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Department of Electrical and Electronics Engineering

VEMU/EEE/2019-20 Date : 06-01-2020

CIRCULAR

It is here by informed to all the students of IV EEE that there is a Workshop on **"ELECTRIC VEHICLES"** from 07-01-2020 to 13-01-2020 by Mr. Madhan Mohan,HIEE-Hyderabad. Hence all the students of IV EEE are instructed to attend the workshop without fail.

Venue : SIMULATION LAB
Time : 09:30 AM

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Copy to :

1. The Principal,
2. The In-charge of Workshop,
3. Circulating among students,
4. Display in Notice boards.

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ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2019-2020

List of Students

S.No	Roll. No	Student Name
1	164M1A0201	Akanambattu Roja
2	164M1A0202	B Pavana
3	164M1A0203	B Purushotham
4	164M1A0204	Bikkisetty Jyothirmai
5	164M1A0205	Budda Nandini
6	164M1A0206	D N Kumarvel
7	164M1A0207	Doma Sahithi
8	164M1A0208	Dommalapati Sharmila
9	164M1A0209	E Balu
10	164M1A0212	Fatima Mehereen M B
11	164M1A0213	G Poojitha
12	164M1A0216	Ganji Archana
13	164M1A0217	Gookanti Pavithra
14	164M1A0218	Gundlapalli Supritha
15	164M1A0219	H Yuvaraj
16	164M1A0220	J Joshva
17	164M1A0221	Kalavakunta Roja
18	164M1A0222	Kondasani Sindhu
19	164M1A0223	Kuntamukkala Sreedevi
20	164M1A0224	M Aliya
21	164M1A0225	Musalannagari Purushotham Reddy
22	164M1A0226	N Dilli Babu
23	164M1A0227	Nallapareddy Sudharsan Reddy N
24	164M1A0229	Pasam Sravani

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25	164M1A0230	Potukanuma Jeevitha
26	164M1A0231	Pulluru Ooha
27	164M1A0234	S N Naveen
28	164M1A0236	Saddala Hareesh
29	164M1A0238	Thalari Meshak
30	164M1A0239	Thenepalle Durga
31	164M1A0240	Tithi Teja Reddy
32	164M1A0241	Tupakula Ramesh
33	164M1A0242	V Chandini
34	164M1A0243	V Jasmin
35	164M1A0244	V T Tharun
36	164M1A0245	Vummadi Siddhartha
37	164M1A0246	A Yamuna
38	164M1A0247	Muppiri Hymavathi
39	174M5A0201	A.Gnana Sree
40	174M5A0202	A.Hemanth Rayan
41	174M5A0203	B.Jagadeesh
42	174M5A0204	D.Pooja
43	174M5A0205	J.Pavan Sai
44	174M5A0206	K.Uday Kumar
45	174M5A0207	K.Thulasi Ram

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Workshop Attendance

Workshop on "ELECTRIC VEHICLES" (07-01-2020 to 13-01-2020) – IV EEE

S. No	Roll No.	Students Name	07/01 FN	08/01 FN	09/01 FN	10/01 FN	11/01 FN	12/01 FN	Signature of the Student
1	164M1A0201	Akanambattu Roja	✓	A	✓	✓	✓	✓	Roja
2	164M1A0202	B Pavana	✓	✓	✓	✓	✓	✓	pavan
3	164M1A0203	B Purushotham	✓	✓	✓	✓	✓	✓	purush
4	164M1A0204	Bikkisetty Jyothirmai	✓	✓	✓		✓	✓	Jyothirmai
5	164M1A0205	Budda Nandini	✓	✓	✓	✓	✓	✓	nandini
6	164M1A0206	D N Kumarvel	A	✓	✓	✓	✓	A	Kumaravel
7	164M1A0207	Doma Sahithi	✓	✓	✓	✓	✓	✓	Sahithi
8	164M1A0208	Dommalapati Sharmila	✓	✓	✓	✓	✓	✓	Sharmila
9	164M1A0209	E Balu	✓	✓	✓	✓	✓	✓	Balu
10	164M1A0212	Fatima Mehereen M B	✓	✓	✓	A	✓	✓	mehereen
11	164M1A0213	G Poojitha	✓	✓	✓	✓	✓	✓	poojitha
12	164M1A0216	Ganji Archana	✓	✓	✓	✓	✓	✓	
13	164M1A0217	Gookanti Pavithra	✓	✓	✓	✓	✓	✓	pavithra
14	164M1A0218	Gundlapalli Supritha	✓	✓	✓	✓	✓	✓	Supritha
15	164M1A0219	H Yuvaraj	✓	✓	✓	✓	✓	✓	Yuvaraj
16	164M1A0220	J Joshva	✓	A	✓	✓	✓	✓	Joshva
17	164M1A0221	Kalavakunta Roja	✓	✓	✓	✓	✓	✓	Roja
18	164M1A0222	Kondasani Sindhu	✓	✓	✓	✓	A	✓	Sindhu
19	164M1A0223	Kuntamukkala Sreedevi	✓	✓	✓	✓	✓	✓	Sreedevi
20	164M1A0224	M Aliya	✓	✓	✓	✓	✓	✓	Aliya Reddy
21	164M1A0225	Musalannagari Purushotham Reddy	A	✓	✓	✓	✓	A	
22	164M1A0226	N Dilli Babu	✓	✓	✓	✓	✓	✓	Dilli Babu
23	164M1A0227	Nallapareddy Sudharsan Reddy N	✓	✓	✓	✓	✓	A	Sudharsan

