

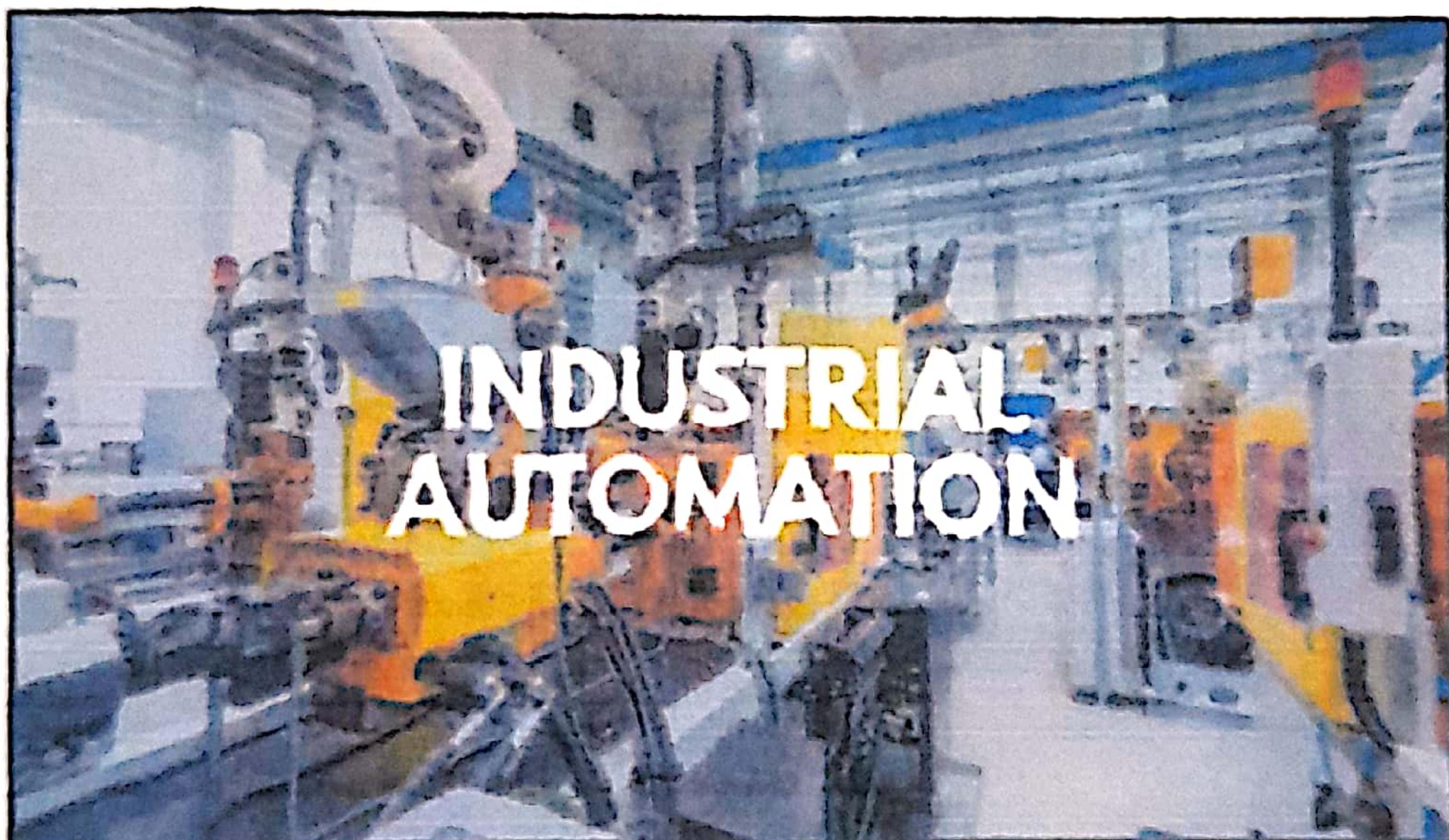


SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

Technology Training Programme on Industrial Automation



2021-22 (Odd Semester) IV Year EEE

(18.10.2021 – 23.10.2021)

Trained by

Shree Technologies Private Limited, Coimbatore

**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY,
DINDIGUL,**

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Technology training on Industrial Automation

2021-22 (Odd Semester)

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From

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

To

The Principal,
SSMIET
Dindigul.

