

From

Dr. G.Mohanbabu,
Professor & Head,
Department of Electrical and Electronics Engineering,
SSM Institute of Engineering and Technology,
Dindigul-02

To
The Principal,
SSM Institute of Engineering and Technology,
Dindigul-02

Respected Sir,
Sub: Requesting Approval of conducting Technological Teaching for III Year EEE Students-Reg

The Department of EEE has planned to conduct Technological Teaching for third year students on "Industrial Automation" which is scheduled to be conducted on the month of May 2022. In this regard, I request your permission to conduct this training on the scheduled month. The quotation details, syllabus and Training Schedule are attached with this letter. Kindly do the needful sir.

Name of the Technological Training	Name of the Company	Total Number of Students	No of Hours	Date	Amount	Coordinator/Faculty in Charges
Training on Industrial Automation	PROLIFIC Systems and Technological Pvt. Ltd, Coimbatore	44 (Rs.1200 Per Student)	40	09.05.22 to 13.05.22	Rs.52,800	D.Manoj,A.P/EEE P.Siva Subramanian,A.P/EEE

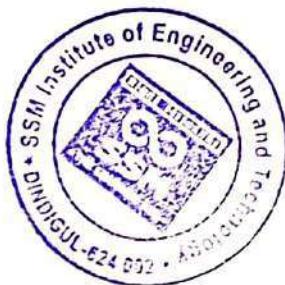
Resource Person Details:

Mr. K. Ilanchezhian, Manager-Technical

Thanking you

Yours faithfully

(Dr.G.Mohanbabu)



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



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

Five days Technology Training Program on
" Industrial Automation"

For III year students of EEE
from (09.05.2022 to 13.05.2022)

Trained by

Shree Technologies Private Limited, Coimbatore

Co-ordinators

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

HoD

Dr.G.Mohanbabu

Principal

Dr.D.Senthil Kumaran



All are Invited

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
SSM Institute of Engineering and Technology
Ettuthurappillai - Sindalagundu (P.O),
Palani Road, Dindigul - 624 062.

SSM Institute of Engineering and Technology, Dindigul -02.

Department of Electrical and Electronics Engineering

CIRCULAR

07.05.2022

This is to inform that technology training program ~~on~~ ^{Conducted by} **PROLIFIC SYSTEMS & TECHNOLOGIES Pvt Ltd, Coimbatore** is going to be conducted for III-year EEE students. Henceforth interested students are informed to register their name to Mr.D.Manoj, AP/EEE. Course Duration: 09.05.2022 to 13.05.2022

Faculty Incharge

M. Manoj
HoD/EEE

D. Senthil Kumaran, M.E., Ph.D. (Sud)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sivagangai (P.O),
Palam Road, Dindigul - 624 002.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electrical and Electronics Engineering
III year Name List Batch: 2019-2023

S. No	Register Number	Name
1	922119105001	ABINAYA S S
2	922119105002	ANIESH ANGEL A
3	922119105003	ARUL NITHISH KUMAR R
4	922119105004	BEBINA RITHIKA J
5	922119105005	BRUMMA THAMO THARAN M
6	922119105006	DHEEPAN KUMAR G
7	922119105007	DHILIP LAKSHMAN V
8	922119105008	ESHWAR J
9	922119105009	GNANA AROCKYA AMALI B
10	922119105010	GOKULA PANDIYAN A
11	922119105011	HARINI M
12	922119105012	HARIKRASATH S
13	922119105013	HEMALATHA S
14	922119105014	KARTHIKEYAN B
15	922119105016	KRISHNA LEELA S
16	922119105017	MANJULA S
17	922119105018	MANOJ KUMAR A
18	922119105019	MOHAMMED HAFEEZ A
19	922119105020	MOHAMMED JAVITH S
20	922119105021	MOUNA JOTHI M
21	922119105022	MUTHUKUMAR R
22	922119105023	NAGARANI M
23	922119105024	NASEER HUSSAIN S
24	922119105025	PRAKASH T
25	922119105026	PREETHIKA J
26	922119105027	PUNITHA VIJAYASRI P
27	922119105028	RAJESH MANI K
28	922119105029	RESHMA P
29	922119105030	RISHIKARAN
30	922119105031	ROBIN NICHOLAS S
31	922119105032	SANGAVI SRI M
32	922119105033	SARAVANAN R
33	922119105034	SHAGIL P
34	922119105035	SHALINI T
35	922119105036	SIVASUBRAMANI S
36	922119105037	SRI VARSHAN K
37	922119105038	SURIYA SELVAM I
38	922119105039	VAISHNAVI C
39	922119105040	VINITH PRAVEEN KUMAR V
40	922119105041	VINOOTH KUMAR S



