

From

Mr.D.Manoj,
Assistant Professor/EEE,
SSMIET,
Dindigul.

To

The Principal,
SSMIET
Dindigul.

Through,

The HOD
Department of EEE
SSMIET,
Dindigul

Respected Sir,

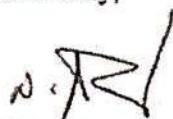
Sub: Seeking permission to conduct five days value added program on "Industrial Automation" -reg.,

As the department of EEE is going to conduct a Five days value added program on Industrial Automation from 18.10.2021 to 23.10.2021 for final year students by Shree Technologies (A Franchisee of Prolific Systems & Technologies Pvt Ltd. Coimbatore).so we are seeking permission to conduct the program. Hereby, I kindly request you to do the needful regarding this.

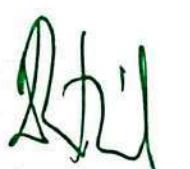
Note: Entire training fee will be paid by our students

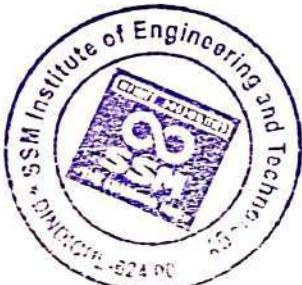
Thanking you

Yours truly,


(D. Manoj)


PRINCIPAL


Dr. D. SENTHIL KUMARAN, M.E., Ph.D., [EUS]
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.




HOD/EEE



SSM Institute of Engineering and Technology
sindalagundu post, Dindigul-624 002, Tamilnadu, ph: 051 2-46600
(Approved by AICTE, Affiliated to Anna University, Chennai Accredited by NAAC)

Department of Electrical and Electronics Engineering
Organizes
Six days Technology Training Program on
" Industrial Automation "
For the IV year students of EEE

from (18.10.2021 to 23.10.2021)

Trained by

Shree Technologies Private Limited, Coimbatore

Co-ordinators

Mr.D.Manoj, AP/EEE
Mr.P.Siva Subramanian, AP/EEE

HoD

Dr.C.Mohanbabu

Principal

Dr.D.Senthil Kumaran

All are Invited



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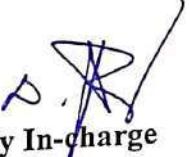
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Dindigul-Palani Highway, Dindigul-624002

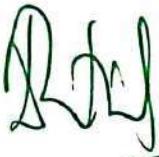
CIRCULAR

14/10/2021

This is to inform that five days training program on **INDUSTRIAL AUTOMATION** is going to conduct for IV year EEE students from 18.10.2021 to 23.10.2021, by Shree Technologies private limited, Coimbatore. All the students are informed to attend and enrich your knowledge.


Faculty In-charge


HOD EEE


Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.),
Palani Road, Dindigul - 624 002.





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Sindalagundu post, Dindigul-624002.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ATTENDANCE HANDS ON TRAINING ON INDUSTRIAL AUTOMATION

D.D.D
D.SEETHIL KUMARAN, M.E.,Ph.D.,(NIT)
Prin. No. 21
SUS Institute of Engineering and Technology
Zuttipattu Village, Sivagangai - 600 102
EN-13 Road, Dindigul - 624 001

S. No.	Reg.no.	Student Name	18.10.21		20.10.21		21.10.21		22.10.21		23.10.21	
			FN	AN								
22	922118105023	SABAPATHIS	s.sly									
23	922118105024	SABARIVASAN T	T.Libet									
24	922118105026	SHANKAR GANESH G	G.Shan									
25	922118105027	STERLIN INFANT DASS W	W.Lest.									
26	922118105029	SURYAJ	J.Surya									
27	922118105030	THANUJ K	←	NA	—	—	—	—	—	→	—	—
28	922118105031	THAVA HARISH P	H.P									
29	922118105033	VIGNESHWARAN K	K.Vign									
30	922118105034	VISWAKSHENAN J	J.Viswak									
31	922118105301	GOPALAKRISHNAN L	L.Gopala									
32	922118105302	KARTHICK S	S.Karthick									
33	922118105303	MARIA LEO ARUN A	←	NA	—	—	—	—	—	—	—	—
34	922118105305	MUKESH B	Mukesh.									
35	922118105306	NAVANEETHA PANDIAN P	P.Naveen									
36	922118105307	PRAVINKANTH K	P.Kant									

