

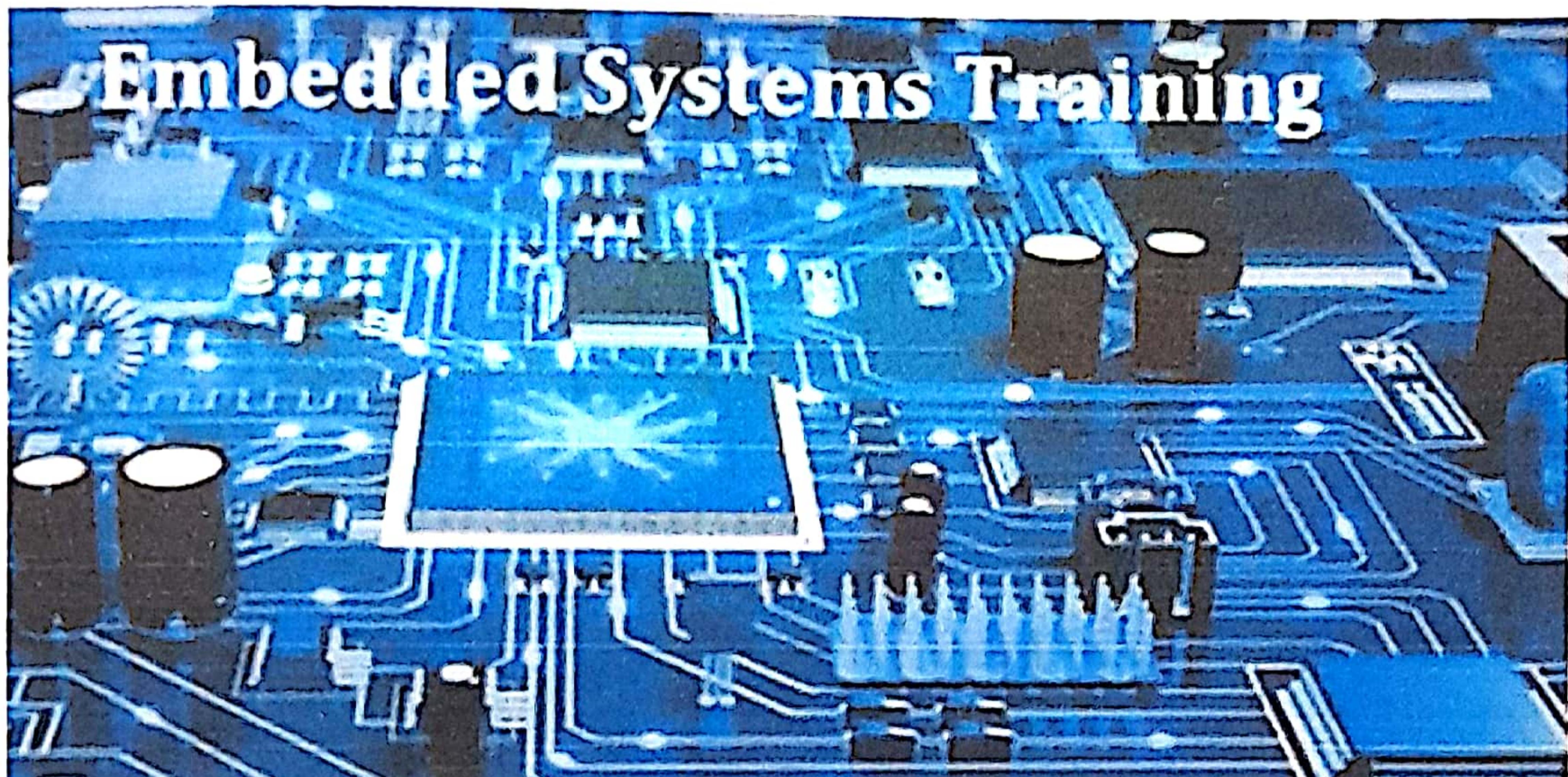


## **SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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 Embedded System**



**2021-22 (Even Semester) II Year EEE**

**(23.05.2022 – 28.05.2022)**

**Trained by**

**Shree Technologies Private Limited, Coimbatore**



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

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Technology training on Embedded System**

**2021-22 (Even Semester)**

**CONTENTS**

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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 Training for II Year EEE Students-Reg

The Department of EEE is planned to conduct Technological Training for Second year students on "Embedded System" which is scheduled on May 2022. In this regard, I request your permission to conduct this training on the scheduled month. Kindly do the needful.

\*The quotation details, syllabus and Training Schedule are attached with this letter.

Name of the Technological Training	Name of the Company	Total Number of Students	No of Hours	Date	Amount	Coordinator/Faculty in Charges
Training on Embedded System	PROLIFIC Systems and Technological Pvt. Ltd, Coimbatore	22 (Rs.1200 Per Student)	60	23.05.22 to 28.05.22	Rs.26,400	D.Manoj,A.P/EEE P.Siva Subramanian,A.P/EEE

Resource Person Details:

Mr. S. Raja, CRG Engineer

Thanking you,

Yours faithfully

(Dr.G.Mohanbabu)

From

Mr.Siva Subramanian  
Assistant Professor,  
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.