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24	164M1A0229	Pasam Sravani	✓	✓	A	✓	✓	✓	Sravani
25	164M1A0230	Potukanuma Jeevitha	✓	✓	✓	✓	✓	✓	Jeevi
26	164M1A0231	Pulluru Ooha	✓	✓	✓	✓	✓	✓	Ooha
27	164M1A0234	S N Naveen	✓	✓	✓	✓	✓	✓	naveen
28	164M1A0236	Saddala Hareesh	✓	✓	✓	✓	✓	✓	Hareesh
29	164M1A0238	Thalari Meshak	A	✓	✓	✓	✓	✓	meshak
30	164M1A0239	Thenepalle Durga	✓	✓	✓	✓	✓	✓	Durga
31	164M1A0240	Tithi Teja Reddy	✓	✓	✓	✓	✓	✓	Teja
32	164M1A0241	Tupakula Ramesh	✓	✓	✓	✓	✓	✓	Ramesh
33	164M1A0242	V Chandini	✓	✓	✓	A	A	✓	Chandini
34	164M1A0243	V Jasmin	✓	✓	✓	✓	✓	✓	Jasmin
35	164M1A0244	V T Tharun	✓	✓	✓	✓	✓	✓	Tharun
36	164M1A0245	Vummadi Siddhartha	A	✓	✓	✓	✓	✓	Siddhartha
37	164M1A0246	A Yamuna	✓	✓	✓	✓	✓	✓	yamuna
38	164M1A0247	Muppiri Hymavathi	✓	✓	✓	✓	✓	✓	Hyma
39	174M5A0201	A.Gnana Sree	✓	✓	✓	✓	✓	✓	Sree
40	174M5A0202	A.Hemanth Rayan	✓	✓	A	✓	✓	A	Hema
41	174M5A0203	B.Jagadeesh	✓	✓	✓	✓	✓	✓	Jagadeesh
42	174M5A0204	D.Pooja	✓	✓	✓	✓	✓	✓	pooja
43	174M5A0205	J.Pavan Sai	A	✓	✓	✓	✓	✓	Sai
44	174M5A0206	K.Uday Kumar	✓	✓	✓	✓	✓	✓	kumar
45	174M5A0207	K.Thulasi Ram	✓	✓	✓	✓	A	A	Ram

COORDINATOR

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Department of Electrical and Electronics Engineering

ASSIGNMENT QUESTIONS

Workshop on ELECTRIC VEHICLES

(07-01-2020 to 13-01-2020)

Electric vehicles are less expensive to own and operate than conventional, internal combustion engines.

- **True**
- False

A level 1 charger is like plugging into a standard, 120-volt outlet and does not require special equipment or installation. This type of charging is also known as trickle charging.

- **True**
- False

What is a Time of Use Rate (TOU)?

- **A rate offered by some utilities to incentivize customers to use electricity during specific times, generally in low demand times**
- A rate offered by some utilities that's based on the length of time an electric vehicle is charging
- A rate offered by some utilities to disincentivize the use of electricity

Electric vehicles produce fewer emissions than conventional vehicles.

- **True**
- False

What's the difference between a plug-in hybrid and a battery electric vehicle?

- There is no difference
- A plug-in hybrid only accepts AC power, while a battery electric vehicle accepts AC and DC power
- **A plug-in hybrid can be powered by either the battery or the gasoline engine. A pure electric vehicle is powered only by the battery**

Electric vehicles can only be used as commuter vehicles because of their limited range.

- True
- **False**

What is the best-selling EV model in Minnesota?

- **Tesla Model S**
- Nissan Leaf
- Chevy Bolt
- BMW i3

What major energy corporation recently purchased EV infrastructure supplier GreenLots?

- BP
- Exxon
- **Shell**

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- Chevron

How many vehicles can a manufacturer sell before triggering the federal tax credit phase-out?

- 50,000
- 100,000
- **200,000**
- 300,000

In what year was the first car powered by an electric motor?

- 1911
- **1827**
- 1962
- 1899

An EV only needs one of the following maintenance jobs done. Which is it?

- Oil change
- Belt replacement
- New spark plugs
- **Brake pad inspections**

Which of the following is NOT a kind of DCFC plug?

- **J1772**
- CHAdeMO
- SSA/CCS
- Supercharger

What country has the most EVs per capita?

- China
- **Norway**
- Iceland
- United Arab Emirates

True or False: A hydrogen fuel cell vehicle is a type of electric vehicle.

- **True**
- False

Which of these companies is the only one WITHOUT plans for an all-electric pickup truck?

- Toyota
- GMC
- Ford
- **Ram**

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Which EV is featured in Avengers: Endgame?

- Jaguar I-Pace
- Tesla Model X
- **Audi E Tron**
- Porsche Tycan

Which of these years saw the most global EV sales?

- 2015
- 2016
- 2017
- **2018**

According to the Department of Energy, what percentage of EV charging happens at home?

- 50%
- 75%
- **80%**
- 90%

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Department of Electrical and Electronics Engineering

Workshop on **"ELECTRIC VEHICLES"**

Title	:	**ELECTRIC VEHICLES**
Date	:	07-01-2020 to 13-01-2020
Resource Person	:	Mr. Madhan Mohan,HIEE-Hyderabad
Targeted Group	:	**IV EEE**

Objective:

Electric car sales reached a record high in 2021, despite supply chain bottlenecks and the ongoing Covid-19 pandemic. Compared with 2020, sales nearly doubled to 6.6 million (a sales share of nearly 9%), bringing the total number of electric cars on the road to 16.5 million. The sales share of electric cars increased by 4 percentage points in 2021. The Net Zero Emissions by 2050 Scenario sees an electric car fleet of over 300 million in 2030 and electric cars accounting for 60% of new car sales. Getting on track with the Net Zero Scenario requires their sales share to increase by less than 6% percentage points per year.

OUTCOME:-

- 45 EEE students benefited by this workshop.
- These students understood about
  - Low maintenance cost, Lower running costs
  - Petrol and diesel use is destroying our planet
  - Electric Vehicles are easy to drive and quiet
  - Convenience of charging at home

Total duration of the course: 42 Hours

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HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)
AN ISO 9001:2015 Certified Organisation

Date: 14-01-2020

INDUSTRIAL TRAINING (INTERNSHIP) CERTIFICATE

This is to certify that Mr T Teja Reddy bearing roll number 164M1A0240 of B.Tech (Electrical and Electronics Engineering) in **VEMU INSTITUTE OF TECHNOLOGY, P. Kothakota** has undergone A Course on ELECTRIC VEHICLES From 07-01-2020 to 13-01-2020.

During the above tenure, his/her character and conduct were found to be good.

HIEE wishes him All the Best in his future endeavours.

Thanks & regards

HIEE EMPOWERING ENGINEERS PVT. LTD. HYDERABAD

Authorized Signatory
HIEE Empowering Engineers Pvt. Ltd

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HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)
AN ISO 9001:2015 Certified Organisation

Date: 14-01-2020

INDUSTRIAL TRAINING (INTERNSHIP) CERTIFICATE

This is to certify that Ms. G Poojitha bearing roll number 164M1A0213 of B.Tech (Electrical and Electronics Engineering) in **VEMU INSTITUTE OF TECHNOLOGY, P. Kothakota** has undergone A Course on ELECTRIC VEHICLES From 07-01-2020 to 13-01-2020.