S.R
Faculty Incharge

HOD /EEE



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Principal
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Palani Road, Dindigul 624 002



Topics Covered

➤ Programmable Logic Controllers (PLC)- Advance

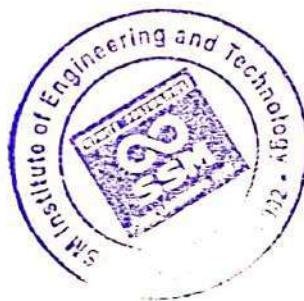
Introduction to PLC

Topic	Mode
➤ Introduction to PLC hardware and role in automation	Presentation and physical observations
➤ Architectural Evolution of PLC	Practical demonstration on hardware
➤ Introduction to the field devices attached to PLC	Practical on PLCs
➤ PLC Fundamentals – (Block diagram of PLC's)	Practical on PLCs
➤ Detail information about PLC components <ul style="list-style-type: none"> ○ Power supply, CPU, I/Os, Communication bus 	Practical on PLCs
➤ Various ranges available in PLC's	Practical on PLCs
➤ Types of Inputs & outputs / Source Sink Concepts	Practical on PLCs
➤ Wiring of the I/O devices	Practical on PLCs
➤ Concept of flags	Practical on PLCs
➤ Scan cycle execution	Practical on PLCs

Operation and Maintenance of PLC

Topic	Mode
➤ Setting up PLCs / Connecting CPU, I/O modules, Rack, Backplane and Communication bus	Practical – Assembling PLC
➤ Connecting Field devices to PLCs I/Os	Practical –Physical wiring
➤ Installing and to starting the programming terminals	Practical – Installation of software
➤ Identifying the status of PLC and communication bus	Practical on PLCs
➤ Fault detection and error handling	Practical on PLCs
➤ Forcing of the I/O's	Practical on Software
➤ Back up of the programs and reloading	Practical on PLCs
➤ CPU, I/O module replacements	Practical on PLCs

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Supervisory Control & Data Acquisition Software (Wonder ware InTouch 10.0)

Topics Covered

- Applications of SCADA software
- Different packages available with I/O structure
- Features of SCADA software
- Creating a new SCADA application
- Creating Database of Tags
- Creating & Editing graphic display with animation
- ✓ Data Entry
- ✓ Start Stop command
- ✓ Analog entry
- ✓ Sizing,
- ✓ Movement,
- ✓ Blinking,
- ✓ Visibility, Filling
- Trending
 - ✓ Creating & Accessing Real-time
 - ✓ Creating & Accessing Historical Trends
- Creating and Accessing Alarms
- Creating and Accessing Events
- Writing logic through script
- Window script
- Application script
- Writing script on industrial application
- Bottle filling plant
- Process automation plant
- Connectivity with the different hardware
 - ✓ Communication protocols
 - ✓ Communication with PLC
 - ✓ Connectivity between software
- Troubleshooting the application
 - ✓ Fault diagnostics and error handling
 - ✓ Sorting communication problems

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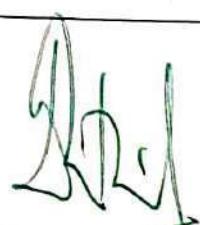