Through,

The HOD
Department of EEE
SSMIET,
Dindigul

Respected Sir,

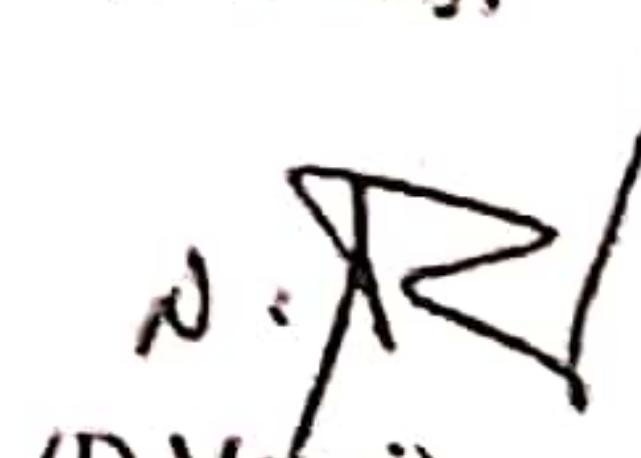
Sub: Seeking permission to conduct five days value added program on "Industrial Automation" -reg,

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

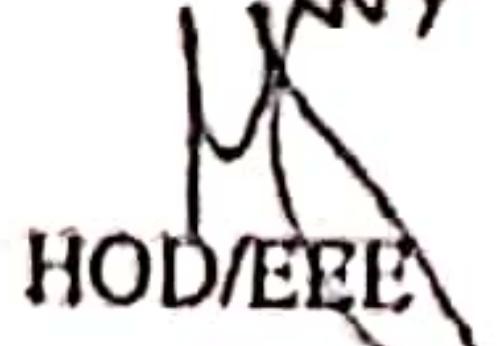
Thanking you

Yours truly,


(D.Manoj)


PRINCIPAL

Dindigul
13.10.2021


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	afinsithik7@gmail.com	9788540121
2.	922118105002	ALAQUE, A	alaque1@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	VISWAKSHIENAN. J	viswakshienan10102000@gmail.com	9566564286
28.	922118105301	GOPALAKRISHNAN. L	davidkrish22@gmail.com	9976843380
29.	922118105302	KARTHICK .S	sivakarthik9787@gmail.com	9952657678
30.	922118105305	MUKESH. B	mugi2942000@gmail.com	6374935078
31.	922118105306	NAVANEETHA PANDIAN .P	naveenpandi02@gmail.com	9003719056
32.	922118105307	PRAVINKANTH. K	kpkanth05@gmail.com	8248858727

Faculty Incharge



HoD EEE

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

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

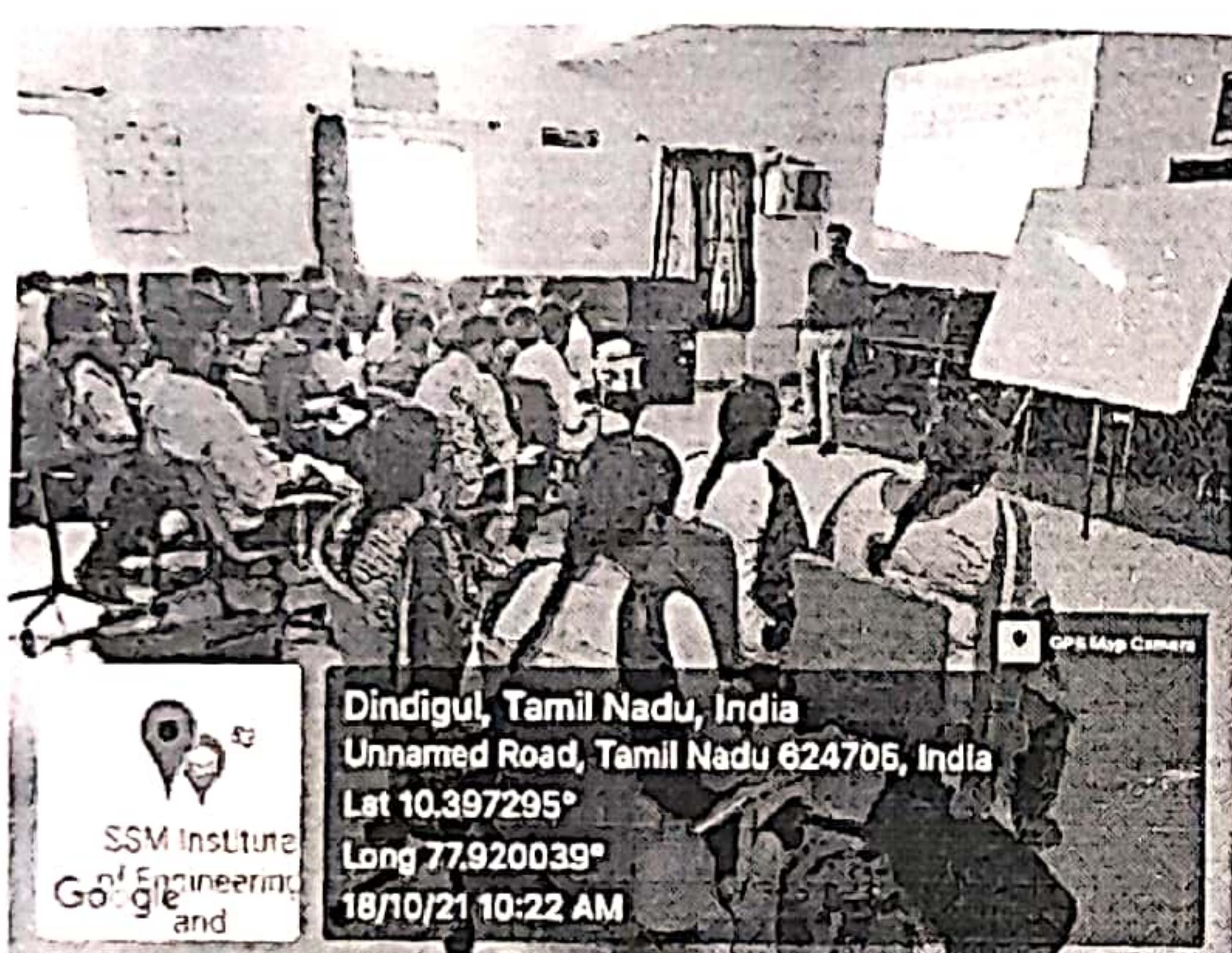
SSM Institute of Engineering and Technology, Dindigul -02.