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Thanks & regards

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Authorized Signatory
HIEE Empowering Engineers Pvt. Ltd

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HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)
AN ISO 9001:2015 Certified Organisation

Date: 14-01-2020

INDUSTRIAL TRAINING (INTERNSHIP) CERTIFICATE

This is to certify that Ms. B Pavana bearing roll number 164M1A0202 of B.Tech (Electrical and Electronics Engineering) in **VEMU INSTITUTE OF TECHNOLOGY, P. Kothakota** has undergone A Course on ELECTRIC VEHICLES From 07-01-2020 to 13-01-2020.

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Thanks & regards

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HIEE Empowering Engineers Pvt. Ltd

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Department of Electrical and Electronics Engineering

VEMU/EEE/2019-20 Date : 07-12-2019.

CIRCULAR

It is here by informed to all the students of II EEE that there is a Workshop on **"POWER SYSTEMS AND SOLAR PANELS"** from 09-12-2019 to 14-12-2019 by Mr. Madhan Mohan, HIEE- Hyderabad. Hence all the students of IV EEE are instructed to attend the workshop without fail.

Venue : PSS LAB
Time : 09:30 AM

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Copy to :

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Department of Electrical and Electronics Engineering

PROGRAM SCHEDULE

Title : Workshop on **"SYSTEMS AND SOLAR PANELS"**

Date : 09-12-2019 to 14-12-2019

Venue : PSS LAB

Date	Topics
09-12-2019 **DAY1**	Model development. ...
10-12-2019 **DAY2**	High performance. ...
11-12-2019 **DAY3**	Accuracy and better reliability. ...
12-12-2019 **DAY4**	Mixed-Signal simulations. ...
13-12-2019 **DAY5**	Flexibility.
14-12-2019 **DAY6**	DC analysis, AC analysis, and transient analysis

Total duration of the course : 36 Hours

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Department of Electrical and Electronics Engineering

List of Students

"WORKSHOP ON POWER SYSTEMS AND SOLAR PANELS"

09-12-2019 to 14-12-2019– **II EEE**

S. No	Roll No.	Students Name
1	174M1A0201	A Sri Durga
2	174M1A0202	Amamcharla Jyothi
3	174M1A0203	Andra Sirisha
4	174M1A0204	B Mohan Rangan
5	174M1A0205	Bathini Harichandan
6	174M1A0206	Boligarla Prasanth
7	174M1A0207	C Pavithra
8	174M1A0208	Chandrasekhar Preethi
9	174M1A0209	D Divyasree Desai
10	174M1A0210	D Suheiludeen
11	174M1A0211	Dandapalli Ravikumar
12	174M1A0212	G Bhargavi
13	174M1A0213	G Chandra Babu
14	174M1A0214	G Mohanthi
15	174M1A0215	G V Lanchana
16	174M1A0216	Jasthi Neeraja
17	174M1A0217	Jeepalem Niharika
18	174M1A0218	K C Nikhil
19	174M1A0219	K Mohammed Bilal
20	174M1A0220	K Naveen
21	174M1A0221	K Vinay
22	174M1A0222	K Vinay Kumar
23	174M1A0223	K Yamini
24	174M1A0224	Karanam Thriveni
25	174M1A0225	Kattamanchi Sai Priyanka
26	174M1A0226	Kaveti Venugopal Kishore
27	174M1A0227	Koppala Hariprasad
28	174M1A0228	Kudeti Amrutha
29	174M1A0229	Kumbhakonam Thanmayee

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30	174M1A0230	Kuncha Sateesh
31	174M1A0231	Kuntha Mukkala Reshma
32	174M1A0232	M Mahesh
33	174M1A0233	Madipalli Thejesh
34	174M1A0234	Mare Palli Poorna Chandra
35	174M1A0235	Nandhinayani Hemavathi
36	174M1A0236	Narayanappagari Selvaraj
37	174M1A0237	Neerugatti Tapan Kumar
38	174M1A0238	P Princey
39	174M1A0239	P Sony
40	174M1A0240	Panuganti Sailalitha Sri
41	174M1A0241	Pavuluru Venkatesh
42	174M1A0242	Pemma Prasanth Reddy
43	174M1A0243	Pichhiguntla Nandini
44	174M1A0244	Ponna Varaprasad
45	174M1A0245	R Sireesha
46	174M1A0246	Rallapalli Raasi
47	174M1A0247	Ramabathina Ajay Kumar
48	174M1A0248	S B Saritha Sree
49	174M1A0249	S Kavitha
50	174M1A0250	S Rasi
51	174M1A0251	Surimani Pavan Kumar
52	174M1A0252	T Aparna
53	174M1A0253	T Bharath
54	174M1A0254	Tripuraneni Chaitanya Chowdary
55	174M1A0255	V Ajay Kumar
56	174M1A0256	Velluru Lakshmi Narayana
57	174M1A0257	Vempuluru Akhil
58	174M1A0258	Yagateela Susmitha
59	184M5A0201	Cheelasani Hemasundar
60	184M5A0202	K K Vishnu Vardhan

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Department of Electrical and Electronics Engineering

Workshop Attendance

Workshop on **"POWER SYSTEMS AND SOLAR PANELS"** from 09-12-2019 to 14-12-2019 – **II EEE**