Programmable Logic Controllers (PLC) –Delta PLC

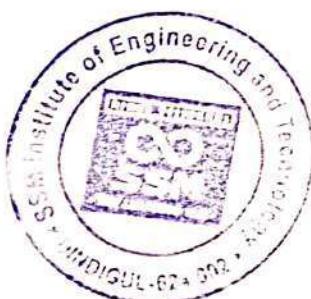
Topics Covered

Programming / Project Development

Topic	Mode
➤ SIMATIC S7 PLC Functionalities ➤ Setting up Delta PLC hardware	Practical on PLC's
➤ Programming software <ul style="list-style-type: none"> ▪ PLC program structure in delta ▪ The instruction set of WPL Soft ▪ Parameters, functions and tools 	Practical – PLC programming software
➤ CPU configuration, setting parameters and application of several I/O cards using the software	Practical – PLC programming software
➤ Addressing Concepts in Delta PLC's ➤ Detail information about Organizational Blocks, Function Block, Functions, System Function Block, System Function, Data block	Practical – PLC programming software
➤ Creating and Editing PLC programs ➤ Introduction to Bit Byte and Word Concept	Practical – PLC programming software
➤ Programming instructions arithmetic and logical <ul style="list-style-type: none"> ▪ Load /and /or/out / and Read / Write ▪ Compare / Add / Sub /And /Or – Blocks ▪ Leading edge / trailing edge instructions ▪ MOVE block application 	Practical – PLC programming software
➤ Programming instructions arithmetic and logical <ul style="list-style-type: none"> ▪ Timer Blocks programming ▪ Counter Block programming ▪ Comment functions ▪ Comments in the PLC programs ▪ Handling Analog I/Ps 	Practical – PLC programming software



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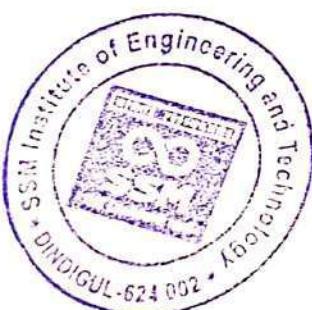


VFD – Variable Frequency Drives

Variable Speed Drives

- Introduction to Ac Drives
- Selection Criteria Of Drives
- Configuration Of Parameter
- Remote And Local Operation
- Communication With PLC/SCADA software
- Troubleshooting
- Case Study And Different Applications Of Drives In The Industry

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added Course Summary (2020-2021)

Course Name : Industrial Automation
Course Duration : 40 Hours
Year offered : IV year students -2020-2021
Course Instructors : Mr. D. Manoj
Assistant professor /EEE

Course Outcome: The student would be able to apply the tools and techniques of industrial Automation and able to program and control the PLC platform.

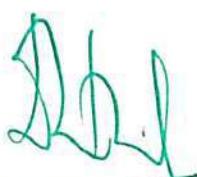
Course Type : Self Framed / Collaboration with Industry

Assessment Mode

Attendance : 40 Hours
Number of participants : 32
Scheme of Exam : MCQ offline



Course Coordinator



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SSM Institute of Engineering and Technology
Kuttathubatti Village Sindhalajur
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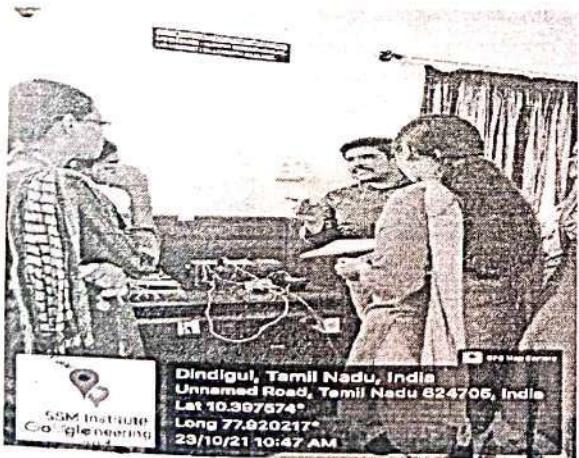

HoD

SSM Institute of Engineering and Technology, Dindigul -02.
Department of Electrical and Electronics Engineering

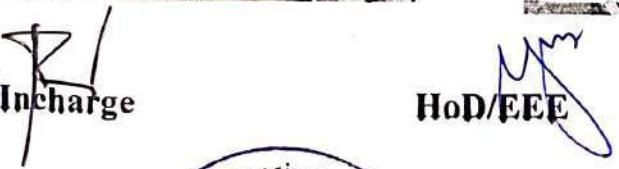
Value added course on Industrial automation

23.10.2021

The value-added course on Industrial automation was organized and conducted by the Department of EEE for IV year students from 18.10.2021 to 23.10.21. Totally 32 students attended this course. The course covered topics including Operation and Maintenance of PLC ,SCADA, Fault detection and error handling, variable Speed Drives, etc. The resource persons is Er.K.Ilanchezhian, Technical Manager, Shree Technologies pvt. Ltd, Coimbatore, Assessment test was conducted and feedback from students collected.