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

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

Principal

SSM Institute of Engineering and Technology

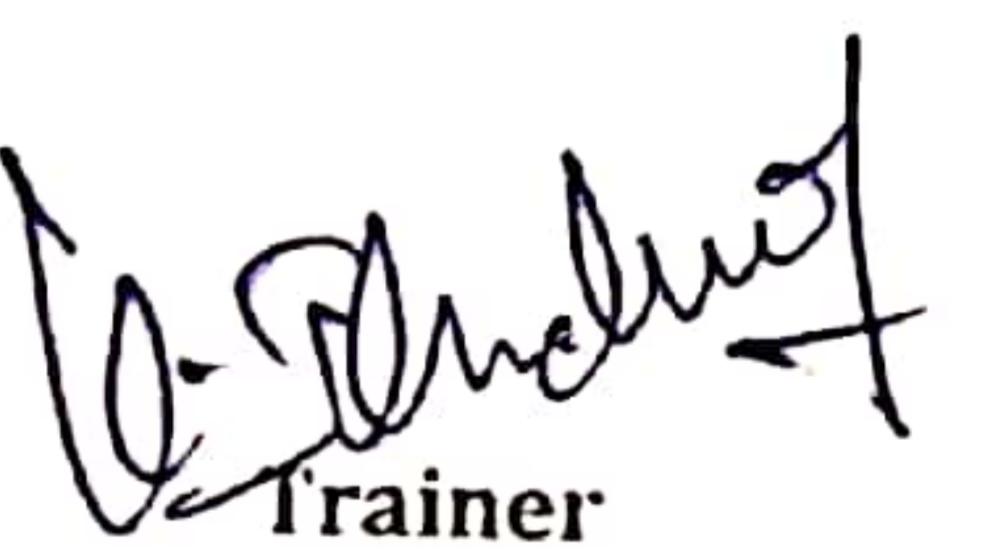
Kuttathupatti Village, Sindhalagundu (Po),

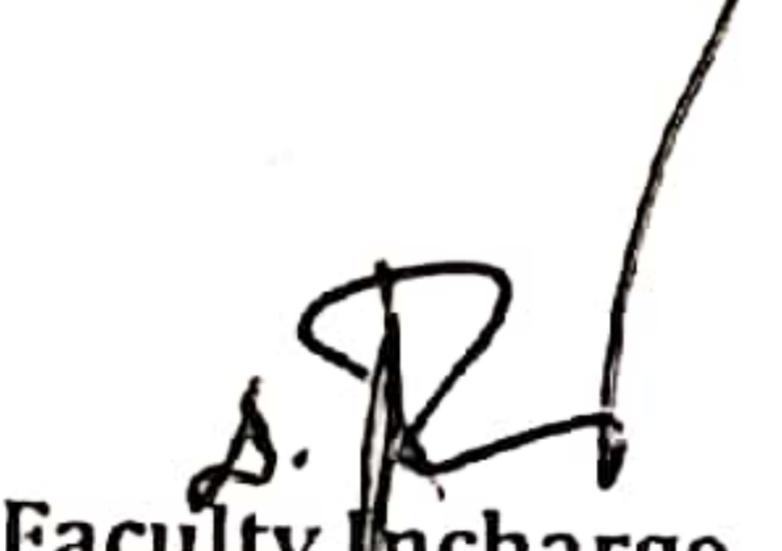
Shanmugam Road, Dindigul - 624 002.