S. No	Roll No.	Students Name	09/12	10/12	11/12	12/12	13/12	14/12	Signature of the Student
			FN	FN	FN	FN	FN	FN	
1	174M1A0201	A Sri Durga	✓	✓	A	✓	✓	✓	Durga
2	174M1A0202	Amamcharla Jyothi	✓	✓	✓	✓	✓	✓	Jyothi
3	174M1A0203	Andra Sirisha	A	✓	✓	✓	✓	✓	Sirisha
4	174M1A0204	B Mohan Rangan	✓	✓	✓	✓	✓	✓	Mohan
5	174M1A0205	Bathini Harichandan	✓	✓	✓	✓	A	✓	Harichandan
6	174M1A0206	Boligarla Prasanth	✓	✓	✓	✓	✓	✓	Prasanth
7	174M1A0207	C Pavithra	A	✓	✓	✓	✓	✓	pavithra
8	174M1A0208	Chandrasekhar Preethi	✓	✓	✓	✓	✓	✓	Preethi
9	174M1A0209	D Divyasree Desai	✓	✓	✓	✓	A	✓	Divyasree
10	174M1A0210	D Suheiludeen	✓	✓	✓	✓	✓	✓	Suheiludeen
11	174M1A0211	Dandapalli Ravikumar	✓	✓	✓	✓	✓	✓	Ravikumar
12	174M1A0212	G Bhargavi	A	✓	✓	✓	✓	✓	Bhargavi
13	174M1A0213	G Chandra Babu	✓	✓	✓	✓	✓	✓	Chandrababu
14	174M1A0214	G Mohanthi	✓	✓	✓	✓	A	✓	Mohanthi
15	174M1A0215	G V Lanchana	✓	✓	✓	✓	✓	✓	Lanchana
16	174M1A0216	Jasthi Neeraja	✓	✓	✓	✓	✓	✓	Neeraja
17	174M1A0217	Jeepalem Niharika	A	✓	✓	✓	✓	✓	Niharika
18	174M1A0218	K C Nikhil	✓	✓	✓	✓	✓	✓	Nikhil
19	174M1A0219	K Mohammed Bilal	✓	✓	✓	✓	A	✓	Mohammed
20	174M1A0220	K Naveen	✓	✓	✓	✓	✓	✓	Naveen
21	174M1A0221	K Vinay	✓	✓	✓	✓	✓	✓	Vinay
22	174M1A0222	K Vinay Kumar	A	✓	✓	✓	✓	✓	Vinay
23	174M1A0223	K Yamini	✓	✓	✓	✓	✓	✓	Yamini
24	174M1A0224	Karanam Thriveni	✓	✓	✓	✓	✓	✓	Thriveni
25	174M1A0225	Kattamanchi Sai Priyanka	✓	✓	✓	✓	A	✓	Priyanka
26	174M1A0226	Kaveti Venugopal Kishore	✓	✓	✓	✓	✓	✓	Venugopal

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27	174M1A0227	Koppala Hariprasad	✓	✓	✓	✓	✓	✓	Hariprasad
28	174M1A0228	Kudeti Amrutha	✓	✓	✓	✓	✓	✓	Amrutha
29	174M1A0229	Kumbhakonam Thanmayee	✓	A	✓	✓	✓	✓	Thanmayee
30	174M1A0230	Kuncha Sateesh	✓	✓	✓	✓	✓	✓	Sateesh
31	174M1A0231	Kuntha Mukkala Reshma	✓	✓	✓	✓	✓	✓	Reshma
32	174M1A0232	M Mahesh	✓	✓	✓	✓	✓	✓	Mahesh
33	174M1A0233	Madipalli Thejesh	✓	✓	A	✓	✓	✓	Thejesh
34	174M1A0234	Mare Palli Poorna Chandra	✓	✓	✓	✓	✓	✓	Poorna
35	174M1A0235	Nandhinayani Hemavathi	A	✓	✓	✓	✓	✓	Hemavathi
36	174M1A0236	Narayanappagari Selvaraj	✓	✓	✓	✓	✓	✓	Selvaraj
37	174M1A0237	Neerugatti Tapan Kumar	✓	✓	✓	✓	✓	✓	Tapankumar
38	174M1A0238	P Princey	✓	✓	✓	A	✓	✓	Princey
39	174M1A0239	P Sony	✓	✓	✓	✓	✓	✓	Sony
40	174M1A0240	Panuganti Sailalitha Sri	✓	✓	✓	✓	✓	✓	Sailalitha
41	174M1A0241	Pavuluru Venkatesh	✓	✓	✓	✓	✓	✓	Venkatesh
42	174M1A0242	Pemma Prasanth Reddy	A	✓	✓	✓	✓	✓	Prasanth
43	174M1A0243	Pichhiguntla Nandini	✓	✓	✓	✓	✓	✓	Nandini
44	174M1A0244	Ponna Varaprasad	✓	✓	✓	✓	✓	✓	Varaprasad
45	174M1A0245	R Sireesha	✓	✓	✓	✓	✓	✓	Sireesha
46	174M1A0246	Rallapalli Raasi							
47	174M1A0247	Ramabathina Ajay Kumar	✓	✓	✓	✓	A	✓	Ajay Kumar
48	174M1A0248	S B Saritha Sree	✓	✓	✓	✓	✓	✓	Saritha Sree
49	174M1A0249	S Kavitha	✓	✓	✓	✓	✓	✓	Kavitha
50	174M1A0250	S Rasi	✓	✓	✓	✓	✓	✓	Rasi
51	174M1A0251	Surimani Pavan Kumar	✓	A	✓	✓	✓	✓	Pavankumar
52	174M1A0252	T Aparna	✓	✓	✓	✓	✓	✓	Aparna
53	174M1A0253	T Bharath	✓	✓	✓	✓	✓	✓	Bharath
54	174M1A0254	Tripuraneni Chaitanya Chowdary	✓	✓	✓	✓	A	✓	Chaitanya
55	174M1A0255	V Ajay Kumar	✓	✓	✓	✓	✓	✓	Ajay

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56	174M1A0256	Velluru Lakshmi Narayana	✓	✓	✓	✓	✓	✓	Narayana
57	174M1A0257	Vempuluru Akhil	✓	✓	✓	A	✓	✓	Akhil
58	174M1A0258	Yagateela Susmitha	A	✓	✓	✓	✓	✓	Susmitha
59	184M5A0201	Cheelasani Hemasundar	✓	✓	✓	✓	A	✓	Hemasundar
60	184M5A0202	K K Vishnu Vardhan	✓	A	✓	✓	✓	✓	Vardhan

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Power System MCQ with Answers PDF

1. A 3 -phase, 4-wire system is commonly used for
(a) primary distribution.

(b) secondary distribution.

(c) primary transmission.

(d) secondary transmission.

Answer: (b) secondary distribution.

2. The rated voltage of a 3-phase power system is given as
(a) RMS phase voltage.

(b) peak phase voltage.

(c) RMS line to line voltage.

(d) peak line to line voltage.

Answer: (c) RMS line to line voltage.

3. Which of the following is usually not the generating voltage ?
(a) 6.6 kV.

(b) 9.9 kV.

(c) 11 kV.

(d) 13.2 kV.

Answer: (b) 9.9 kV.

4. In a transmission system the feeder supplies power to
(a) transformer substations (step-up).

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(b) service mains.

(c) distributors.

(d) all of the above.

Answer: (c) distributors.

5. Feeder is designed mainly from the point of view of

(a) its current carrying capacity.

(b) voltage drop in it.