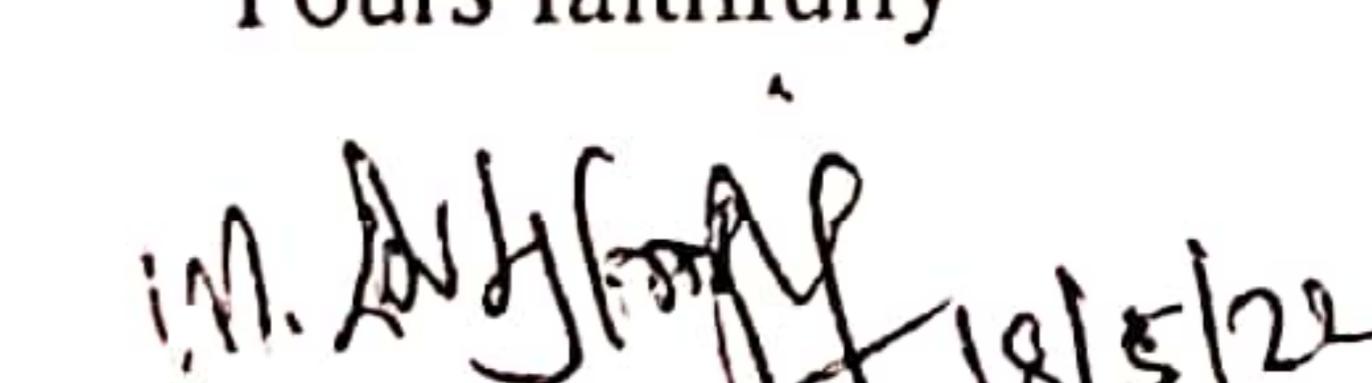
Respected Sir,

Sub: Accommodation and Food arrangements for Trainer-Regarding

As a part of student's skill development, Department of EEE has planned to conduct Technological Training for **Second year students**. In this regard, kindly provide **accommodation and food** for Trainers in our campus for conducting this training in planned timing. Hence I request you to provide permission for accommodation and food.

Name of the Trainers	Training Dates	Number of Days Needed for Accommodation and Food
Mr. S. RAJA	23-05-2022 to 28-05-2022	06 (Breakfast, Lunch, Dinner )

  
Yours faithfully

  
(Mr.P.Siva Subramanian)

Forwarded to the Principal



**SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**Department of Electrical and Electronics Engineering**  
**II year B.E. Name List (2020-2024)**

S. No.	Reg.no.	Student Name
1	922120105001	M.Akashkumar
2	922120105002	S.A.Amanulla
3	922120105003	P.M.Balaji
4	922120105004	R.Bharathi
5	922120105005	R.Dineshkumar
6	922120105006	T.Geethanjali
7	922120105007	P.Jothiselvam
8	922120105008	N.Karthikeyan
9	922120105009	M.Mariaraj
10	922120105010	S.Mohamedaburar
11	922120105011	S.Mohamedkasim
12	922120105012	M.Monesh
13	922120105013	S.Preethi
14	922120105014	M. Preethiviraj
15	922120105015	T.Rohith
16	922120105016	S.Sadhamhussain
17	922120105017	S.Sangarapandi
18	922120105018	R.Shanmugavel
19	922120105019	M.suriyaprakash
20	922120105020	V.Tamilselvan
21	922120105021	H. Thirsathdaniel
22	922120105301	M.Hariprasath
23	922120105302	R.Sharankailash