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

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.Ant									
2	922118105002	ALAQUFA A	A.Shy									
3	922118105003	ARAVINTH M	M.Aravinth									
4	922118105004	ARUN KUMAR P	P.Daruf									
5	922118105005	ASMITHA B	B.Asing									
6	922118105006	BALAKUMARAN A S	A.S.Bally									
7	922118105007	DHANALAKSHMI MP	M.P.Sher									
8	922118105008	GEETHANJALI S	S.Gudhi									
9	922118105009	GOPI C	C.j.C									
10	922118105010	GOWRI M	M.Git									
11	922118105011	GUNASEELAN A	A.Gunug									
12	922118105012	KANAKKU PICHAI S	←	N/A	—	—	—	—	—	—	→	—
13	922118105013	KESAVAN K	←	N/A	—	—	—	—	—	—	→	—
14	922118105014	MONESH P	P.Mel									
15	922118105015	NAGAMUTHUPANDIA	X.IB									
16	922118105016	NIYAZ AHAMED K	C.Raj									
17	922118105017	PADMANABHAN D	D.P.t									
18	922118105018	POOJA R	R.Priya									
19	922118105020	PRAVEEN K	Praveen									
20	922118105021	RAJ KUMAR K	K.Raj									
21	922118105022	RAM KUMAR P	P.Rahul									

S.No.	Reg.no.	Student Name	18.10.21		20.10.21		21.10.21		22.10.21		23.10.21	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
22	922118105023	SABAPATHI S	S. Sathy	S. Sathy	S. Sathy							
23	922118105024	SABARIVASANT	T. Saber	S. Saber	S. Saber							
24	922118105026	SHANKAR GANESH G	G. Ganesh	T. Ganesh	T. Ganesh							
25	922118105027	STERLIN INFANT DASS W	C. Sterlin	C. Sterlin	C. Sterlin							
26	922118105029	SURYAJ	J. Surya	J. Surya	J. Surya							
27	922118105030	THANUJ K	NA	—	—	—	—	—	—	—	—	—
28	922118105031	THAVA HARISH P	TH	TH	TH							
29	922118105033	VIGNESHWARAN K	K. Vignesh	K. Vignesh	K. Vignesh							
30	922118105034	VISWAKSHENAN J	J. Viswakshen	J. Viswakshen	J. Viswakshen							
31	922118105301	GOPALAKRISHNAN L	L. Gopalakrishnan	J. Viswakshen	J. Viswakshen							
32	922118105302	KARTHICKS	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks	K. Karthicks
33	922118105303	MARIA LEO ARUNA A	MA	MA	MA							
34	922118105305	MUKESH B	Mukesh	Mukesh	Mukesh							
35	922118105306	NAVANEETHA PANDIAN P	P. Navaneetha	P. Navaneetha	P. Navaneetha							
36	922118105307	PRAVINKANTH K	P. Pravinkanth	P. Pravinkanth	P. Pravinkanth							


Trainer


Faculty Incharge


HOD EEE


Principal

Dr.D.SENTHIL KUMARAN, M.B., Ph.D., MUS
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (P.O),
raian Road, Dindigul 624 002



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	KARTHICK S	11
30	922118105305	MUKESH B	9
31	922118105306	NAVANEETHA PANDIAN P	12
32	922118105307	PRAVINKANTH K	17