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

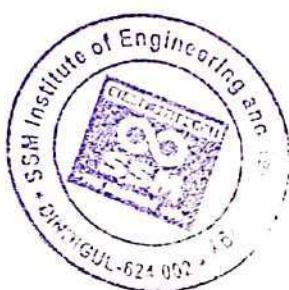


SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electrical and Electronics Engineering
III year Name List Batch: 2019-2023

41	922119105042	VISWAA J
42	922119105301	AKASH A
43	922119105302	BAVADHARANI U
44	922119105303	BHARATHKUMAR K

D.R.J.
Faculty In-charge

M.M
HoD/EEE



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



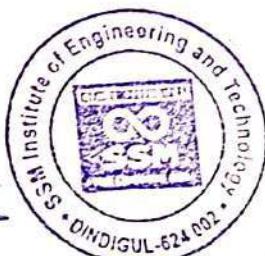
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Department of Electrical and Electronics Engineering

Technology Training(Prolific systems and Technology Pvt Ltd,Coimbatore)

Industrial Automation

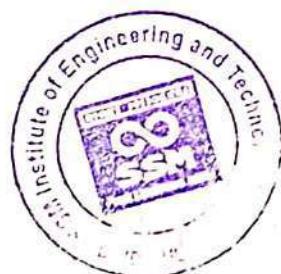
S.No	Register Number	Name of the Student	09.05.22		10.05.22		11.05.22		12.05.22		14.05.22	
			FN	AN								
1	922119105001	ABINAYA S S	P	A	P	A	P	A	P	A	P	A
2	922119105002	ANIESH ANGEL A	P	A	P	A	P	A	P	A	P	A
3	922119105003	ARUL NITHISH KUMAR R	Aru	Anul	Aru	Anul	Aru	Anul	Aru	Anul	Ridh	Ridh
4	922119105004	BEBINA RITHIKA J	B Q	B L	B Q	B L	B Q	B L	B Q	B L	B Q	B L
5	922119105005	BRUMMA THAMOTHARAN M	B	Q	B	Q	B	Q	B	Q	B	Q
6	922119105006	DHEEPANKUMAR G	D	H	D	H	D	H	D	H	D	H
7	922119105007	DHILIP LAKSHMAN V	Dhilip	Dhilip								
8	922119105008	ESHWAR J	Eshwar	Eshwar								
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12	922119105012	HARI PRASATH S	S. HARI	S. HARI								
13	922119105013	HEMALATHA S	H. Hema	Latha								
14	922119105014	KARTHIKEYAN B	Karthikeyan	B	Karthikeyan	B	Karthikeyan	B	Karthikeyan	B	Karthikeyan	B
15	922119105016	KRISHNA LEELA S	K. L.	R. L.								
16	922119105017	MANJULA S	M. Manjula	S	M. Manjula	S	M. Manjula	S	M. Manjula	S	M. Manjula	S
17	922119105018	MANOJ KUMAR A	M. Manoj	K. Manoj								
18	922119105019	MOHAMMED HAFEEZ A	M. Hafeez	A	M. Hafeez	A	M. Hafeez	A	M. Hafeez	A	M. Hafeez	A
19	922119105020	MOHAMMED JAVITH S	M. Javith	S	M. Javith	S	M. Javith	S	M. Javith	S	M. Javith	S
20	922119105021	MOUNAJOTHI M	M. Mounajothi	M.								
21	922119105022	MUTHU KUMAR R	Muthu	Kumar								
22	922119105023	NAGARANI M	M. Nagarani	M. Nagarani								
23	922119105024	NASEER HUSSAIN S	N. Hussain	S	N. Hussain	S	N. Hussain	S	N. Hussain	S	N. Hussain	S
24	922119105025	PRAKASH T	T. Prakash	T.								
25	922119105026	PREETHIKA J	Preethika	J	Preethika	J	Preethika	J	Preethika	J	Preethika	J
26	922119105027	PUNITHA VIJAYASRI P	P. P. S	-P. P. S	-P. P. S	-P. P. S	P. P. S	-P. P. S	P. P. S	-P. P. S	P. P. S	-P. P. S
27	922119105028	RAJESH MANI K	Rajesh	Mani								
28	922119105029	RESHMA P	Reshma	P	Reshma	P	Reshma	P	Reshma	P	Reshma	P
29	922119105030	RISHIKARAN R	Rishikaran	R	Rishikaran	R	Rishikaran	R	Rishikaran	R	Rishikaran	R
30	922119105031	ROBIN NICHOLAS S	R. Robin	S. Nicholas								
31	922119105032	SANGAVI SRI M	M. Sangavi	S. Sri								
32	922119105033	SARAVANAN R	R. Saravanan	R. Saravanan								