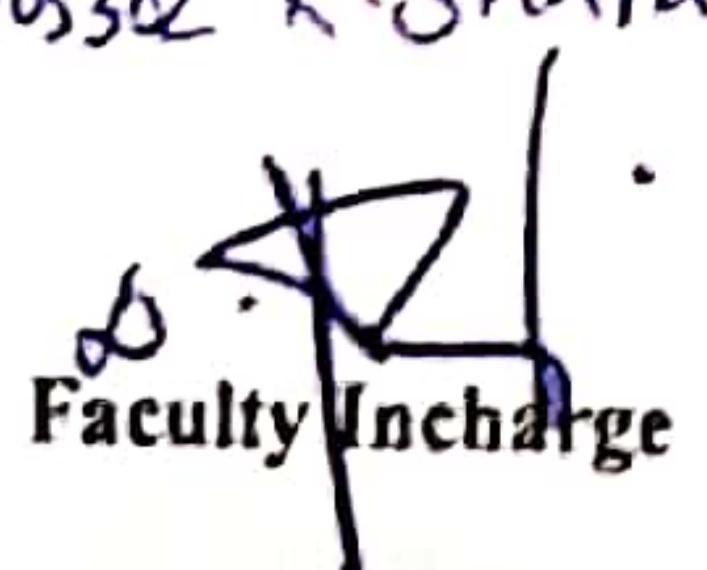
Faculty In-charge

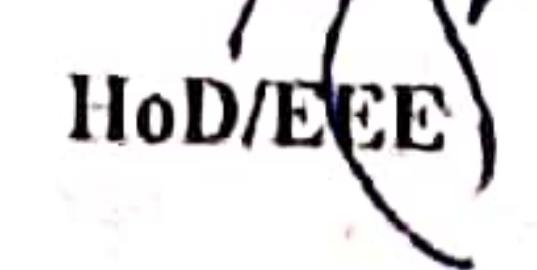


HoD/EEE

ELECTRONICS ENGINEERING  
TECHNOLOGICAL TRAINING ON "EMBEDDED SYSTEM AND IOT"  
ATTENDANCE SHEET

S.No.	Student ID	Student Name	23.05.22		24.05.22		25.05.22		26.05.22		27.05.22		28.05.22	
			FN	AN										
1	922120105001	M.Akashkumar	M.akash kumar											
2	922120105002	S.A.Amanulla	S.A. Ally											
3	922120105003	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji	P.M.Balaji
4	922120105004	R.Bharathi												
5	922120105005	U.Dineshkumar	u.Dinesh kumar											
6	922120105006	T.Geethanjali	T.Geo.I.T											
7	922120105007	P.Jothiselvam	P.Jeo											
8	922120105008	N.Karthikeyan	N.Karthi keyan											
9	922120105009	M.Mariaraj	M.Maria raj											
10	922120105010	S.Mohamed aburar	S.Mohamed aburar											
11	922120105011	S.Mohamed kasim	S.Mohamed kasim											
12	922120105012	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh	M.Monesh
