 0
9/2/2023 12:06:53	sathoshtniti2017@gmail.com	16.00 / 20	22LEE017	-- / 0
9/2/2023 12:07:02	this291203@gmail.com	18.00 / 20	22LEE024	-- / 0
9/2/2023 12:07:15	dayanithisakthivel2003@gmail.com	6.00 / 20	22lee002	-- / 0
9/2/2023 12:07:17	komaladevi170@gmail.com	16.00 / 20	22IEE010	-- / 0
9/2/2023 12:07:18	mavanandhini2001@gmail.com	12.00 / 20	22LEE014	-- / 0
9/2/2023 12:07:22	nisanthnias1@gmail.com	15.00 / 20	22LEE016	-- / 0
9/2/2023 12:07:35	azhamajee12@gmail.com	17.00 / 20	22LEE001	-- / 0
9/2/2023 12:07:57	sagottaiyan555@gmail.com	16.00 / 20	22LEE021	-- / 0
9/2/2023 12:08:32	vijeshwaran9445997388@gmail.com	18.00 / 20	21EEE04	-- / 0
9/2/2023 12:08:57	switharsri2333@gmail.com	18.00 / 20	22LEE028	-- / 0
9/2/2023 12:09:04	radynaveen990@gmail.com	14.00 / 20	22LEE015	-- / 0
9/2/2023 12:09:07	manovasalom2@gmail.com	9.00 / 20	22LEE013	-- / 0
9/2/2023 12:09:24	nanandanandravi@gamil.com	6.00 / 20	22LEE011	-- / 0
9/2/2023 12:09:46	kalliarasaneee1072002@gmail.com	5.00 / 20	22LEE005	-- / 0
9/2/2023 12:09:51	visu15@gmail.com	11.00 / 20	22LEE026	-- / 0
9/2/2023 12:09:51	kaviraman0530@gmail.com	7.00 / 20	22LEE008	-- / 0
9/2/2023 12:09:54	Niva2591@gmail.com	6.00 / 20	22LEE018	-- / 0
9/2/2023 12:10:01	chaitrikalpana818@gmail.com	11.00 / 20	22LEE006	-- / 0
9/2/2023 12:10:02	sathanshusingh8368@gmail.com	10.00 / 20	7.31E+11	-- / 0
9/2/2023 12:10:16	kaviraman0530@gmail.com	3.00 / 20	22LEE008	-- / 0
9/2/2023 12:10:31	gopi6383739276@gmail.com	11.00 / 20	22LEE004	-- / 0
9/2/2023 2:12:56 PM	dayanithisakthivel2003@gmail.com	6.00 / 20	7.31E+11	-- / 0


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 Komarapalayam-637303 Namakkal (Dt.), Tamilnadu.

Time Stamp	Email Address	Score	Name
3/3/2023 12:06:04	skraja385082@gmail.com	0	KARTHIK RAJA
3/3/2023 12:06:10	vigneshwaran9445997388@gmail.com	0	VIGNESHWARAN
3/3/2023 12:06:33	azeemajee12@gmail.com	0	AZEEM
3/3/2023 12:06:51	dhayanithisakthivel2003@gmail.com	0	DHAYANITHI
3/3/2023 12:06:53	gopal6383739276@gmail.com	0	GOPAL
3/3/2023 12:07:02	kalaiarasaneee1072002@gmail.com	0	KALAIARASAN
3/3/2023 12:07:15	ckalpana262@gmail.com	0	KALPANA
3/3/2023 12:07:17	kaviarashu0@gmail.com	0	KAVIARASHU.M
3/3/2023 12:07:18	kaviraman0530@gmail.com	0	KAVIYARASU.R
3/3/2023 12:07:22	komaladevi170@gmail.com	0	KOMALA
3/3/2023 12:07:35	mahaanandravi@gmail.com	0	MAHAANAND
3/3/2023 12:07:57	mahajammu2004@gmail.com	0	MAHALINGAM
3/3/2023 12:08:32	manovasalom2@gmail.com	0	MANOVASLOM
3/3/2023 12:08:57	mohannandhini2001@gmail.com	0	NANDHINI
3/3/2023 12:09:04	randynaveen990@gmail.com	0	NAVEEN
3/3/2023 12:09:07	nishanthnias1@gmail.com	0	NISHANTH
3/3/2023 12:09:24	santhoshtniti2017@gmail.com	0	SANTHOSH
3/3/2023 12:09:46	nusa2591@gmail.com	0	SANU HANGMA SUBBA
3/3/2023 12:09:51	sathyasathya75273@gmail.com	0	SATHYA
3/3/2023 12:09:51	sengottaiyan555@gmail.com	0	SENGOTTAIYAN.K
3/3/2023 12:09:54	sudhanshusingh8368@gmail.com	0	SUDHANSHU SINGH
3/3/2023 12:10:01	thiru291203@gmail.com	0	THIRUMURUGAN
3/3/2023 12:10:02	visucthm@gmail.com	0	VISU
3/3/2023 12:10:16	nihunihal848@gmail.com	0	MOHAMMED NIHAL
3/3/2023 12:10:31	sridharsri2333@gmail.com	0	SRIDHAR


