



SSM Institute of Engineering and Technology

sindalagundu post, Dindigul-624-002, Tamilnadu, pH: 0451-2448800
(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

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


HOD/EEE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
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

A handwritten signature in blue ink, appearing to read 'Yours' above the title 'HOD EEE'.

HOD EEE

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL - 624 002
Department of Electrical and Electronics Engineering
Student Details-Industrial Automation (Value added course)

Date: 18.10.21

S. No.	Reg.no.	Student Name	E-Mail-ID	Mobile number
1.	922118105001	AFRIN .S	afrinsithik7@gmail.com	9788540121
2.	922118105002	ALAQUE. A	alaqufl@gmail.com	8608839461
3.	922118105003	ARAVINTH.M	aravinthonfire@gmail.com	6381120795
4.	922118105004	ARUN KUMAR. P	arunkumarwaran2636@gmail.com	9655748829
5.	922118105005	ASMITHA. B	balasuba42@gmail.com	7826852460
6.	922118105006	BALAKUMARAN.A. S	balakumaran721@gmail.com	9442276199
7.	922118105007	DHANALAKSHMI.M.P	dhanalakshmimpy218@gmail.com	6385475300
8.	922118105008	GEETHANJALI. S	geethacandy11@gmail.com	9489662355
9.	922118105009	GOPI. C	gopichandru00@gmail.com	9629389694
10.	922118105010	GOWRI.	mgowri18401@gmail.com	8072712801
11.	922118105011	GUNASEELAN. A	agunaseelan2001@gmail.com	6374832034
12.	922118105014	MONESH. P	moneshvaran@gmail.com	9791528264
13.	922118105015	NAGAMUTHUPANDI. A	nagamuthupandi0@gmail.com	8610360858
14.	922118105016	NIYAZ AHAMED. K	nyzahmd27@gmail.com	9786922254
15.	922118105017	PADMANABHAN. D	padmanabhandhanabal@gmail.com	9443743604
16.	922118105018	POOJA. R	poojaraja2905@gmail.com	9444416771
17.	922118105020	PRAVEEN. K	kpraveen44985@gmail.com	8072733423
18.	922118105021	RAJ KUMAR. K	raj960893@gmail.com	9514502421
19.	922118105022	RAM KUMAR. P	ramrpprvdsr@gmail.com	9789661506
20.	922118105023	SABAPATHI. S	sabapathi696@gmail.com	8870390473
21.	922118105024	SABARIVASAN. T	sabarivasan455@gmail.com	9095014843
22.	922118105026	SHANKAR GANESH.G	gshankar7781@gmail.com	9629471256
23.	922118105027	STERLIN INFANT DASS .W	sterlin1800@gmail.com	9715176587
24.	922118105029	SURYA .J	suryajeya9659@gmail.com	9659311780
25.	922118105031	THAVA HARISH .P	thava24harish@gmail.com	8608684122
26.	922118105033	VIGNESHWARAN. K	vigneshwaran20001411@gmail.com	9790294240
27.	922118105034	VISWAKSHENAN. J	viswakshenan10102000@gmail.com	9566564286
28.	922118105301	GOPALAKRISHNAN. L	davidkrish22@gmail.com	9976843380
29.	922118105302	KARTHIK .S	sivakarthik9787@gmail.com	9952657678
30.	922118105305	MUKESH. B	mugi2942000@gmail.com	6374935078
31.	922118105306	NAVANEETHA PANDIAN.P	navneenpandi02@gmail.com	9003719056
32.	922118105307	PRAVINKANTH. K	kpkanth05@gmail.com	8248858727

Faculty Incharge



HOD/CEE



Principal

Dr.D.SENTHIL KUMARAN, M.E., Ph.D. (MUS)