13	922120105013	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi	S.Preethi
14	922120105014	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj	M.Preethiviraj
15	922120105015	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith	T.Rohith
16	922120105016	S.Sadham hussain	S.Sadham hussain											
17	922120105017	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi	S.Sangarapandi
18	922120105018	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel	R.Shanmugavel
19	922120105019	M.suriya prakash	M.suriya prakash											
20	922120105020	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan	V.Tamilselvan
21	922120105021	H.Thirsath daniel	H.Thirsath daniel											
22	922120105301	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath	M.Hariprasath
23	922120105302	R.Sharran kailash	R.Sharran kailash											

  
Faculty Incharge

  
HoD/EEE

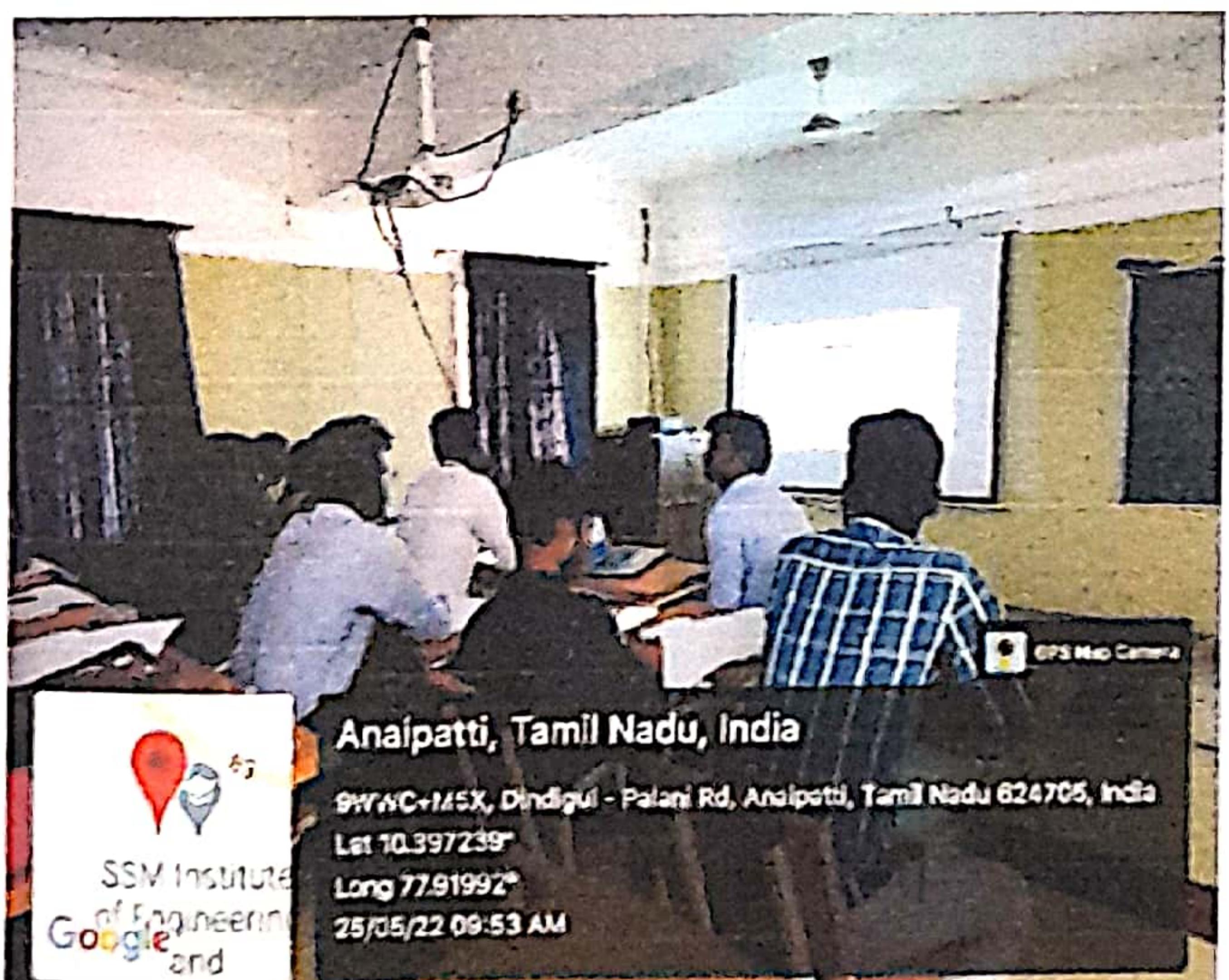
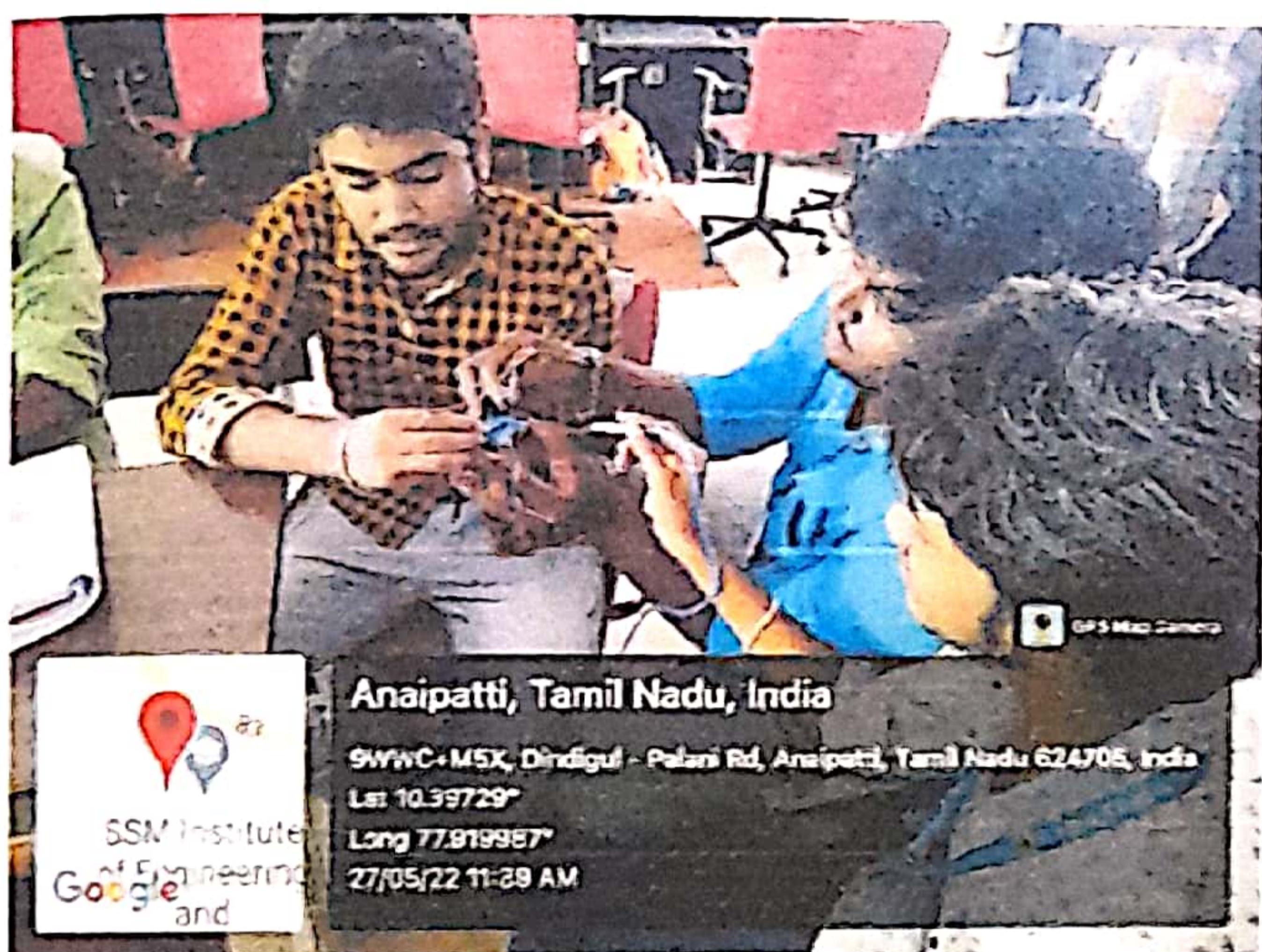
  