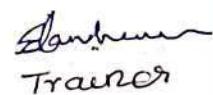
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Principal

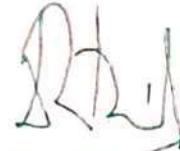
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Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002

33	922119105034	SHAGIL P	Shagil									
34	922119105035	SHALINI T	Salle									
35	922119105036	SIVASUBRAMANIS	Sure									
36	922119105037	SRIVARSHAN K	Sivard	Sivard	Sivard	Sivard	Siva.L	Sivard	Sivard	Sivard	Sivard	Sivard
37	922119105038	SURIYA SELVAM I	Suriya	Suriya	Suriya	Suriya	I.Tel	Suriya	Suriya	Suriya	Suriya	Suriya
38	922119105039	VAISHNAVI C	Vaish	Vaish	Vaish	Vaish	Var.C	Vaish	Vaish	Vaish	Vaish	Vaish
39	922119105040	VINITH PRAVEEN KUMAR	Vinith									
40	922119105041	VINOOTH KUMAR S	Vinoth									
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43	922119105302	BAVADHARANI U	Bava									
44	922119105303	BHARATHKUMAR K	Bhark									




 Faculty in charge
 9/05/22


 Examiner
 Trainer


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


 H.O.D. FEE



(International Accreditation
Organisation - USA)
Accredited Courses

An ISO 9001-2008
Certified Co.

(Govt. of India) Approved
Training Company

Topics Covered

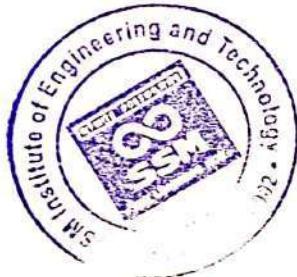
➤ Programmable Logic Controllers (PLC)- Advance

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



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., F.I.S.I
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundi (P.O),
Palani Road, Dindigul - 624 002.

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

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



Programmable Logic Controllers (PLC) –Delta PLC

Topics Covered

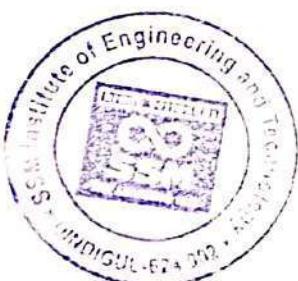
Programming / Project Development

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



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

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.O),
Palani Road, Dindigul - 624 002.



VFD – Variable Frequency Drives

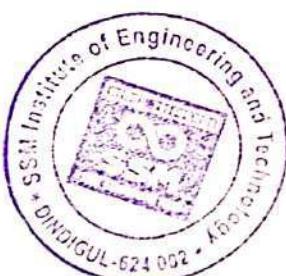
Variable Speed Drives

- 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



Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(RUS)
Principal

SSM Institute of Engineering and Technology
Kuttiyurpettai Village, Sindalagundu (Po),
Julani Road, Dindigul - 624 002



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Dindigul – Palani Highway, Dindigul 624 002



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Value added Course Summary (2021-2022)

Course Name : Industrial Automation

Course Duration : 40 Hours

Year offered : III year students -2021-2022

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

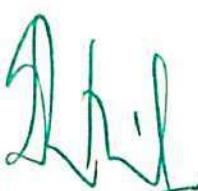
Number of participants : 44

Scheme of Exam : MCQ offline



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Course Coordinator



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

Principal

SSM Institute of Engineering and Technology

Kuttathupatti Village, Sindalagundu (P.O),

Palani Road, Dindigul - 624 002.

A handwritten signature in red ink, appearing to read 'HoD'.



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sindalagundu post, Dindigul-624 002, Tamilnadu. Ph: 0451-2448800
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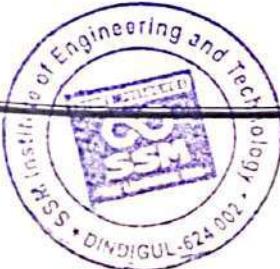
Summary Report

The department of Electrical and Electronics Engineering, SSM Institute of Engineering and Technology conducted **Technology training on Industrial Automation** from 9th May 2022 to 13th May 2022. The course covered topics including Introduction to PLC, Operation and Maintenance of PLC, Programming and Project Development, Applications of SCADA software, Different packages available with I/O structure, Features of SCADA software. Students have attended assessment tests at the end of the course and certificates were issued. The students from third year EEE attended the course and got benefitted.