Head of the Department
 Dept. of Electrical and Electronics Engineering
 Excel Engineering College (Autonomous)
 NH-544, Pallakkapalayam,
 Komarapalayam-637303 Namakkal (Dt.), Tamilnadu



Excel Engineering College (Autonomous)
Komarapalayam - 637303



CERTIFICATE
OF APPRECIATION



KARTHIK RAJA.S. II-EEE

has completed

The Value Added Course (30 Hrs) titled "**Simulation Software for Electrical Engineering**" Organized by Department of Electrical and Electronics Engineering from 06.02.2023 to 09.02.2023.

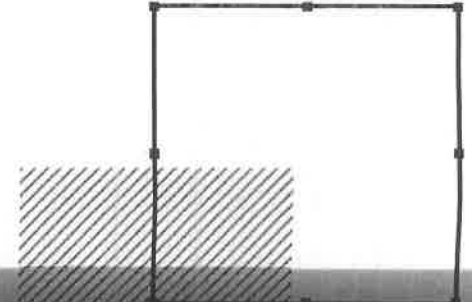
Coordinator

09.02.2023

DATE

Head - EEE

CERTIFICATE
OF COMPLETION





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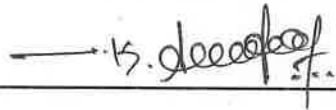
CERTIFICATE
OF APPRECIATION



SWETHA SELVAM. I-PED

has completed

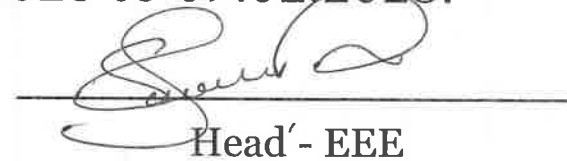
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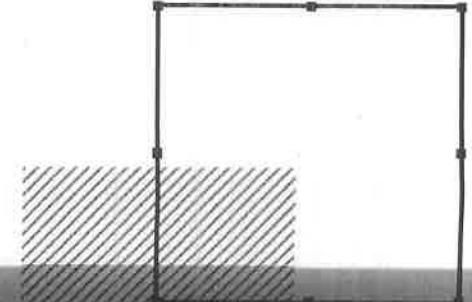
Coordinator

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DATE


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Komarapalayam - 637303



CERTIFICATE
OF APPRECIATION



PUGALENTHI.J.R. I-EST

has completed

The Value Added Course (30 Hrs) titled "**Simulation Software for Electrical Engineering**" Organized by Department of Electrical and Electronics Engineering from 06.02.2023 to 09.02.2023.

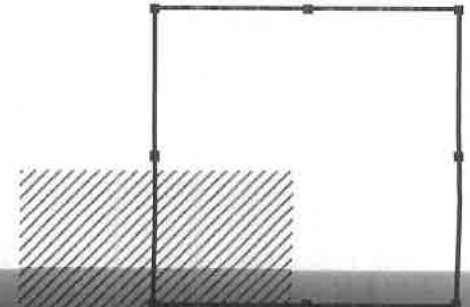
Coordinator

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DATE

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**EXCEL ENGINEERING COLLEGE
(Autonomous)**

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA (AERO,CSE, MECH,ECE), NAAC with "A+" and Recognised by UGC (2f &12B)

KOMARAPALAYAM - 637303

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2022-23**

Name of the value-added courses (with 30 or more contact hours) offered	Course Code, if any	No. of times offered during the year	Duration of course (in hours)	Number of students enrolled during the year	1.3.3 Number of students who completed the course during the year
Simulation Software for Electrical Engineering	20EEV01	1	30	40	40


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Dept. of Electrical and Electronics Engineering
Excel Engineering College (Autonomous)
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Komarapalayam-637303 Namakkal (Dt.), Tamilnadu.