Principal

# 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 Embedded System** from 23<sup>rd</sup> May 2022 to 28<sup>th</sup> May 2022. The course covered topics including Introduction to PIC microcontroller, LCD Interfacing, switch and sensor interfacing, motor and Relay Interfacing, Arduino IDE Node MCU, and ESP 8266. 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.

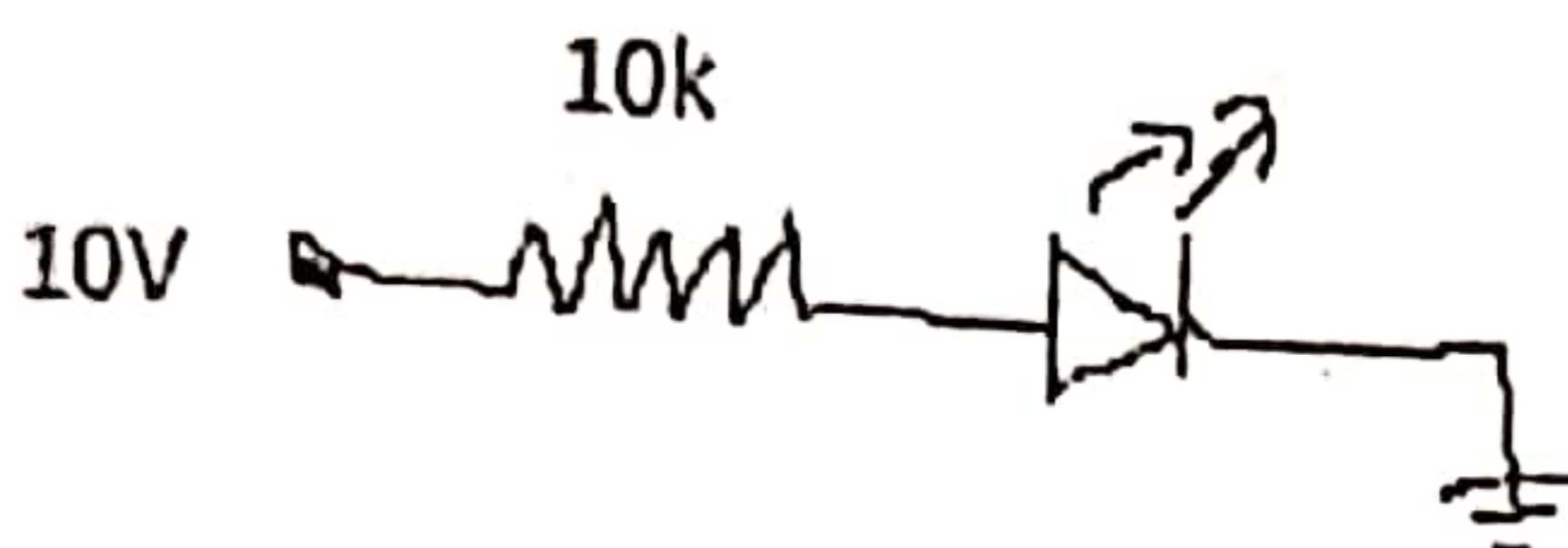


13  
20  
Rdz

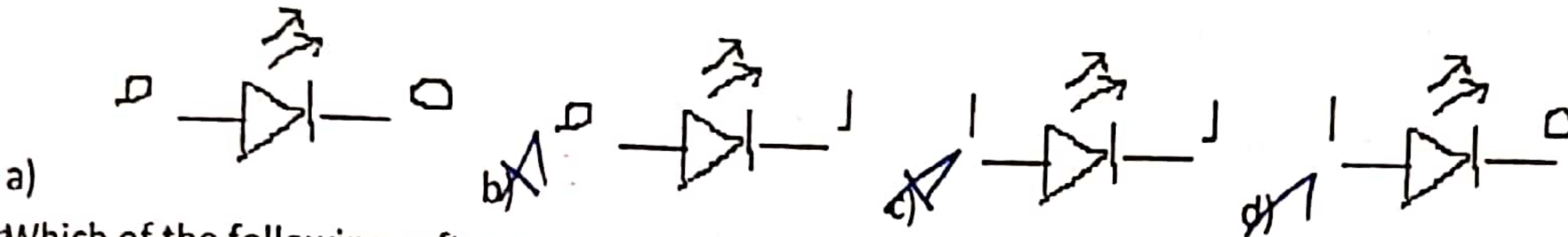
## EMBEDDED SYSTEM

Choose the best:

- 1) How many Ports are there in PIC16F877A microcontroller
  - a) 3
  - b) 4
  - c) 5
  - d) 6
- 2) Which of the following port of PIC16F877A has 3 pins only
  - a) RA
  - b) RB
  - c) RD
  - d) RE
- 3) What is the programming environment used to develop programs for PIC microcontrollers
  - a) Kell
  - b) Matlab
  - c) Arduino
  - d) MP LAB
- 4) In the circuit find current through ideal LED
  - a) 1A
  - b) 1mA
  - c) 1 uA
  - d) 100mA



- 5) Which LED will emit light



- 6) Which of the following software tool suite is primarily used by Electronic Design Automation Engineers
  - a) SCADA
  - b) Proteus design suite
  - c) Pro E
  - d) AutoCAD

7) int i; for(i=0;i<100;i++); print(i)

In this program, i is printed as

- a) 0,1,2.....99
- b) 0,1,2.....100
- c) 1,2,3...99
- d) 1,2,3.....100

8) Int a,b,c;

If (a=b);

print(0);

if (b=c);

print(1);

if (c=a);

print(2);

if (a=b=c);

print(3)

In this program, the result value is 2 when

- a) a=b
- b) b=c
- c) c=a
- d) a=b=c

9) In which of the following LED can work properly

- a) DC voltage
- b) AC voltage
- c) AC current
- d) Both a and b

10) What is a compiler

- a) Analog circuit that reduces the voltage level in output
- b) Digital circuit that reduces the voltage level in output
- c) Tool which is used to convert the programming language into machine language
- d) None of the above

- 11) Which of the following define the RA port's 0<sup>th</sup> pin as output pin in PIC16F877A  
a) TRISA0=0    b) TRISA0=1    c) TRISA=0    d) TRISA=1
- 12) TRISB=0 means  
a) RB as input    b) RB as output    c) RB0 as input    d) RB0 as output
- 13) What is the header file for PIC microcontrollers  
a) Pic.h    b) Picic.h    c) Cip.h    d) Cipic.h
- 14) PIC expansion  
a) Peripheral Interface Controller  
b) Pictorial Indication Controller  
c) Peripheral interchange controller  
d) None of these
- 15) Which of the following Port of pic16f877a does not have 8 pins  
a) RA    b) RB    c) RC    d) RD
- 16) What is the Hex Code to display "2" in 7 segment display(Common anode) assume dp as zero  
a) 02    b) ad    c) da    d) 24
- 17) What is the Hex Code to display "8" in 7 segment display(Common cathode) assume dp as zero  
a) Fe    b) ff    c) ff    d) 9a
- 18) If 10 MHz frequency signal is set as input to a microcontroller, What is time period of the controller  
a) 100 msec    b) 1 msec    c) 10 usec    d) 1000 sec
- 19) In Arduino IDE delay(1000) command makes how much delay  
a) 1 sec    b) 10 sec    c) 1000 sec    d) 0.1 sec
- 20) ESP8266 is a ..... module  
a) Wi-Fi    b) ISP    c) GSM    d) GPS