Faculty Incharge

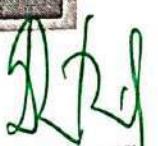


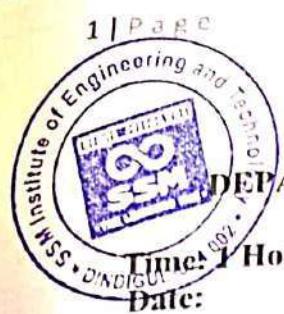
HoD/EEE



Principal

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**SHREE TECHNOLOGIES A FRANCHISEES OF
PROLIFIC SYSTEMS AND TECHNOLOGIES P LTD,
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM**

maximum: 50 marks

PART-A (20 X 1=20MARKS)

1. Which Programming Language is commonly used in PLC?

- a) C++ b) Ladder c) C d) Java

2. Which One of the Following Communication Cable is used in PLC?

- a) DH-485 b) RS-485 c) RS-232 d) RJ45

3. "Download" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

4. "Upload" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

5. Which one of the following is not associated with AB PLC Timer?

- a) Preset b) Accumulator c) Binary Memory d) Time Base

6. Which Coil Permits the Supply when it is in ON state.

- a) Normally OPEN b) Normally CLOSE

7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0 b) I: 0/0 c) X0 d) 1I

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0 b) Y:0.0 c) Y0

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Principal

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Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

9. Which one of the following belongs to Timer address in AB PLC?

- a) T0
- b) T4:0
- c) R0
- d) D0

10. Which Coil Doesn't Permits the Supply when it is in ON state.

- a) Normally OPEN
- b) Normally CLOSE

11. Which of the following Bit Activates When the Time delay reach Preset Value?

- a) Done Bit
- b) Timer Timing Bit
- c) Enable Bit

12. Accumulator is Used to in Timer.

- a) Display the Changing values
- b) Set the Time Value
- c) Choosing the time base
- d) Address Assigning

13. Which One of the Following is Used to "Set the Time Value" in timer ?

- a) Preset
- b) Accumulator
- c) Time Base
- d) Address

14. An example of discrete (digital) control is:

- a) Varying the volume of a music system
- b) Turning a lamp ON or OFF
- c) Varying the brightness of a lamp
- d) Controlling the speed of a motor

15. One of the following is an input device.

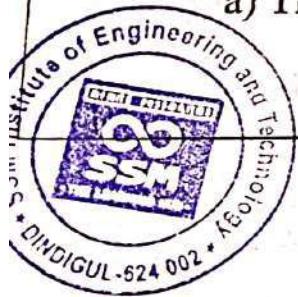
- a) Motor
- b) Light
- c) Valve
- d) Sensor

16. PLC stands for programmable logo controller.

- a) True
- b) False
- c) None of the above

17. In a PLC "I:0/0" is used to denote output and "O:0/0" is used for input.

- a) True
- b) False
- c) None of the above



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Kuttathupatti, Palani, Dindigul, Tamil Nadu - 624 002.
M.Tech., Ph.D., (NUS)

18. Lights, lamps, motors are connected to:

- a) Analog output
- b) Digital output
- c) Analog input
- d) Digital input

19. What is mean by SCADA?

20. Which software used in scada?

PART-B (5 X 2= 10 MARKS)

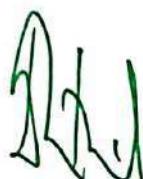
(Answer all Questions)

1. Draw the Ladder Diagram for EX-OR Gate?
2. Draw the Ladder Diagram for AND Gate?
3. Draw the Ladder Diagram For DOL Starter?
4. List the Name of Programming Software, Communication Software and Simulation Software for Allen Bradley PLC?
5. Difference between Electrical and Electronics?