Dr. D. SENTHIL KUMARAN, M.E., Ph.D., (IUS)
Principal

SSM Institute of Engineering and Technology
Kuttathupattu Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.



SHREE TECHNOLOGIES A FRANCHISEES OF
PROLIFIC SYSTEMS AND TECHNOLOGIES P LTD,
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICSENGINEERING
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 PLCTimer?

- a) Preset b)Accumulator c) Binary Memoryd) 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)I1

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



Dr.D.SENTHIL KUMARAN, M.E., Ph.D., M.BUS,

Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

26/1

- 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 Permit 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) Valved) Sensor

16. PLC stands for programmable logic 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 ~~False~~ False



- c) None of the above

D.D.SENTHIL KUMARAN, M.E., Ph.D.,(I.I.M.S)
Principal

SSM Institute of Engineering and Technology
Kuitathupatti Village, Sindlagundi (Po),
Paianj Road, Dindigul - 624 002.

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 meaningby Automation and Its Types and Its Application?

2. a) If a Switch is Pressed , Light A and Light B ON.

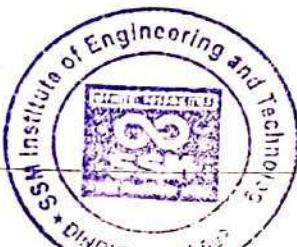
If the Switch is Released, Light A off, Light B ON.

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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Principal
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Kuttathupatti Village, Sindalagundu(Po),
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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Sindalagundu post, Dindigul-624002, Tamilnadu. Ph:0451-2448800

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TECHNOLOGY TRAINING ON "INDUSTRIAL AUTOMATION

MARK STATEMENT

S. No.	Reg.no.	Student Name	MARK(50)
1	922119105001	ABINAYA S S	30
2	922119105002	ANIESH ANGEL A	28
3	922119105003	ARUL NITHISH KUMAR R	17
4	922119105004	BEBINA RITHIKA J	15
5	922119105005	BRUMMA THAMO THARAN M	20
6	922119105006	DHEEPAN KUMAR G	25
7	922119105007	DHILIP LAKSHMAN V	29
8	922119105008	ESHWAR J	12
9	922119105009	GNANA AROCKYA AMALI B	13
10	922119105010	GOKULA PANDIYAN A	20
11	922119105011	HARINI M	32
12	922119105012	HARIKRASATH S	23
13	922119105013	HEMALATHA S	25
14	922119105014	KARTHIKEYAN B	- [AB]
15	922119105016	KRISHNA LEELA S	10
16	922119105017	MANJULA S *	26
17	922119105018	MANOJ KUMAR A	15

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

Principal

SSM Institute of Engineering and Technology

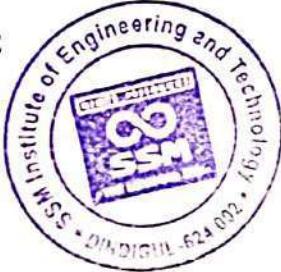
Kuttaiyapatti Village Sindalagundu, Ng,

Palani Road, Dindigul - 624002



S. No.	Reg.no.	Student Name	MARK
18	922119105019	MOHAMMED HAFEEZ A	27
19	922119105020	MOHAMMED JAVITH S	32
20	922119105021	MOUNA JOTHI M	31
21	922119105022	MUTHUKUMAR R	36
22	922119105023	NAGARANI M	36
23	922119105024	NASEER HUSSAIN S	12
24	922119105025	PRAKASH T	10
25	922119105026	PREETHIKA J	8
26	922119105027	PUNITHA VIJAYASRI P	31
27	922119105028	RAJESH MANI K	30
28	922119105029	RESHMA P	24
29	922119105030	RISHIKARAN	20
30	922119105031	ROBIN NICHOLAS S	21
31	922119105032	SANGAVI SRI M	18
32	922119105033	SARAVANAN R	17
33	922119105034	SHAGIL P	15
34	922119105035	SHALINI T	14
35	922119105036	SIVASUBRAMANI S	11
36	922119105037	SRI VARSHAN K	12
37	922119105038	SURIYA SELVAM I	35
38	922119105039	VAISHNAVI C	32
39	922119105040	VINITH PRAVEEN KUMAR V	24
40	922119105041	VINOOTH KUMAR S	24
41	922119105042	VISWAA J	23
42	922119105301	AKASH A	26
43	922119105302	BAVADHARANI U	12
44	922119105303	BHARATHKUMAR K	16

FACULTY IN-CHARGE



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

HOD EEE

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

Time: 1 Hours

maximum: 50 marks

Date:

PART-A (20 X 1 = 20 MARKS)

36
50

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 PLCTimer?