Faculty incharge

HoD/EEE



सर्वभूत जन्मते

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

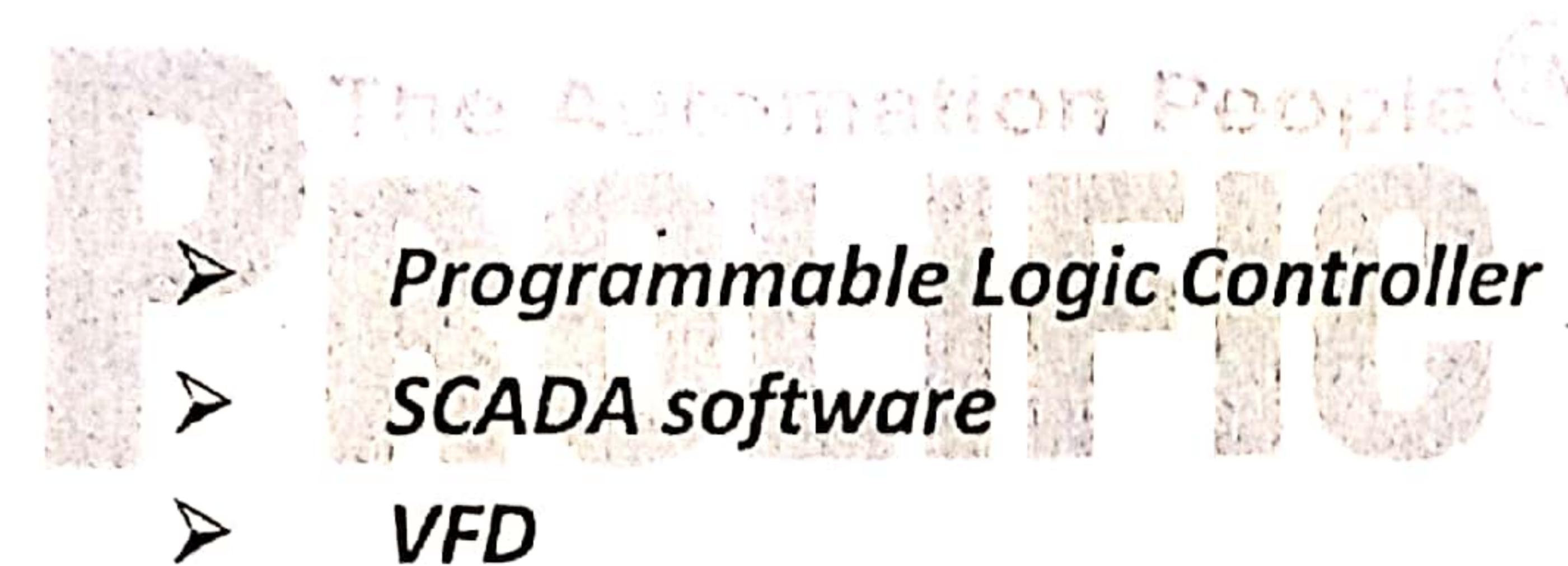
CERTIFICATE

PROLIFIC
ASIA'S LARGEST INDUSTRIAL
TRAINING COMPANY

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

SABAPATHI S

Has successfully completed a Value Added Training Program on **INDUSTRIAL AUTOMATION** covering,



Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul.

PROLIFIC SYSTEMS & TECHNOLOGIES PVT. LTD.

- An Affiliate of Aref Group (Kuwait)
- Funded by Can Bank, VC Fund, owned by Canara Bank