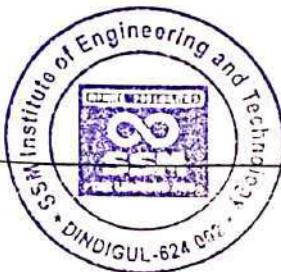
PART-C (2 X 10=20MARKS)

(Answer all Questions)

1. What is meaning by Automation and Its Types and Its Application?
2. a) If a Switch is Pressed , Light A and Light B ON.
If the Switch is Released, Light A off, Light B ON.
- b) If a switch is ON, after 5 sec. lamp A- On,
After 10 sec. Lamp B- On, After 15 sec. Lamp C-On.



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

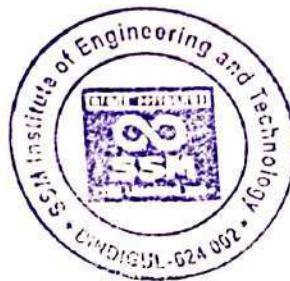
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ASSESSMENT TEST RESULT VALUE ADDED COURSE ON INDUSTRIAL AUTOMATION

SL.No	Reg.No	Number of Student	Total Marks(50)
1	922118105001	AFRIN S	36
2	922118105002	ALAQUF A	37
3	922118105003	ARAVINTH M	34
4	922118105004	ARUN KUMAR P	39
5	922118105005	ASMITHA B	25
6	922118105006	BALAKUMARAN A S	34
7	922118105007	DHANALAKSHMI MP	40
8	922118105008	GEETHANJALI S	34
9	922118105009	GOPIC	35
10	922118105010	GOWRI M	38
11	922118105011	GUNASEELAN A	44
12	922118105014	MONESH P	5
13	922118105015	NAGAMUTHUPANDI A	40
14	922118105016	NIYAZ AHAMED K	44
15	922118105017	PADMANABHAN D	35
16	922118105018	POOJA R	34
17	922118105020	PRAVEEN K	35
18	922118105021	RAJ KUMAR K	12
19	922118105022	RAM KUMAR P	31
20	922118105023	SABAPATHIS	3
21	922118105024	SABARIVASAN T	43
22	922118105026	SHANKAR GANESH G	10
23	922118105027	STERLIN INFANT DASS W	13
24	922118105029	SURYA J	30
25	922118105031	THAVA HARISH P	39
26	922118105033	VIGNESHWARAN K	40
27	922118105034	VISWAKSHENAN J	36
28	922118105301	GOPALAKRISHNAN L	25
29	922118105302	KARTHICK S	11
30	922118105305	MUKESH B	9
31	922118105306	NAVANEETHA PANDIAN P	12
32	922118105307	PRAVINKANTH K	17

Faculty Incharge



HoD/EEE

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922111810501

SHREE TECHNOLOGIES A FRANCHISEES OF
PROLIFIC SYSTEMS AND TECHNOLOGIES P LTD,
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM

Time: 1 Hours

maximum: 50 marks

Date:

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7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0 b) I: 0/0 c) X0 d) I1

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0 b) Y:0.0 c) Y0

9. Which one of the following belongs to Timer address in AB PLC?

a) T0

b) T4:0

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b) Turning a lamp ON c

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15. One of the following is an input device.

a) Motor

b) Light

c) Valve

d) Sensor

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a) True

b) False

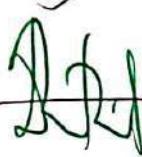
c) None of the above

17. In a PLC "I:0/0" is used to denote output and "O:0/0" is used for input

a) True

b) False

c) None of the above



18. Lights, lamps, motors are connected to:

- a) Analog output b) Digital output c) Analog input d) Digital input

19. What is mean by SCADA?

~~SCAD~~ Means. Supervisory Control And Data Acquisition system.