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

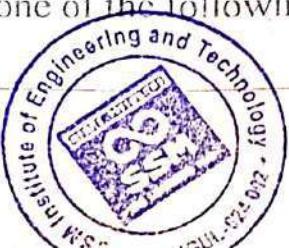
6. Which Coil Permits the Supply when it is in ON state.

- 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) I1

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



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Principal

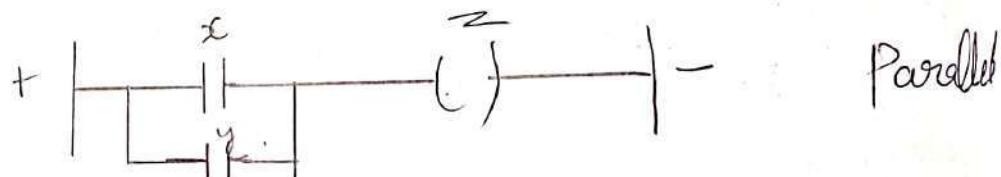
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Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002

Answer all questions (2 marks)

1) OR gate

X	Y	Z
0	1	1
1	0	1
0	0	0
1	1	1

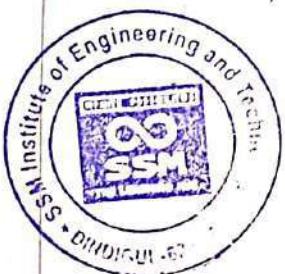
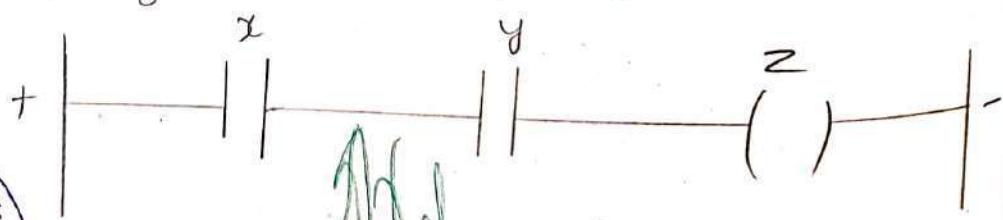
Diagram for OR gate



2) AND gate

X	Y	Z
1	0	0
0	1	0
0	0	0
1	1	1

Diagram for AND gate



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

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

- 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 Normally CLOSE

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

- a) Done Bit 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 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) Valved Sensor

16. PLC stands for programmable logo controller.

- a) True False c) None of the above

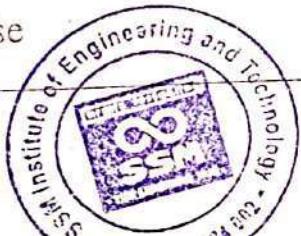
17. In a PLC "I:0/0" is used to denote output and "O:0/0" is used for input.

- a) True False c) None of the above

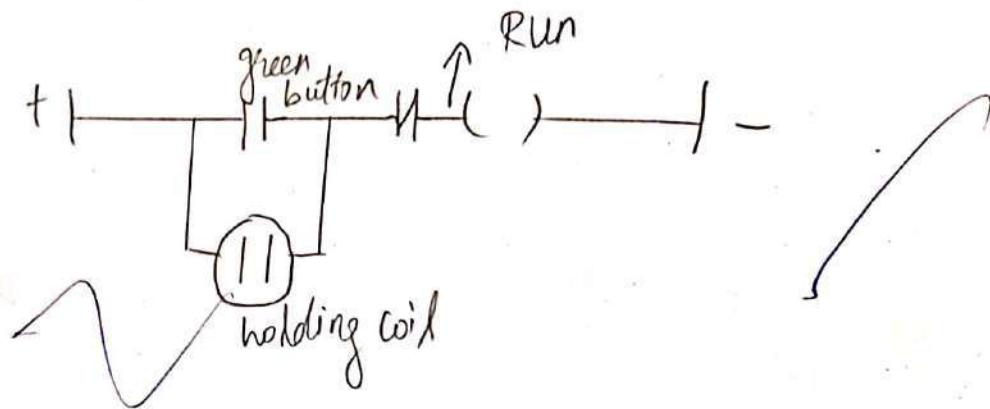
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., M.Tech

Principal

SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.O),
Palani Road, Dindigul - 624 002.