(c) operating voltage.

(d) operating frequency.

Answer: (a) its current carrying capacity.

6. Distributors are designed from the point of view of

(a) its current carrying capacity.

(b) operating voltage.

(c) voltage drop in it.

(d) operating frequency.

Answer: (c) voltage drop in it.

7. Transmission and distribution of electric power by underground system is superior to overhead system in respect of

(a) appearance and public safety.

(b) maintenance cost.

(c) frequency of faults, power failure and accidents.

(d) all of the above.

Answer: (d) all of the above.

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8. The main drawback(s) of underground system over overhead system is/are

(a) exposure to lightning.

(b) heavy initial cost.

(c) exposure to atmospheric hazards such as smoke, ice, wind etc.

(d) inductive interference between power and communication circuits.

Answer: (b) heavy initial cost.

9. The main drawback(s) of overhead system over underground system is/are

(a) underground system is more flexible than overhead system.

(b) higher charging current.

(c) surge problem.

(d) high initial cost.

Answer: (c) surge problem.

10. By increasing the transmission voltage double of its original value, the same power can be dispatched keeping the line loss

(a) equal to its original value.

(b) half of original value.

(c) double the original value.

(d) one-fourth of original value.

Answer: (d) one-fourth of original value.

11. If a fixed amount of power is to be transmitted over certain length with fixed power loss, it can be said that volume of conductor is

(a) inversely proportional to magnitude of the voltage and that of power factor of the load.

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(b) inversely proportional to square of the voltage and square of power factor of the load.

(c) proportional to square of voltage and that of power factor of the load.

(d) proportional to magnitude of the voltage only.

Answer: (b) inversely proportional to square of the voltage and square of power factor of the load.

12. For the same voltage drop, increasing the voltage of a distributor n-times

(a) reduces the x-section of the conductor by n times.

(b) increases the x-section of the conductor by n times.

(c) reduces the x-section of the conductor by n^2 times.

(d) increases the x-section of the conductor by n^2 times.

Answer: (a) reduces the x-section of the conductor by n times.

13. The volume of copper required for an AC transmission line is inversely proportional to

(a) current.

(b) voltage.

(c) pf.

(d) both (b) and (c).

Answer: (d) both (b) and (c).

14. Improving pf

(a) reduces current for a given output.

(b) increases losses in line.

(c) increases the cost of station equipment.

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Department of Electrical and Electronics Engineering

Workshop on **"POWER SYSTEMS AND SOLAR PANELS"**

Title	:	**POWER SYSTEMS AND SOLAR PANELS**
Date	:	09-12-2019 to 14-12-2019
Resource Person	:	Mr. Madhan Mohan, HIEE- Hyderabad
Targeted Group	:	**II EEE**

Objective:

A primary purpose of this lab is for you to become familiar with the use of PSpice and to learn to use it to assist you in the analysis of circuits. The software is already installed in the computer of every station. This is just an introduction to PSpice. It is your responsibility to learn its use in a more detailed way since you will be using it along the course of this semester and in the future.

OUTCOME:-

- 60 EEE students benefited by this workshop.
- These students understood about experiments in,
  - AC Sweep
  - Parametric sweep

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HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)
AN ISO 9001:2015 Certified Organisation

Date: 15-12-2019

INDUSTRIAL TRAINING (INTERNSHIP) CERTIFICATE

This is to certify that P Vara Prasad bearing roll number 174M1A0244 of B.Tech (Electrical and Electronics Engineering) in **VEMU INSTITUTE OF TECHNOLOGY, P. Kothakota** has undergone A Course on POWER SYSTEMS AND SOLAR PANELS from 09-12-2019 to 14-12-2019.

During the above tenure, his/her character and conduct were found to be good.

HIEE wishes him All the Best in his future endeavours.

Thanks & regards

HIEE EMPOWERING ENGINEERS PVT LTD HYDERABAD

Authorized Signatory
HIEE Empowering Engineers Pvt. Ltd

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HIEE EMPOWERING ENGINEERS PVT LTD (HIEE)
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Date: 15-12-2019

INDUSTRIAL TRAINING (INTERNSHIP) CERTIFICATE

This is to certify that S Pavan Kumar bearing roll number 174M1A0251 of B.Tech (Electrical and Electronics Engineering) in **VEMU INSTITUTE OF TECHNOLOGY, P. Kothakota** has undergone A Course on POWER SYSTEMS AND SOLAR PANELS from 09-12-2019 to 14-12-2019.

During the above tenure, his/her character and conduct were found to be good.

HIEE wishes him All the Best in his future endeavours.

Thanks & regards

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Department of Electrical & Electronics Engineering

In Association With

APSSDC

WORKSHOP on

"WORKSHOP ON PLC"

DURATION: 03-02-2020 TO 08-02-2020

Mr. M.Murali	Dr. D. Chandra Sekhar	Dr. Naveen Kilari	Dr. K.Chandra Sekhar Naidu
Coordinator	HOD-EEE	Principal	Chairman

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VEMU/EEE/2019-20

Date : 01-02-2020

CIRCULAR

It is here by informed to all the students of III EEE that there is a "**Workshop on PLC**" from 03-02-2020 to 08-02-2020 by "Mr.Ch.Srihari & Mr.P.Sandeep Kumar, Trainer cum Developer, PLC Team, APSSDC". Hence all the students of II EEE are instructed to attend the workshop without fail.

Venue : Power Electronics Lab
Time : 09:30 AM

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Copy to :

1. The Principal,
2. The In-charge of Workshop,
3. Circulating among students,
4. Display in Notice boards.

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Department of Electrical and Electronics Engineering

WORKSHOP ON "PLC - WORKSHOP"

Title : **PLC - WORKSHOP**

Date : **03/02/2020 to 08/02/2020**

Venue : IT Lab

Date	Topics
03/02/2020 DAY1	Python Programming
04/02/2020 DAY2	Programs with Conditional Statements
05/02/2020 DAY3	Programs with Data structures
06/02/2020 DAY4	Programs with Functions
07/02/2020 DAY5	Programs with Expressions
08/02/2020 DAY6	Programs with Tuples