Principal

SSM Institute of Engineering and Technology

Kuttathuratti Village, Sirdalagerdai Per. 2

Palani Road, Dindigul - 624 002

S. No.	Reg.no.	Student Name	18.10.21			20.10.21			21.10.21			22.10.21			23.10.21		
			FN	AN													
1	922118105001	AFRIN S	S. AFRIN														
2	922118105002	ALAQUFA A	A. ALAQUFA														
3	922118105003	ARAVINTHI M	M. ARAVINTHI														
4	922118105004	ARUNKUMAR P	P. ARUNKUMAR														
5	922118105005	ASMITTA B	B. ASMITTA														
6	922118105006	BALAKUMARAN A S	A.S. BALAKUMARAN														
7	922118105007	DIJANALAKSHMI MP	MP. DIJANALAKSHMI														
8	922118105008	GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	G. GEETHIANKALIS	
9	922118105009	GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	C. GOPIC	
10	922118105010	GOWRI M	M. GOWRI														
11	922118105011	GUNASEELAN V	V. GUNASEELAN														
12	922118105012	KANAKKU PICHIAS	I. KANAKKU														
13	922118105013	KESAVAN K	K. KESAVAN														
14	922118105014	MONEESH P	P. MONEESH														
15	922118105015	NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	C. NAGAMUTHUPANDIA	
16	922118105016	NIYAZ AHAMED K	C. NIYAZ AHMED														
17	922118105017	PADMANABHAN D	D. PADMANABHAN														
18	922118105018	POOJA R	R. POOJA														
19	922118105020	PRAVEEN K	K. PRAVEEN														
20	922118105021	RAJKUMAR K	K. RAJKUMAR														
21	922118105022	RAM KUMAR P	P. RAM KUMAR														

S. No.	Reg.no.	Student Name	18.10.21			20.10.21			21.10.21			22.10.21			23.10.21		
			EN	AN	FN												
22	922118105023	SABAPATHI S	S. Sabapathi	S. Sabapathi	S. Sabapathi	T. Balaji											
23	922118105024	SABARIVASANT	T. Balaji	T. Balaji	T. Balaji	G. Sankar											
24	922118105026	SHANKAR GANESH G	G. Sankar														
25	922118105027	STERLIN INFANT DASS W	G. Sankar														
26	922118105029	SURYA J	G. Sankar	G. Sankar	G. Sankar	J. Surya											
27	922118105030	THANUJ K	J. Surya	J. Surya	J. Surya	N/A											
28	922118105031	THAVAHARISH P	N/A														
29	922118105033	VIGNESHWARAN K	N/A	N/A	N/A	K. Vigneshwaran											
30	922118105034	VISWAKSHENAN J	K. Vigneshwaran	K. Vigneshwaran	K. Vigneshwaran	J. Viswakshenan											
31	922118105301	GOPALAKRISHNAN L	J. Viswakshenan	J. Viswakshenan	J. Viswakshenan	L. Gopalakrishnan											
32	922118105302	KARTHIK S	L. Gopalakrishnan	L. Gopalakrishnan	L. Gopalakrishnan	N/A											
33	922118105303	MARIA LEO ARUNA	N/A														
34	922118105305	MUKESH B	M. Mukesh	M. Mukesh	M. Mukesh	P. Arun											
35	922118105306	NAVANEETHA PANDIAN P	P. Arun														
36	922118105307	PRAVINKANTH K	P. Arun														

Faculty incharge
Dr. S. Senthil Kumar

HOD/EEE
Trainer

D

Principal
Dr.D.SENTHIL KUMAR, M.E., Ph.D., MTS

Principal
SSM Institute of Engineering and Technology
Autathupatti Village Sainthandurai P.O.,
Rajalakshmi Road, Dindigul 624 002



(International Accreditation
Organisation - USA)
Accredited Courses

An ISO 9001-2008
Certified Co.