13/29  
pds

922120105016

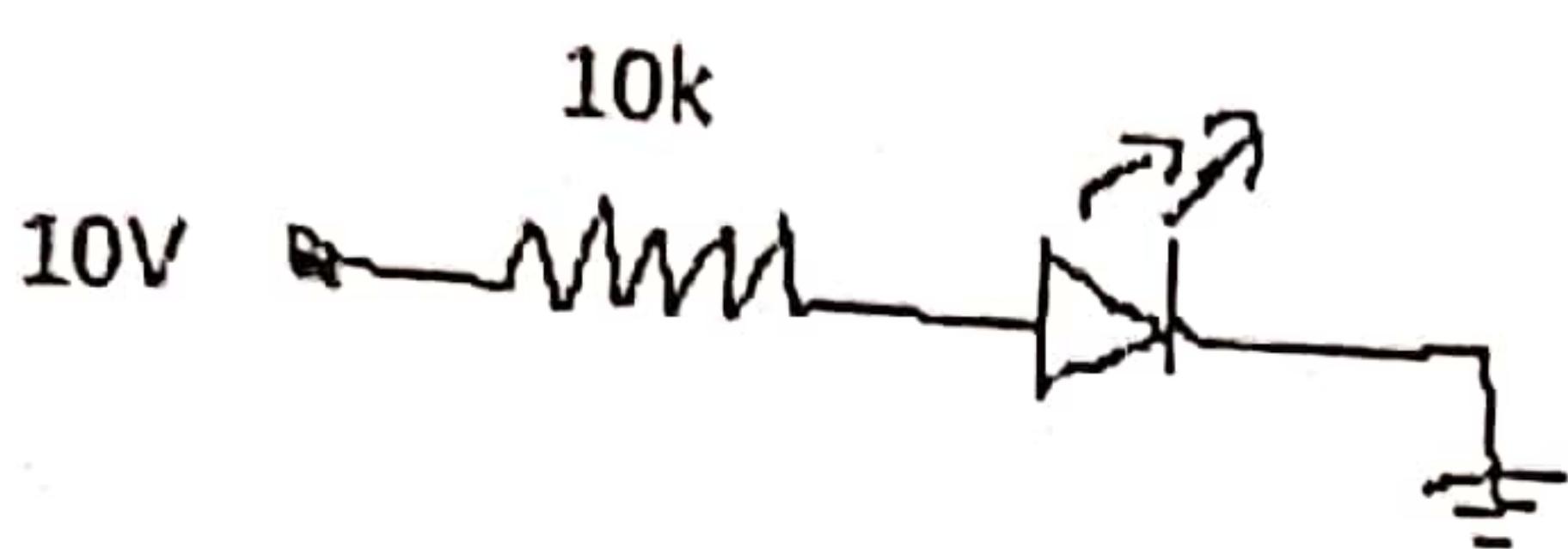
S. SADHAM HUSSAIN

EEE → 2 YEAR

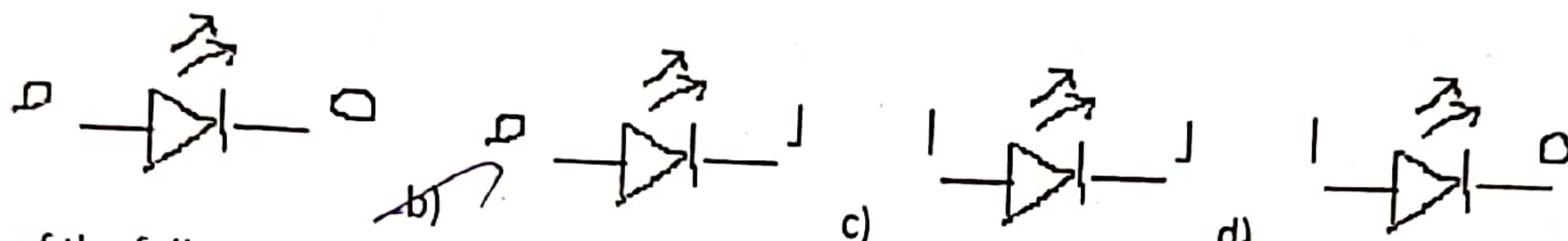
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- ✓ 4) In the circuit find current through ideal LED
  - a) 1A
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  - c) 1 uA
  - d) 100mA



- 5) Which LED will emit the light



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- b) RB as output
- c) RBO as input
- d) RBO as output

✓ 13) What is the header file for PIC microcontrollers

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- b) 00
- c) ff
- d) 9a

✓ 18) If 10 MHz frequency signal is set as input to a microcontroller, What is time period of the controller

- a) 100 msec
- b) 1 msec
- c) 10 usec
- d) 1000 sec

✓ 19) In Arduino IDE delay(1000) command makes how much delay

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- b) 10 sec
- c) 1000 sec
- d) 0.1 sec