3) DOL Starter



4) Allen Bradley :

Programming Software - RS LOGIX500

Communication Software - RSLINX

Soft Simulation Software - RSLLOGIXE

- RS232

Protocol

Input address - I : 0/0

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 a Connection of Semiconductors



Dr.D.SENTHIL KUMAR M.E., Ph.D., (HUSA)

SSM Institute of Engineering and Technology,
Kuttathupatti Village, Omurangal (P.O),
Palani Road, Dindigul - 624 002.

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?

Supervisor Controller and Data Acquisition.

20. Which software used in scada?

Intouch wonderware

PART-B (5 X 2= 10 MARKS)

(Answer all Questions)

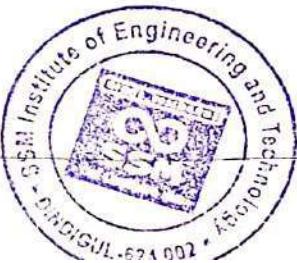
1. Draw the Ladder Diagram for EX-OR Gate?
2. Draw the Ladder Diagram for AND Gate?
3. Draw the Ladder Diagram For DOL Starter?
4. List the Name of Programming Software, Communication Software and Simulation Software for Allen Bradley PLC?
5. Difference between Electrical and Electronics?

PART-C (2 X 10=20MARKS)

(Answer all Questions)

1. What is meaningby 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.

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



PROLIFIC

An ISO 9001-2008 Certified Co.

Name : S.Sivasubramani
 College Name : SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
 Department : EEE Mobile No : 8110052871
 Year : 2022 2019-2023
 Permanent Address: 17. Krishna Grounden Pudur. murunellikottai (po)
 vedasahdur - 624710

After Graduation :

- Job Higher Studies

Training Interested In –

- Short term Training Program in College premises
- Post Graduate Diploma In Industrial Automation at Prolific –(100% Placement)
- Post Graduate Diploma In Embedded Systems at Prolific – (100% Placement)
- Short term Training Program at Prolific

Feedback :

very usefull session. we know Automation importance.



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

Principal

SSM Institute of Engineering and Technology
 Kuttathupatti Village, Sindalagundu, T.N.
 Palani Road, Dindigul - 624 002.

N.S.D.C
National Skill Development Corporation

Date: 14-05-2022

PROLIFIC An ISO 9001:2008 Certified Co. Name: J.E.SHAR College Name: SSM IET Department: EEE Year: 3 rd Permanent Address: 24/24 Cllandiarmam Kovil 2nd Street, Dindigul. After Graduation: 1st Job Training Interested In: <input checked="" type="checkbox"/> Short term Training Program in College premises <input type="checkbox"/> Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement) <input type="checkbox"/> Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement) <input type="checkbox"/> Short term Training Program at Prolific Feedback: Very useful session. I clearly know the PLC Software.	
--	--

N.S.D.C
National Skill Development Corporation

Date: 15-05-2022

PROLIFIC An ISO 9001:2008 Certified Co. Name: AENAVYA S.R College Name: SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY Department: EEE Year: 3 rd Permanent Address: 16/4, SSM, Cross street, Madipakkam, Chennai - 600111 After Graduation: 1st Job Training Interested In: <input checked="" type="checkbox"/> Short term Training Program in College premises <input type="checkbox"/> Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement) <input type="checkbox"/> Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement) <input type="checkbox"/> Short term Training Program at Prolific Feedback: Useful	
---	--

N.S.D.C
National Skill Development Corporation

Date: 15-05-2022

PROLIFIC An ISO 9001:2008 Certified Co. Name: M.MOUNA JATHI College Name: SSMIET Department: EEE Year: 3 rd Permanent Address: 36, Mahaveer Nagar - 2nd, another pillar street, Dindigul - 2 After Graduation: 1st Job Training Interested In: <input checked="" type="checkbox"/> Short term Training Program in College premises <input type="checkbox"/> Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement) <input type="checkbox"/> Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement) <input type="checkbox"/> Short term Training Program at Prolific Feedback: This Training program is very useful.	
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N.S.D.C
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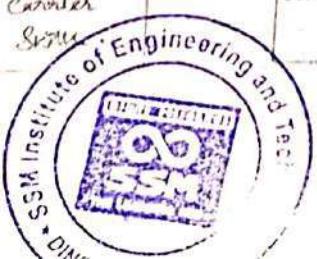
Date: 15-05-22