(Govt. of India) Approved
Training Company

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

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

Allenbradley (AB)

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 ➤ Configuring Local 1756-I/O Modules	Practical –Physical wiring
➤ Connecting a Computer to a Communications Network	
➤ Installing and to starting the programming terminals ➤ Creating & Modifying an RSLogix new project ➤ Transferring a Project File to a Logix500 Controller	Practical – Installation of software
➤ Identifying the status of PLC and communication bus	Practical on PLCs
➤ Creating Tags & Monitoring Data in an RSLogix 500 Project ➤ Forcing of the I/O's	Practical on Software
➤ Managing RSLogix 500 Project Files ➤ Back up of the programs and reloading	Practical on PLCs

Programming / Project Development

Ladder Logic Programming/Interpretation	Practical – Programming terminal
➤ Identifying Programming Strategies & Techniques <ul style="list-style-type: none"> ▪ Documenting & Searching Ladder Logic ▪ Programming N/o,N/c Instructions ▪ Programming Timer & Counter Instructions ▪ Programming Program Control Instructions ▪ Programming Compare Instructions ▪ Programming Compute & Math Instructions ▪ Programming Move Instructions ▪ Programming with Advance Instruction Set 	
➤ Introduction to industrial networking ➤ Identifying Industrial Networks for Use in a RSLogix500 System	Theory session

Supervisory Control & Data Acquisition Software (Wonderware 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

Programmable Logic Controllers (PLC) –Delta PLC

Topics Covered

Programming / Project Development

Topic	Mode
➤ SIMATIC S7 PLC Functionalities	Practical on PLC's
➤ Setting up Delta PLC hardware	
➤ 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

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



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.Ilanchezhan, Technical Manager, Shree Technologies pvt. Ltd, Coimbatore, Assessment test was conducted and feedback from students collected.



Faculty Incharge

HOD/EEE

Principal

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

**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:

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) 1Q

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 fan
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

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.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sindalagundu post, Dindigul-624002.

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	ALAQUFA 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	GOPI C	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	SABAPATHI S	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	KARTHIK S	11
30	922118105305	MUKESH B	9
31	922118105306	NAVANEETHA PANDIAN P	12
32	922118105307	PRAVINKANTH K	17

Faculty incharge


HOD/EEE

**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

Date:

maximum: 50 marks

PART-A (20 X 1=20MARKS)

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

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- c) RS-232
- d) RJ45

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

4. "Upload" describes Transfer from

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- 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
- d) 1Q

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~~
c) Varying the brightness of a lamp d) Controlling the speed

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

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?

Supervision controller and Data Acquisition

20. Which software used in scada?

Intouch wonderware

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)

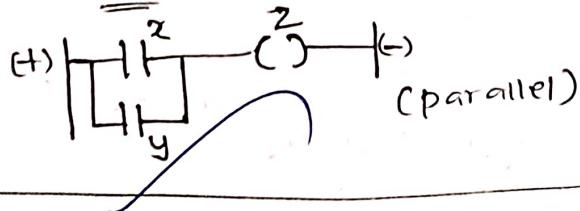
1. What is meaning by Automation and Its Types and Its Application?
2. a) If a Switch is Pressed , Light A and Light B ON.
If the Switch is Released, Light A off, Light B ON.
- b) If a switch is ON, after 5 sec. lamp A- On,
After 10 sec. Lamp B- On, After 15 sec. Lamp C-On.

Part B:

i) OR gate :

x	y	z
0	1	1
1	0	1
0	0	0
1	1	1

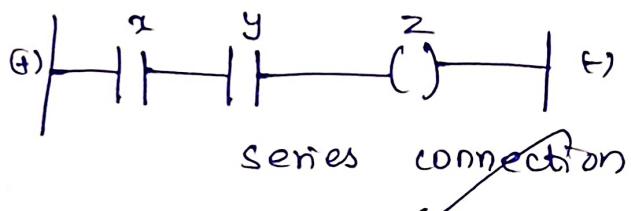
Part B
Diagram:



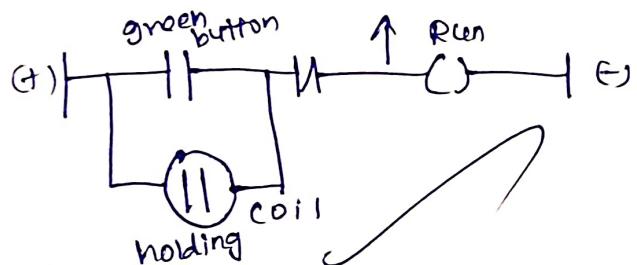
(2) And gate:

x	y	z
1	0	0
0	1	0
0	0	0
1	1	1

Diagram for And gate



3) DCI staters:



4) Allen Bradley:

i) programming software - RSLOGIX X500

ii) communication software - RSLINK

iii) simulation software - RSLOGIX EMU

iv) protocol - RS232

v) Input address - I:0/0

vi) output address - O:0/0

timer address - T4:0 ... T4:255

counter address - C5:0 ... C5:255

5) Electrical:

It is connection of a

conductor

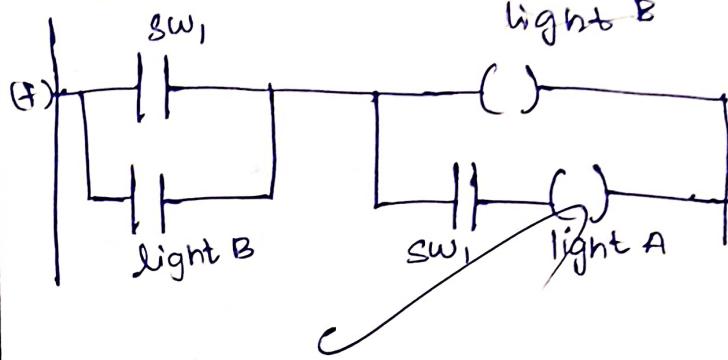
Electronics?

It is connection of a

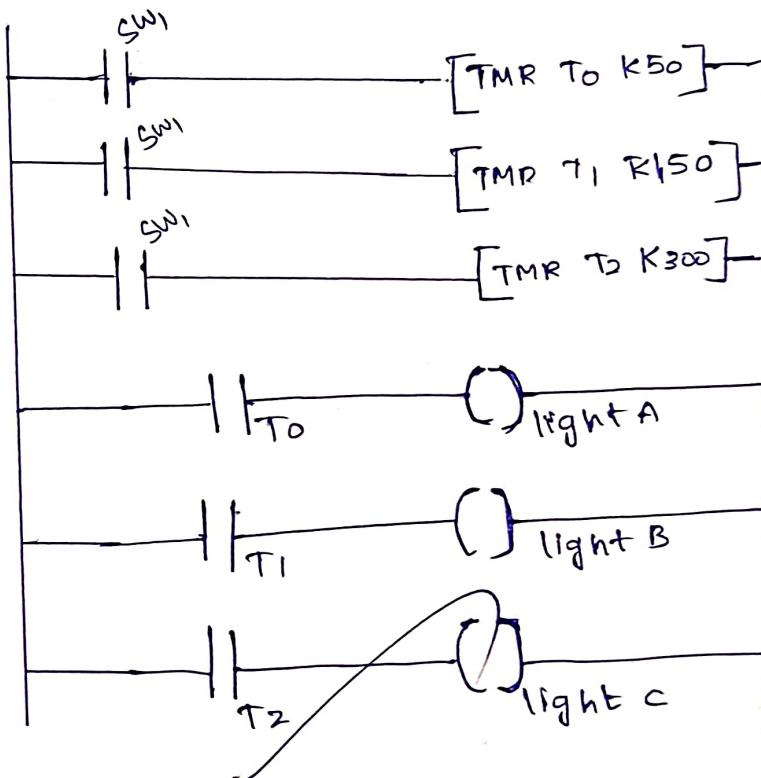
Semiconductor.