✓ 20) ESP8266 is a ..... module

- a) Wi-Fi
- b) ISP
- c) GSM
- d) GPS

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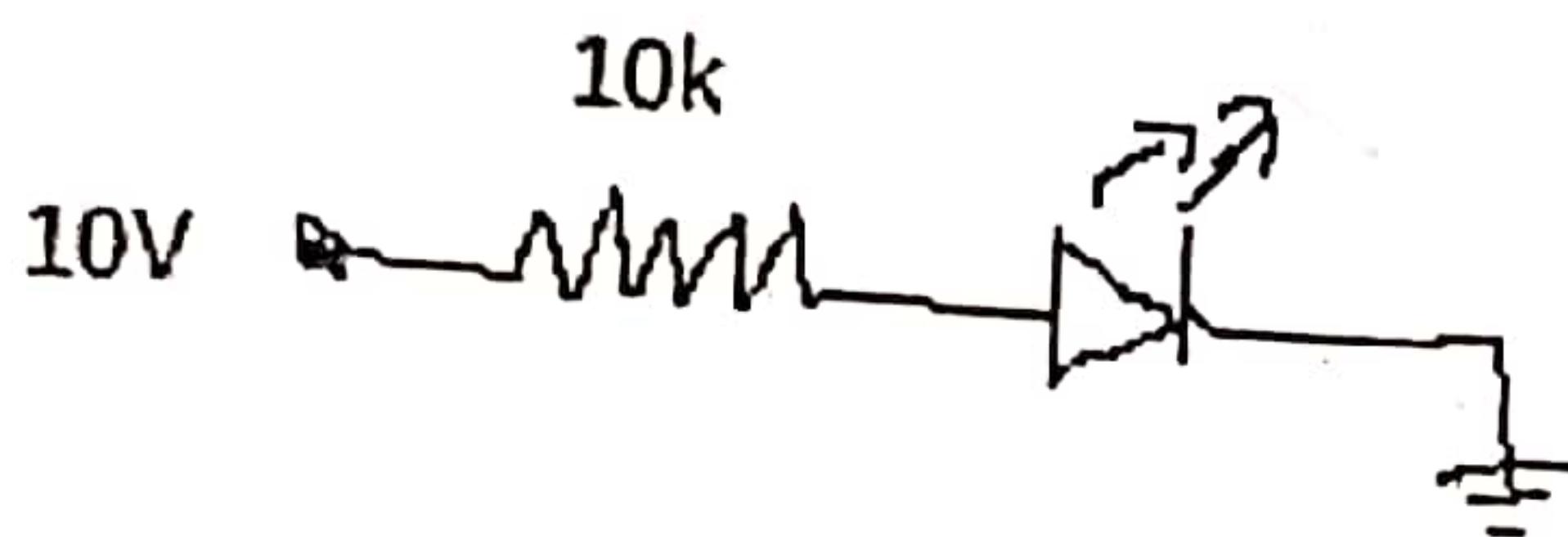
S. Mohamed Kasim



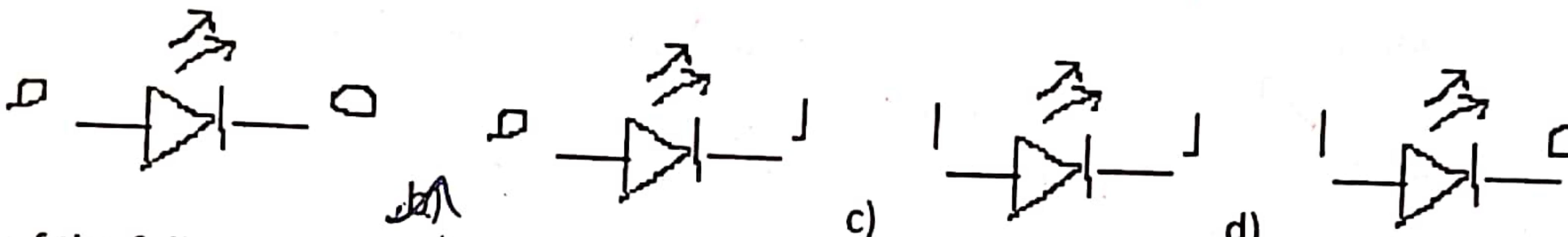
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- ✓ 8) a) 0,1,2....99 b) 0,1,2....100 c) 1,2,3...99 d) 1,2,3....100

✓ 9) Int a,b,c;

```
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print(0);  
if (b=c);  
print(1);  
if (c=a);  
print(2);  
if (a=b=c);  
print(3);
```

In this program, the result value is 2 when

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✓ 10) In which of the following LED can work properly

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20) ESP8266 is a ..... module

- a) Wi-Fi   b) ISP   c) GSM   d) GPS

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

**H. THIRSATH DANIEL**

Has successfully completed Technological Teaching on "Embedded System" covering,

➤ ***PIC Micro Controller***

Conducted for 6 days during the period 23.05.22 to 28.05.22 at

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

## **PROLIFIC SYSTEMS & TECHNOLOGIES PVT. LTD.**

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

Visit us at : [www.prolifictraining.com](http://www.prolifictraining.com)

National Skill Development Corp. (Govt. of India) Approved Training Company



IAO - USA  
Accredited Courses

An ISO 9001-2008  
Certified Company

*Aref Albaraa*

Director

# CERTIFICATE

ASIA'S LARGEST INDUSTRIAL  
TRAINING COMPANY

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

**R.SHARAN KAILASH**

Has successfully completed Technological Teaching on "Embedded System" covering,

➤ *PIC Micro Controller*

Conducted for 6 days during the period 23.05.22 to 28.05.22 at

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

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Accredited Courses

An ISO 9001-2008  
Certified Company

*Mr. R. Venkatesan*  
Director

# CERTIFICATE

ASIA'S LARGEST INDUSTRIAL TRAINING COMPANY

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

V.TAMILSELVAN

Has successfully completed Technological Teaching on "Embedded System" covering,

➤ *PIC Micro Controller*

Conducted for 6 days during the period 23.05.22 to 28.05.22 at

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IAO - USA  
Accredited Courses