Total duration of the course : 36 Hours

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List of Students

"WORKSHOP ON PLC" (03-02-2020 to 08-02-2020) – II EEE

S. No	Roll No.	Students Name
1	184M1A0201	A Mounish Kumar
2	184M1A0202	A Poojitha
3	184M1A0203	A S Hemagiri
4	184M1A0207	Bellam Haritha
5	184M1A0208	Bhukya Kalpana
6	184M1A0209	D Devi
7	184M1A0210	Dana. Vahitha
8	184M1A0211	Doma Poornima
9	184M1A0212	Donadhula Ramya Kala
10	184M1A0213	Guduru Sudheer Babu
11	184M1A0214	J Venugopal
12	184M1A0215	Jp. Susmitha
13	184M1A0216	K Bhavana
14	184M1A0217	K Charantheja
15	184M1A0218	K Charishma
16	184M1A0219	K Harika
17	184M1A0220	K Rishi Reddy
18	184M1A0221	K Umaesh Chand
19	184M1A0222	K Yamini
20	184M1A0223	Kattamanchi Likitha
21	184M1A0224	Kattipalem Durga Prasad
22	184M1A0225	Kommiri Hemalatha
23	184M1A0226	Kotarupalli Nandeeswar Harika
24	184M1A0227	Kummari Ravi
25	184M1A0228	Kuruva Harish Kumar
26	184M1A0229	Kuruva Vijaykumar
27	184M1A0230	M Anurag Sagar
28	184M1A0231	Madiri Anil Kumar
29	184M1A0232	Mallela Gnanendra

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31	184M1A0234	Mohan Sharath Kumar
32	184M1A0235	N Manjunath
33	184M1A0236	N Shalini
34	184M1A0238	P Lasya
35	184M1A0239	P Vasavi
36	184M1A0240	Pagadolla Pavan Kumar
37	184M1A0242	Pandigunta Jaya Sree
38	184M1A0243	Pasam Gunasekhar
39	184M1A0244	Pedda Kuruva Siva Prasad
40	184M1A0245	Peramadugu Durga
41	184M1A0246	Prathapaneni Uma Chowdary
42	184M1A0247	Ravuri Vamsi Krishna
43	184M1A0248	S Mounusha
44	184M1A0249	S P Bharath
45	184M1A0250	S Rahul
46	184M1A0251	Sunku Venkata Lavanya Kumari
47	184M1A0252	T Manisha
48	184M1A0253	Telagamchetty Gowtham
49	184M1A0254	Thota Shobharani
50	184M1A0255	V Nikitha
51	184M1A0256	V Sangeetha
52	184M1A0257	Vallepu Mahesh
53	184M1A0258	Vaseelu Sai Ganesh
54	184M1A0259	Veluri Indumathi
55	194M5A0201	Bagadi Mohan Krishna
56	194M5A0202	Chekuri Bhavya
57	194M5A0203	Gandham Pavan Kumar
58	194M5A0204	R Sakthivel
59	194M5A0205	Satam Rajesh
60	194M5A0206	Thumburu Dinesh

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Workshop Attendance

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S. No	Roll No.	Students Name	03/02 FN	03/02 AN	04/02 FN	04/02 AN	05/02 FN	05/02 AN
1	184M1A0201	A Mounish Kumar	P	P	P	P	A	A
2	184M1A0202	A Poojitha	P	P	A	A	P	P
3	184M1A0203	A S Hemagiri	P	P	P	P	P	P
4	184M1A0207	Bellam Haritha	P	P	P	P	P	P
5	184M1A0208	Bhukya Kalpana	P	P	P	P	P	P
6	184M1A0209	D Devi	A	A	P	P	P	P
7	184M1A0210	Dana. Vahitha	P	P	P	P	A	A
8	184M1A0211	Doma Poornima	P	P	A	A	P	P
9	184M1A0212	Donadhula Ramya Kala	P	P	P	P	A	A
10	184M1A0213	Guduru Sudheer Babu	P	P	P	P	P	P
11	184M1A0214	J Venugopal	P	A	A	P	P	P
12	184M1A0215	Jp. Susmitha	P	P	P	P	P	P
13	184M1A0216	K Bhavana	P	P	P	P	A	A
14	184M1A0217	K Charantheja	P	P	P	P	P	P
15	184M1A0218	K Charishma	P	P	A	A	P	P
16	184M1A0219	K Harika	P	P	P	P	P	P
17	184M1A0220	K Rishi Reddy	P	P	P	P	P	P
18	184M1A0221	K Umaesh Chand	A	A	P	P	P	P
19	184M1A0222	K Yamini	P	P	P	P	A	A
20	184M1A0223	Kattamanchi Likitha	P	P	A	A	P	P
21	184M1A0224	Kattipalem Durga Prasad	P	P	P	P	P	P
22	184M1A0225	Kommiri Hemalatha	P	P	P	P	P	P
23	184M1A0226	Kotarupalli Nandeeswar Harika	A	A	P	P	P	P
24	184M1A0227	Kummari Ravi	P	P	P	P	P	P
25	184M1A0228	Kuruva Harish Kumar	P	P	P	P	P	P
26	184M1A0229	Kuruva Vijaykumar	P	P	A	A	P	P
27	184M1A0230	M Anurag Sagar	P	P	P	P	A	A
28	184M1A0231	Madiri Anil Kumar	A	A	P	P	P	P
29	184M1A0232	Mallela Gnanendra	P	P	P	P	P	P
30	184M1A0233	Miriyala Mohith Kumar	P	P	A	A	P	P
31	184M1A0234	Mohan Sharath Kumar	P	P	P	P	P	P