20. Which software used in scada?

~~Turbo C++~~

PART-B (5 X 2= 10 MARKS)

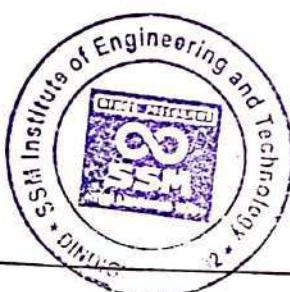
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PART-C (2 X 10=20MARKS)

(Answer all Questions)

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2. a) If a Switch is Pressed , Light A and Light B ON.
If the Switch is Released, Light A off, Light B ON.
- b) If a switch is ON, after 5 sec. lamp A- On,
After 10 sec. Lamp B- On, After 15 sec. Lamp C-On.




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AFRIN S

SHREE TECHNOLOGIES A FRANCHISEES OF
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
5DAYS PLC & SCADA TRAINING PROGRAM

Time: 1 Hours
Date:

maximum: 50 marks

PART-A (20 X 1=20MARKS)

1. Which Programming Language is commonly used in PLC?

- a) C++ b) Ladder c) C d) Java

2. Which One of the Following Communication Cable is used in PLC?

- a) DH-485 b) RS-485 c) RS-232 d) RJ45

3. "Download" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

4. "Upload" describes Transfer from

- a) PC to PLC b) PLC to PC c) PC to PC d) PLC to PLC

5. Which one of the following is not associated with AB PLC Timer?

- a) Preset b) Accumulator c) Binary Memory d) Time Base

6. Which Coil Permits the Supply when it is in ON state.

- a) Normally OPEN b) Normally CLOSE

7. Which one of the following belongs to Input address in AB PLC?

- a) I0.0 b) I: 0/0 c) X0 d) II

8. Which one of the following belongs to Output address in Delta PLC?

- a) O:0/0 b) Y:0.0 c) Y0 d) P10

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Department of Electrical and Electronics Engineering

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October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IV / 07

Date: 23/10/2021



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S.No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development		✓			
3	Motivation	✓				
4	Regularity and punctuality of trainer					
5	Coverage of syllabus		✓			
6	Interaction	✓				
7	Individual attention		✓			
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Signature of the student with name M.P. Dharalakshmi

M.P. Dharalakshmi



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Agrumalai (A. Grunmalai)

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Feel free to give QUALITATIVE comments too
..... Very good, Excellent teaching

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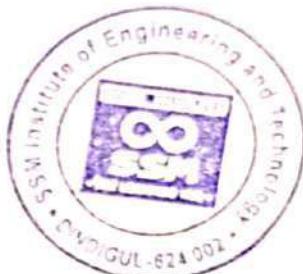
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STUDENT FEEDBACK FORM

Year/Sem: IVth Year / 7th Sem

Date: 23.10.21



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6	Interaction	✓				
7	Individual attention	✓				
8	Outcome	✓				

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Praveen.K
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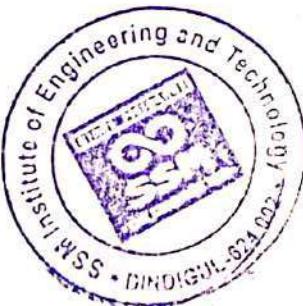
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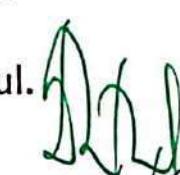
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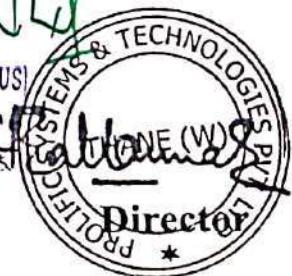
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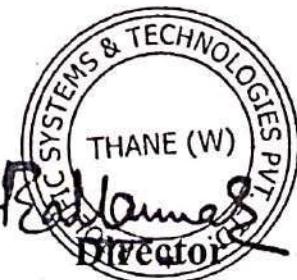
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