Part - C

2(a)



2(b)





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IV - 04

Date: 23 /10 /21

Dear Student,

Thank you for your participation Value added course on Industrial Automation. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

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	/				
8	Outcome	/				

Feel free to give QUALITATIVE comments too

.....I have....attend...5...days...internship...it is very.....
.....useful.to....gain...knowledge.....

Arunasalan (A. Arunasalan)

Signature of the student with name



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IVth Year / 7th Sem

Date: 23.10.21

Dear Student,

Thank you for your participation Value added course on Industrial Automation. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

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	✓				
8	Outcome	✓				

Feel free to give QUALITATIVE comments too

Praveen.R

Praveen R

Signature of the student with name



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: I / VII

Date: 23.10.21

Dear Student,

Thank you for your participation Value added course on Industrial Automation. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

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	✓				
8	Outcome		✓			

Feel free to give QUALITATIVE comments too

The course we had attended are informative and helpful to improve our carrier on next level.....

Signature of the student with name

M. Gouri M. Gouri



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: 07

Date: 23. 10. 2021

Dear Student,

Thank you for your participation Value added course on Industrial Automation. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

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	✓				
8	Outcome		✓			

Feel free to give QUALITATIVE comments too

.....I have learnt....PLC program,...it's easy...very...to...understand.
PLA & SLA DA....Training....was....amazing....to....work.....

19

Signature of the student with name *Raghul. (S. Geethanjali)*



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

October 18-23, 2021

STUDENT FEEDBACK FORM

Year/Sem: IV - 07th Sem

Date: 23/10/2021

Dear Student,

Thank you for your participation Value added course on Industrial Automation. We would like to hear from you - areas that you find useful and areas that you think we can do better. Your feedback will help us evaluate the effectiveness of this program and allow us to make improvements in future.

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		✓			
8	Outcome	✓				

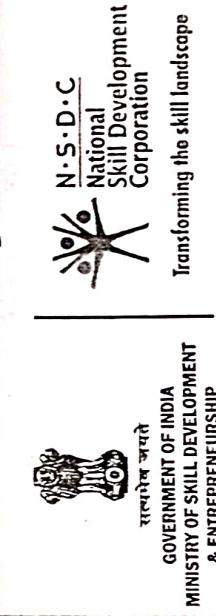
Feel free to give QUALITATIVE comments too

.....It is useful for Industrial based.....
.....course.....So it is useful for Industrial Wind of
.....

20


Signature of the student with name

CERTIFICATE



राष्ट्रीय कौशल
GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

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- The Automation Process
- Programmable Logic Controller
- SCADA software
- VFD

Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

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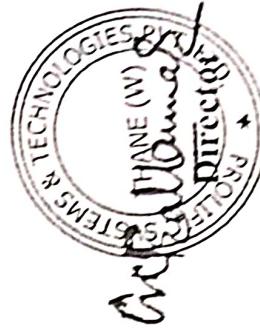
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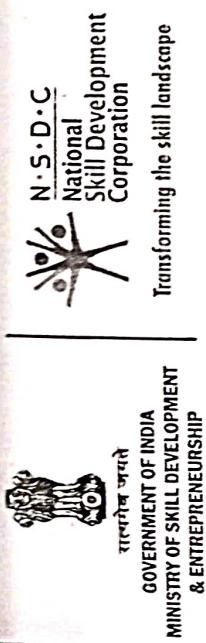


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PRAVEEN K

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- SCADA software
- VFD

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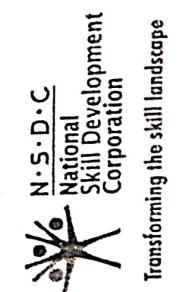
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Ministry of Skill Development & Entrepreneurship
सरकारी कल्याण

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RAJ KUMAR K

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- Programmable Logic Controller
- SCADA software
- VFD

Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

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SABAPATHI S

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- SCADA software
- VFD

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