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32	184M1A0235	N Manjunath	P	P	P	P	P	P	Manjunath
33	184M1A0236	N Shalini	P	P	P	P	P	P	Shalini
34	184M1A0238	P Lasya	A	A	P	P	P	P	Lasya
35	184M1A0239	P Vasavi	P	P	A	A	P	P	Vasavi
36	184M1A0240	Pagadolla Pavan Kumar	A	A	P	P	P	P	Pavan
37	184M1A0242	Pandigunta Jaya Sree	P	P	P	P	P	P	Jayasree
38	184M1A0243	Pasam Gunasekhar	P	P	A	P	P	P	Gunasekhar
39	184M1A0244	Pedda Kuruva Siva Prasad	P	P	P	P	A	A	Siva
40	184M1A0245	Peramadugu Durga	A	A	P	P	A	A	Durga
41	184M1A0246	Prathapaneni Uma Chowdary	P	P	P	P	P	P	Uma
42	184M1A0247	Ravuri Vamsi Krishna	P	P	A	A	P	P	Vamsi
43	184M1A0248	S Mounusha	A	A	P	P	P	P	Mounusha
44	184M1A0249	S P Bharath	P	P	A	A	P	P	Bharath
45	184M1A0250	S Rahul	P	P	P	P	A	A	Rahul
46	184M1A0251	Sunku Venkata Lavanya Kumari	P	P	P	P	A	A	Lavanya
47	184M1A0252	T Manisha	P	P	P	P	P	P	Manisha
48	184M1A0253	Telagamchetty Gowtham	P	P	P	P	P	P	Gowtham
49	184M1A0254	Thota Shobharani	A	A	P	P	P	P	Shobharani
50	184M1A0255	V Nikitha	P	P	P	P	P	P	Nikitha
51	184M1A0256	V Sangeetha	P	P	P	P	P	P	Sangeetha
52	184M1A0257	Vallepu Mahesh	P	P	P	P	P	P	Sai Ganesh
53	184M1A0258	Vaseelu Sai Ganesh	P	P	A	A	P	P	Sai Ganesh
54	184M1A0259	Veluri Indumathi	P	P	P	P	A	A	Indumathi
55	194M5A0201	Bagadi Mohan Krishna	P	P	P	P	P	P	Mohan
56	194M5A0202	Chekuri Bhavya	A	A	P	P	P	P	Bhavya
57	194M5A0203	Gandham Pavan Kumar	P	P	P	P	P	P	Pavan
58	194M5A0204	R Sakthivel	P	P	A	A	P	P	Sakthivel
59	194M5A0205	Satam Rajesh	P	P	P	P	P	P	Rajesh
60	194M5A0206	Thumburu Dinesh	P	P	P	P	A	A	Dinesh

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32	184M1A0235	N Manjunath	P	P	P	P	P	P	Manjunath
33	184M1A0236	N Shalini	P	P	P	P	P	P	Shalini
34	184M1A0238	P Lasya	A	A	P	P	P	P	Lasya
35	184M1A0239	P Vasavi	P	P	A	A	P	P	Vasavi
36	184M1A0240	Pagadolla Pavan Kumar	A	A	P	P	P	P	Pavan
37	184M1A0242	Pandigunta Jaya Sree	P	P	P	P	P	P	Jayasree
38	184M1A0243	Pasam Gunasekhar	P	P	A	P	P	P	Gunasekh
39	184M1A0244	Pedda Kuruva Siva Prasad	P	P	P	P	A	A	Siva
40	184M1A0245	Peramadugu Durga	A	A	P	P	A	A	Durga
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53	184M1A0258	Vaseelu Sai Ganesh	P	P	A	A	P	P	Sai Ganesh
54	184M1A0259	Veluri Indumathi	P	P	P	P	A	A	Indumathi
55	194M5A0201	Bagadi Mohan Krishna	P	P	P	P	P	P	Mohan
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57	194M5A0203	Gandham Pavan Kumar	P	P	P	P	P	P	Pavan
58	194M5A0204	R Sakthivel	P	P	A	A	P	P	Sakthivel
59	194M5A0205	Satam Rajesh	P	P	P	P	P	P	Rajesh
60	194M5A0206	Thumburu Dinesh	P	P	P	P	A	A	Dinesh

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Workshop Attendance

"WORKSHOP ON PLC" (03-02-2020 to 08-02-2020) – II EE

S. No	Roll No.	Students Name	06/02 FN	06/02 AN	07/02 FN	07/02 AN	08/02 FN	08/02 AN
1	184M1A0201	A Mounish Kumar	P	P	P	P	P	P
2	184M1A0202	A Poojitha	A	A	P	P	P	P
3	184M1A0203	A S Hemagiri	P	P	P	P	P	P
4	184M1A0207	Bellam Haritha	P	P	P	P	P	P
5	184M1A0208	Bhukya Kalpana	P	P	A	A	P	P
6	184M1A0209	D Devi	P	P	P	P	P	P
7	184M1A0210	Dana. Vahitha	P	P	P	P	P	P
8	184M1A0211	Doma Poornima	P	P	P	P	A	A
9	184M1A0212	Donadhula Ramya Kala	P	P	P	P	P	P
10	184M1A0213	Guduru Sudheer Babu	P	P	P	P	P	P
11	184M1A0214	J Venugopal	A	A	P	P	P	P
12	184M1A0215	Jp. Susmitha	P	P	P	P	P	P
13	184M1A0216	K Bhavana	P	P	P	P	P	P
14	184M1A0217	K Charantheja	P	P	P	P	P	P
15	184M1A0218	K Charishma	P	P	P	P	P	P
16	184M1A0219	K Harika	P	P	P	P	P	P
17	184M1A0220	K Rishi Reddy	P	P	P	P	A	A
18	184M1A0221	K Umaesh Chand	P	P	P	P	P	P
19	184M1A0222	K Yamini	P	P	A	A	P	P
20	184M1A0223	Kattamanchi Likitha	P	P	P	P	P	P
21	184M1A0224	Kattipalem Durga Prasad	P	P	P	P	P	P
22	184M1A0225	Kommiri Hemalatha	P	P	P	P	P	P
23	184M1A0226	Kotarupalli Nandeeswar Harika	A	A	P	P	P	P
24	184M1A0227	Kummari Ravi	P	P	P	P	P	P
25	184M1A0228	Kuruva Harish Kumar	P	P	P	P	P	P
26	184M1A0229	Kuruva Vijaykumar	P	P	P	P	P	P
27	184M1A0230	M Anurag Sagar	P	P	A	A	P	P
28	184M1A0231	Madiri Anil Kumar	P	P	P	P	P	P
29	184M1A0232	Mallela Gnanendra	P	P	P	P	A	A
30	184M1A0233	Miriyala Mohith Kumar	P	P	P	P	P	P
31	184M1A0234	Mohan Sharath Kumar	P	P	P	P	P	P
32	184M1A0235	N Manjunath	P	P	P	P	P	P

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35	184M1A0239	P Vasavi	A	A	P	P	P	P	Vasavi
36	184M1A0240	Pagadolla Pavan Kumar	P	P	P	P	P	P	Pavan
37	184M1A0242	Pandigunta Jaya Sree	P	P	P	P	P	P	Jayasree
38	184M1A0243	Pasam Gunasekhar	P	P	P	P	P	P	Gunasekh
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59	194M5A0205	Satam Rajesh	P	P	P	P	P	P	Rajesh
60	194M5A0206	Thumburu Dinesh	P	P	P	P	P	P	Dinesh

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ASSIGNMENT QUESTIONS "PLC WORKSHOP"

(03-02-2020 to 08-02-2020)

1). The programmable logic controllers are used in _____

- Manufacturing
- Automation
- Both a and b
- None of the above

2). What are the components that make the programmable logic controller work?