PROLIFIC An ISO 9001:2008 Certified Co. Name: ROBIN NICHOLAS.S College Name: SSMIET Department: EEE Year: 3 rd Permanent Address: 66/3, Pavanai Savadi Road, METTUPATTY, SENGAMPUR, DINDIGUL, 624502. After Graduation: 1st Job Training Interested In: <input checked="" type="checkbox"/> Short term Training Program in College premises <input type="checkbox"/> Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement) <input type="checkbox"/> Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement) <input type="checkbox"/> Short term Training Program at Prolific Feedback: Good Teaching, Good and clear Explain, very useful.	
--	--

N.S.D.C
National Skill Development Corporation

Date: 14-05-22

PROLIFIC An ISO 9001:2008 Certified Co. Name: V.DILIP LAKSHMIN College Name: SSM IET Department: EEE Year: 3 rd Permanent Address: 15-1-63/9, Savangam Street, Nedapatti, Chindapatti - Dindigul - 624501 After Graduation: 1st Job Training Interested In: <input checked="" type="checkbox"/> Short term Training Program in College premises <input type="checkbox"/> Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement) <input type="checkbox"/> Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement) <input type="checkbox"/> Short term Training Program at Prolific Feedback: This Training is very useful.	
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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

PROLIFIC

Date :

Name : P. SURESH
Mobile No : 9844462181
Mail ID : p.suresh@prolific.com
Permanent Address : 10/235 DB
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : Training is good

PROLIFIC

Date :

Name : P. DAYANAND
Mobile No : 9353741116
Mail ID : sdayananduk724@gmail.com
Permanent Address : 1726 Anna Nagar, Velachery
Dindigul District - 624001
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : very useful

PROLIFIC

Date :

Name : R. RISHABH
Mobile No : 9844495729
Mail ID : rishabh9001@gmail.com
Permanent Address : Mounaparam 1st Street, Palani road, Dindigul
Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : Within 6 day not enough.
We need one month the class.. to learn very well

PROLIFIC

Date :

Name : K.S. Varshini
Mobile No : 8154750318
Mail ID : kavarshini92001@gmail.com
Permanent Address : Karthi Bye Bus Road, Oddanchuzha, Dindigul, 624019
Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : It was very useful to my career. In future gives another hand to my life.

PROLIFIC

Date :

Name : V. Muthukumar
College Name : SSM Institute of Engineering and Technology
Department : EEE
Year : III
Permanent Address : muthukumar18231997@gmail.com
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : This course was easily handled by the teaching staff so it is easy to understand.

PROLIFIC

Date :

Name : VINOOTH KUMAR S
College Name : SSM IET
Department : EEE
Year : IV
Permanent Address : 15-12-133 Kuduvveli Nagar, Chinnalapatti, Dindigul,
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : Good Experience for increasing my skills.

PROLIFIC

Date :

Name : J. Vignesh
College Name : SSM IET
Department : EEE
Year : 2014-2015
Permanent Address : 14-1-64 A Saliga Vellalan street, madiyapatti, Dindigul
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : Very useful, good training.

PROLIFIC

Date :

Name : J. Suviya Selvarani
College Name : SSM IET
Department : EEE
Year : III
Permanent Address : 8/107 Meenambakkam, Rajiv Gandhi, Dindigul, 624005
After Graduation : Job Higher Studies
Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

 Feedback : This course is very useful and very knowledgeable. Dr. D. MUTHUKUMARAN, M.E., Ph.D., M.Tech
Principal
SSM Institute of Engineering and Technology
Kuttupatti Village, Siallagudu PO,
Palani Road, Dindigul - 624002

PROLIFIC

N.S.D.C
National Skill Development Corporation

Name : Chandru Kumar
College Name : SSM Institute of Engineering and Technology
Department : EEE
Year : II
Mail ID : chandru.kumar81@gmail.com
Permanent Address: 69/10, Pandalur regd, Tengumangai, Pondicherry - 605002
Mobile No : 9012671033
Age : 20
Feedback: Good

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: Good for study :-)

PROLIFIC

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Name : G. Dhoofar Kumar
College Name : SSM IET
Department : EEE
Year : II
Mail ID : g.dhoofarkumar81@gmail.com
Permanent Address: Dindigul

Date : 14/4/29

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: help for study :-)

PROLIFIC

N.S.D.C
National Skill Development Corporation

Name : Rajesh manik
College Name : SSM Institute of Engineering and Technology Date : 14/04/22
Department : EEE
Year : II
Mail ID : rajeshmanik2002@gmail.com
Permanent Address: 7/105 Vattappalai, Sindalagund (Po), Baganur
Age : 20
Feedback: To reduce the teaching speed.