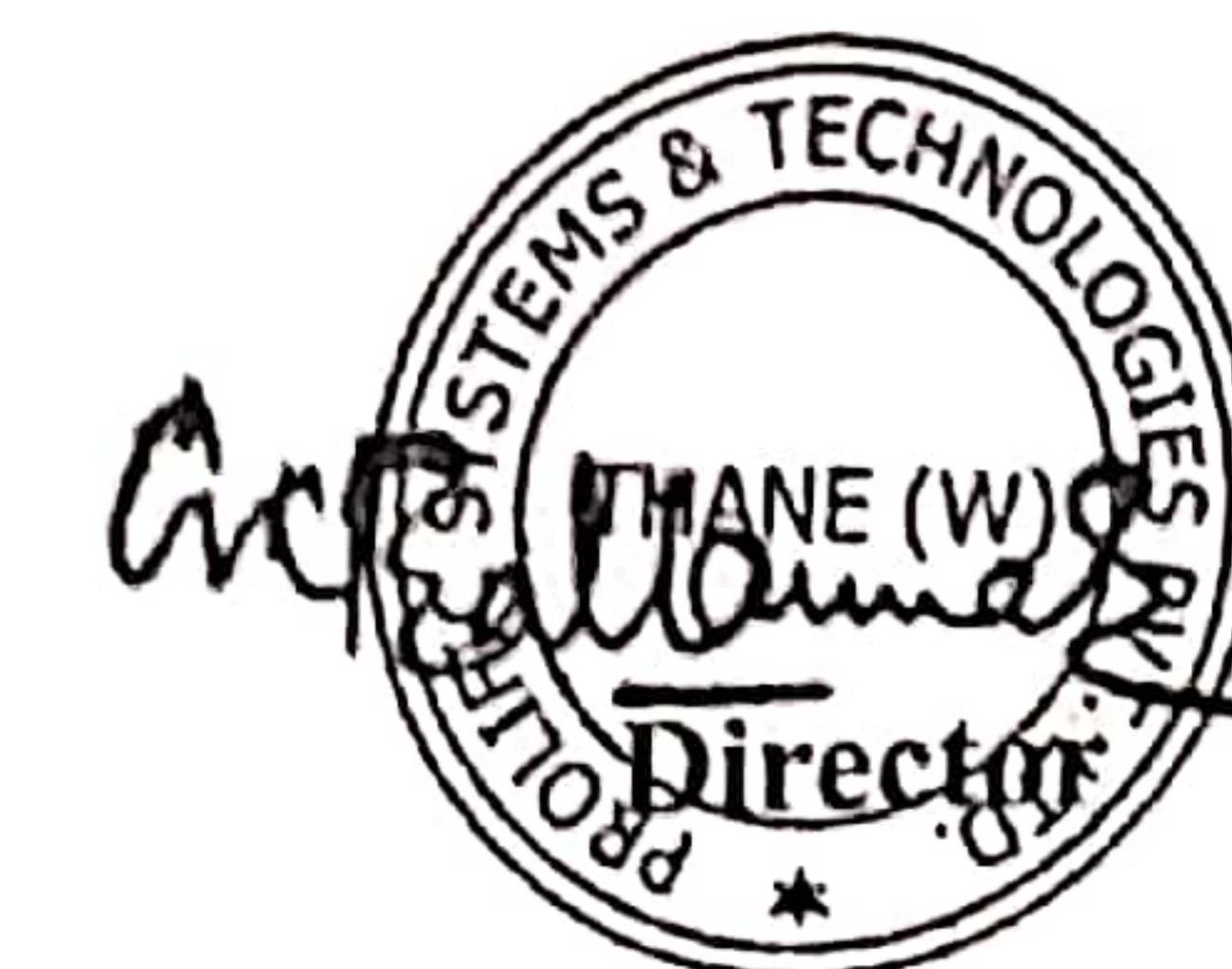
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GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP



N-S-D-C
National
Skill Development
Corporation
Transforming the skill landscape

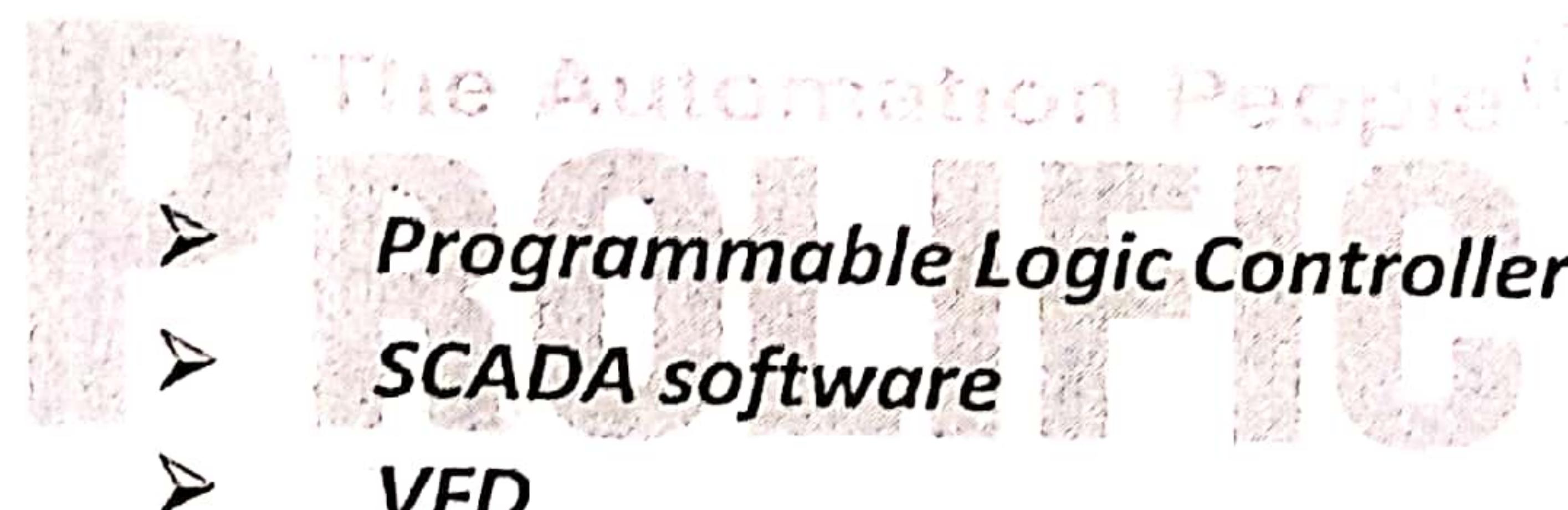
CERTIFICATE

PROLIFIC
ASIA'S LARGEST INDUSTRIAL
TRAINING COMPANY

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

RAJ KUMAR K

Has successfully completed a Value Added Training Program on **INDUSTRIAL AUTOMATION** covering,



Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul.

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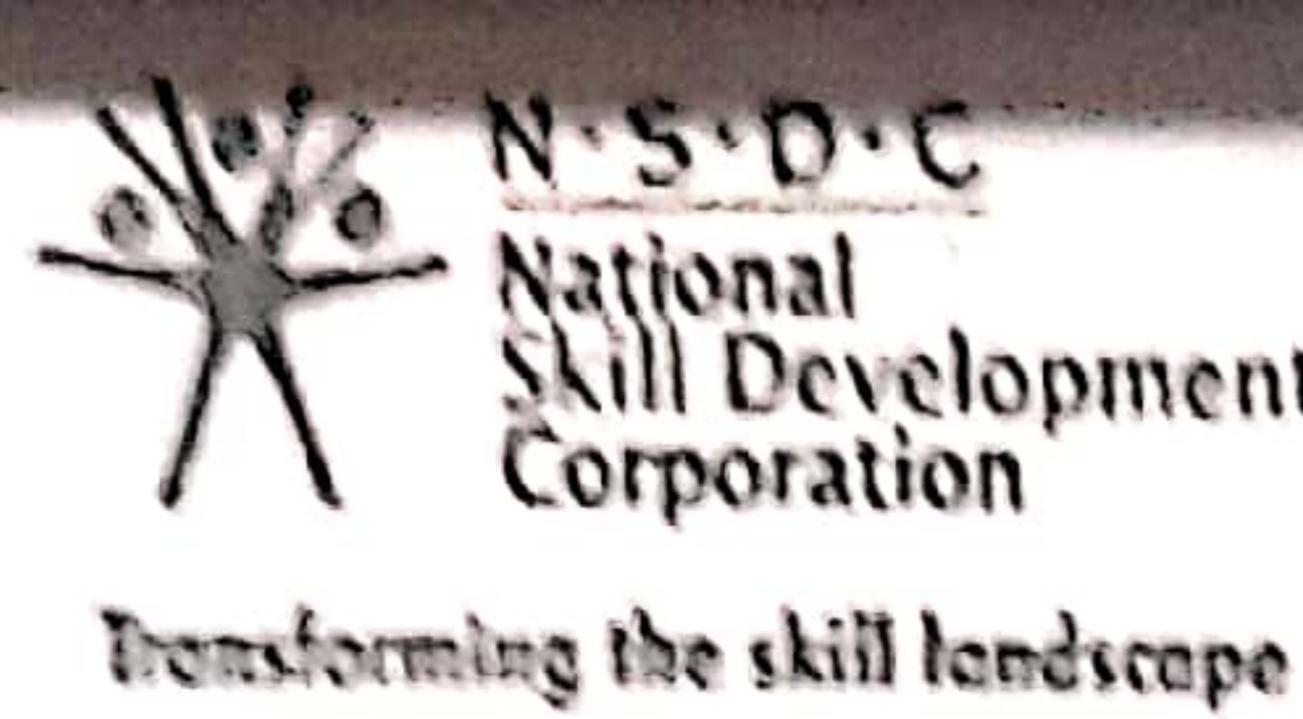
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Accredited Courses

An ISO 9001-2008
Certified Company





सर्वोन्नति भवते

GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP

CERTIFICATE

PROLIFIC

ASIA'S LARGEST INDUSTRIAL
TRAINING COMPANY

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

PRAVEEN K

Has successfully completed a Value Added Training Program on **INDUSTRIAL AUTOMATION** covering,

- Programmable Logic Controller
- SCADA software
- VFD

Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, Dindigul.