- Input and output module
- CPU
- Power supply
- All of the above

3). The programmable logic controller is classified into _____

- One
- Two
- Three
- Four

4). In fixed programmable logic controller _____

- Input is fixed
- Output is fixed
- Both a and b
- None of the above

5). The PLC's can be programmed in _____

- Ladder logic, structured text

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- Instruction list, Functional block diagram
- Sequential function chart
- All of the above

6). In modular programmable logic controller _____

- Input is fixed
- Output is fixed
- Both a and b
- None of the above

7). What are the types of programmable logic controllers?

- Fixed, uniform PLC
- Modular, uniform PLC
- Fixed and Modular PLC
- None of the above

8). The components that make PLC works can be divided into _____ core areas

- One
- Two
- Three
- Four

9). How many operation steps does the programmable logic controller have?

- One
- Two
- Three
- Four

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10). In PLC operation _____ checks the status at the input side

- Input scan
- Output scan
- Program scan
- None of the above

11). In PLC operation _____ retrieves the data into an output module

- Input scan
- Output scan
- Program scan
- None of the above

12). Before PLC's was created many industries used _____

- Relays
- Capacitors
- Resistors
- None of the above

13). Which is the first PLC model?

- PLC 084
- PLC 085
- PLC 086
- None of the above

14). The relays consist of _____

- Control circuit
- Load circuit
- Both a and b
- None of the above

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15). CCTV cameras is an example for _____ automation

- Building automation
- Office automation
- Scientific automation
- Industrial automation

16). The control logic in a programmable logic controller can be programmed by _____

- FBD , ladder logic
- Sequential logic
- Structured text
- All of the above

17). Who invented the Programmable Logic Controller (PLC)?

- Jonas Wenstrom
- Dick Morley
- Thomas Davenport
- None of the above

18). The programmable logic controllers are used in _____

- Glass and paper industry
- Process automation plants
- Cement manufacturing
- All of the above

19). In modular type PLC, the PLC's are classified into _____

- Relay output PLC

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- Transistor output PLC
- Triac output PLC
- All of the above

20). The programmable logic controllers are classified into _____ according to physical size in modular type PLC

- Mini PLC, Micro PLC
- Micro PLC, Nano PLC
- Nano PLC, Mini PLC, Macro PLC
- None of the above

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"WORKSHOP ON PLC"

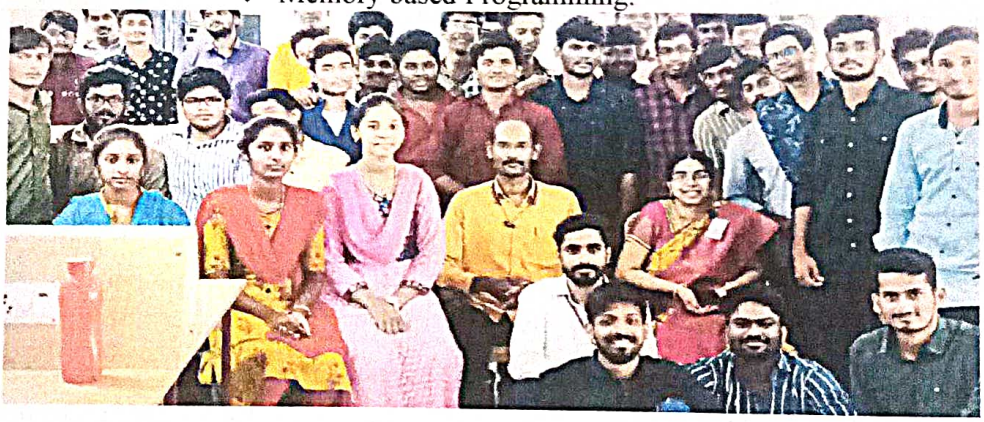
Title	:	**Workshop on PLC**
Date	:	**03-02-2020 to 08-02-2020**
Resource Person	:	**Mr.Ch.Srihari & Mr.P.Sandeep Kumar**
Targeted Group	:	**II EEE**

Objective:-

The main objective of this workshop is to give hands on training to the students in the area of PLC. PLC is an industrial computer that monitors inputs and outputs to make decisions based on based on the program stored to the PLC's memory. The use of PLC's help to reduce human decision-making efforts to gain higher efficiency. PLCs are used in industrial automation to increase reliability, system stability and performance, minimizing the need for human operators and the chances of human error. PLCs can be described as small industrial computers with modular components designed to automate control processes. PLCs are the controllers behind almost all modern industrial automation. Programmable Logic Controllers (PLC) normally has a fixed memory map and address depending on its programming capability. Conversely, a Programmable Automation Controllers permits tag naming, giving users a chance to characterize and define the data categories as they program.

OUTCOME:-

- 60 EEE students benefited by this workshop.
- These students understood about experiments in,
  - Basics of ladder Programming,
  - Different Logic functions,
  - Alarm system with LED and
  - Memory based Programming.



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Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)

Skill AP
APSSDC

Certificate of Participation

Cert.No. SDC - PLC-156 **Regd Id :** 184M1A0222

This is to certify that Mr./Ms./Mrs. Y YAMINI

of VEMU Institute of Technology has successfully

participated Training Program on PLC WORKSHOP

held from 03/02/2020 to 08/02/2020

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Principal (or) HOD

Dr. Ravi K Gujjula
Chief General Manager (Technical)
APSSDC

Sri N. Bangara Raju
Managing Director
APSSDC

Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)

Skill AP
APSSDC

Certificate of Participation

Cert.No. SDC - PLC-189 **Regd Id :** 184M1A0201

This is to certify that Mr./Ms./Mrs. A MOUNISH KUMAR

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Chief General Manager (Technical)
APSSDC

Sri N. Bangara Raju
Managing Director
APSSDC

Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skills Development & Training, Govt. of Andhra Pradesh)

Skill AP
APSSDC

Certificate of Participation

Cert.No. SDC - PLC-221

Regd Id : 184M1A0251

This is to certify that Mr./Ms./Mrs. S VENKATA LAVANYA KUMARI

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Chief General Manager (Technical)
APSSDC

Sri N. Bangara Raju
Managing Director
APSSDC