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: very useful session, to provide new program training.

PROLIFIC

An ISO 9001:2000 Certified Co.

Name : R. Arul Nithish Kumar
College Name : SSM IET
Department : EEE
Year : II
Mail ID : arulnithishkumar85@gmail.com
Permanent Address: 4/163 - mattu matha street , north north Pettai , vivekanad , Dindigul - 624002

Date : 14/05/22

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: very useful session, to provide new program training.

PROLIFIC

N.S.D.C
National Skill Development Corporation

Name : HARIDRASATH, G.
College Name : SSM - IET
Department : EEE
Year : II
Mail ID : haridrasath.56216@gmail.com
Permanent Address: A/G, Simurugan regar, J. Pudukottai, Dindigul.
Feedback: It's just basic. we need to learn more.

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: Good

PROLIFIC

An ISO 9001:2000 Certified Co.

Name : U. Pavadharam
College Name : SSM INSTITUTE OF ENGINEERING & TECHNOLOGY
Department : EEE
Year : III
Mail ID : pavadharam111@gmail.com
Permanent Address: 10-2-246, MGR NAGAR, VADAMADURAI,
DANDIKUL (S-T) NEERANDEEP (T-K) VADAMADURAI - 624002

Date : 14/05/22

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
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 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: Good

PROLIFIC

N.S.D.C
National Skill Development Corporation

Name : A. Maroju KUMAR
College Name : SSM IET
Department : EEE
Year : II
Mail ID : amaroju.kumar1606@gmail.com
Permanent Address: 175, 3rd Street, Mettupatti, Dindigul
Feedback: Very useful and Good Teaching

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: Very useful and Good Teaching

PROLIFIC

An ISO 9001:2000 Certified Co.

Name : C. Vaishnavi
College Name : SSM Institute of Engineering and Technology
Department : EEE
Year : III
Mail ID : vaishnavi.chandran120@gmail.com
Permanent Address: 5/16 B, Telivinayagar temple street,
Arunimonti Nagar, Dindigul - 624005

Date : 14/5/22

After Graduation:
 Job Higher Studies

Training Interested In -
 Short term Training Program in College premises
 Post Graduate Diploma in Industrial Automation at Prolific - (100% Placement)
 Post Graduate Diploma in Embedded Systems at Prolific - (100% Placement)
 Short term Training Program at Prolific

Feedback: Good teaching, its really useful

Dr. D. SENTHIL KUMARAN, M.E., Ph.D.,
Principal
SSM Institute of Engineering and Technology
Kuttathuzeti Village, Sindalagundu(Po),
Palam Road, Dindigul - 624002.

CERTIFICATE

In recognition of the commitment to achieve Professional Excellence, it is certified that

RISHIKARAN R

Has successfully completed Technological Teaching on "Industrial Automation" covering,

- PLC
- SCADA
- VFD

Conducted for 5 days during the period 09.05.22 to 13.05.22 at

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY - EEE Department, Dindigul.




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

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In recognition of the commitment to achieve Professional Excellence, it is certified that

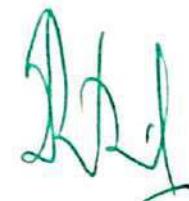
RESHMA. P

Has successfully completed Technological Teaching on "Industrial Automation" covering,

- PLC
- SCADA
- VFD

Conducted for 5 days during the period 09.05.22 to 13.05.22 at

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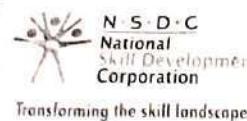
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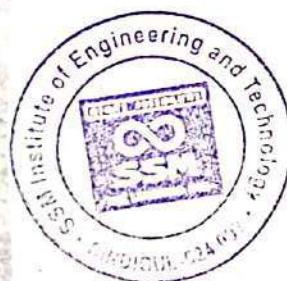
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Principal
SSM Institute of Engineering and Technology
Kulandaiyur Village, Sindalagundu (P.O),
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Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology,
Kuttathupatti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

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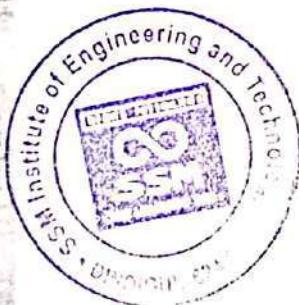
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Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu(Po),
Palani Road, Dindigul - 624 002

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