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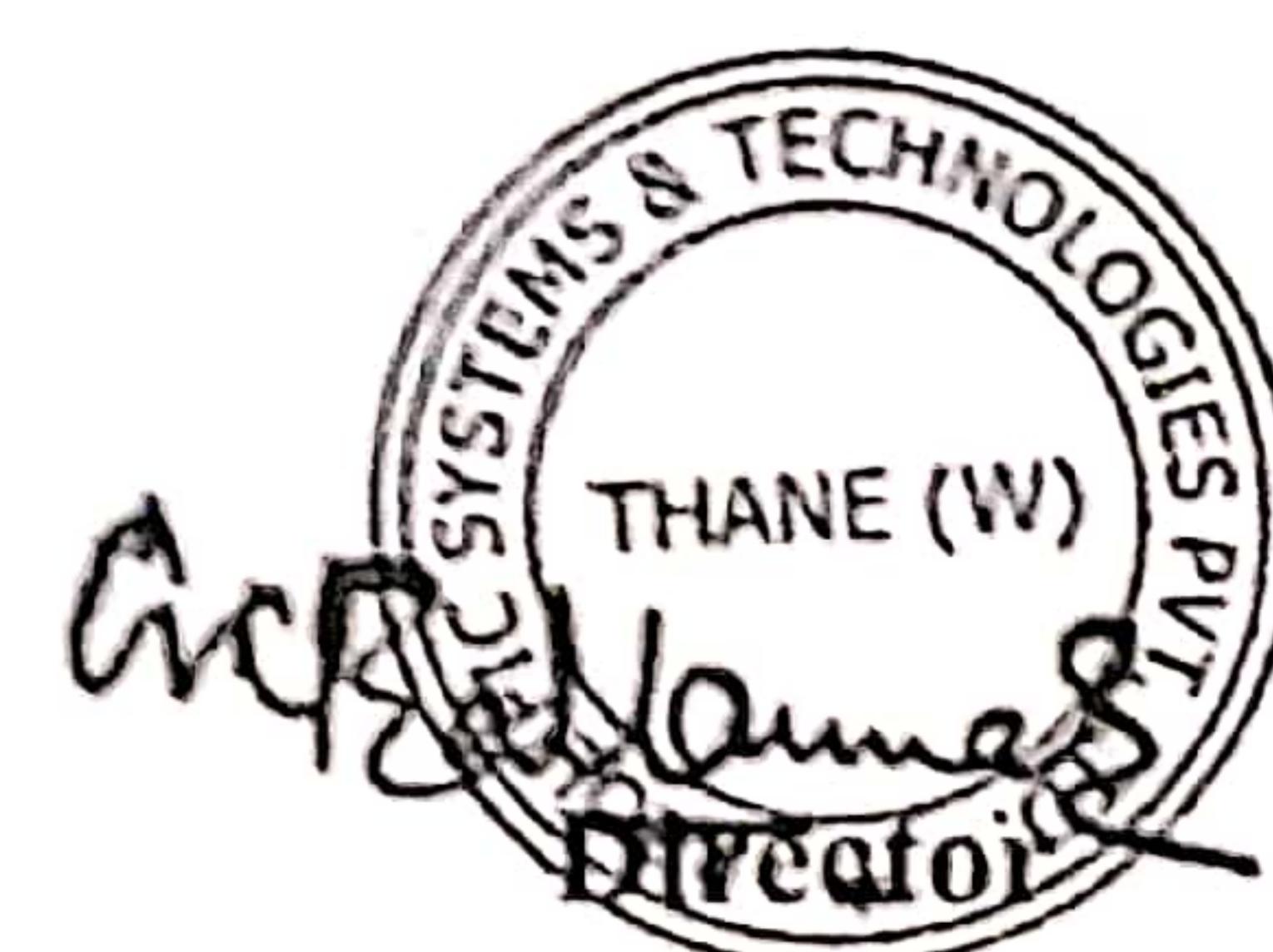
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National Skill Development Corp / Govt. of India Approved Training Company



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Accredited Courses

An ISO 9001-2008
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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 / 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

.....It....is....useful....for....our....Career.....
.....communication....is....good.....

Signature of the student with name M.P. Dhanalakshmi

M.P. Dhanalakshmi



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 - 07

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.

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		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.....

A.Gruvalan (A.Gruvalan)

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: IV / 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

Very good, Excellent teaching.....

K. Vigneshwaran

Signature of the student with name

K. VIGNESHWARAN.

**SHREE TECHNOLOGIES & 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) IQ

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

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

19. Lights, lamps, motors are connected to
 a) Analog output b) Digital output c) Analog input d) Digital input

20. What is meant by SCADA?

21. 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.