An ISO 9001-2008  
Certified Company

*Aref Al-Banawi*  
Director

## FEEDBACK FORM

TRAINING ON EMBEDDED SYSTEM

Name: Geethanjali. T

Department: EEE Year: II

Contact Number: 9940728577

Mail ID: vinoogeetha22s@gmail.com

Native: MANAPPAKAI

Feedback about the program:

It's useful to improve our knowledge

Signature: DSTPHIT

Date: 28.05.2022

# FEEDBACK FORM

## TRAINING ON EMBEDDED SYSTEM

Name: S PREETHI

Department: EEE Year: II

Contact Number: 8072610205

Mail ID: Preetiisautomation@gmail.com

Native: DIMBIGU

Feedback about the program:

This very useful session, I have learned lots of new things.

Signature: (S) / Date: 28/05/22

# TRAINING ON EMBEDDED

## FEEDBACK FORM

Name: R. SHARAN KAILASH

Department: EEE Year: II

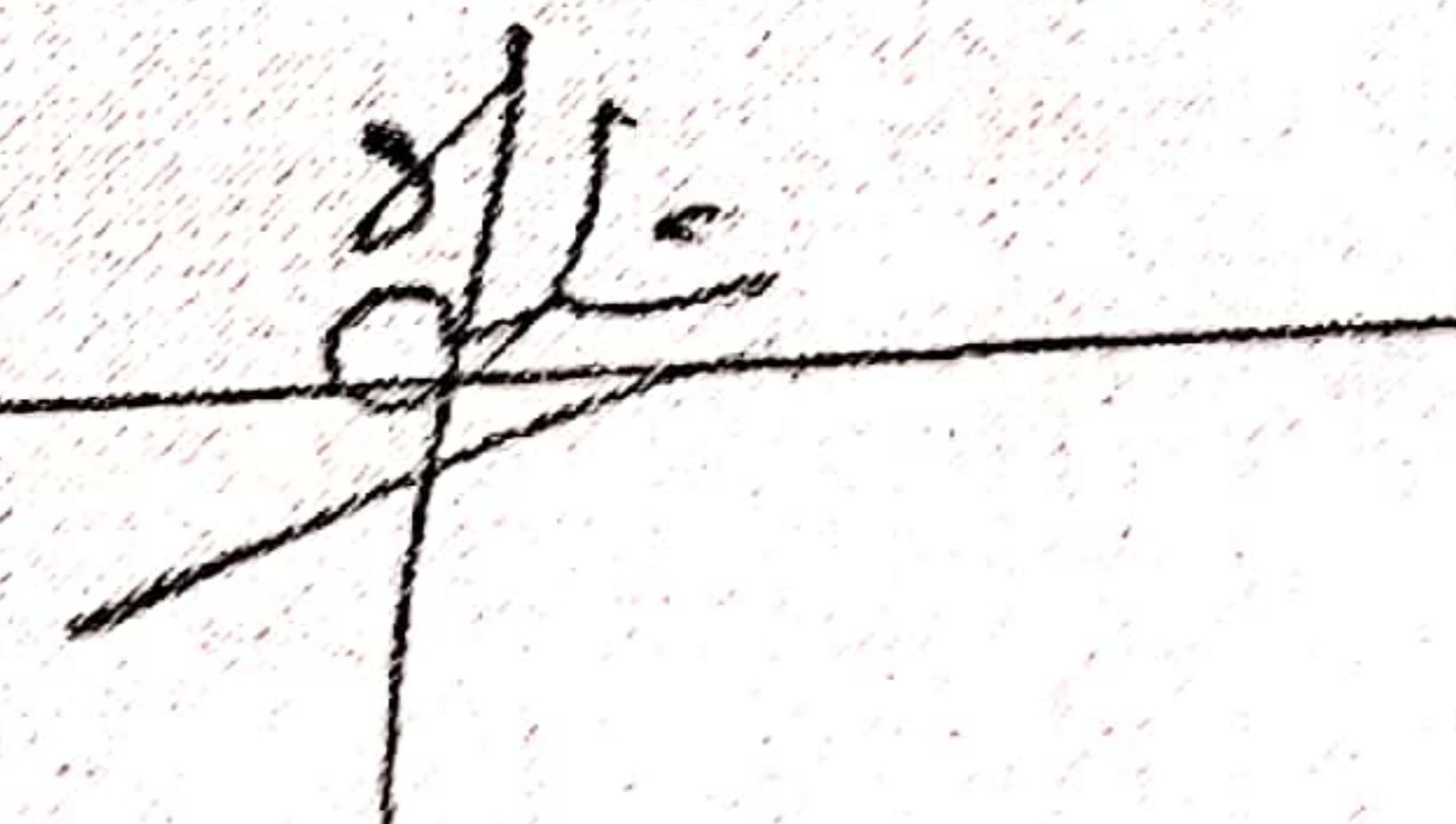
Contact Number: 9080848704

Mail ID: Sharankailash.80@gmail.com.

Native: DINDIGUL

### Feedback about the program:

It is Useful for update our extra skills

Signature:  Date: 06.5.22



**SSM Institute of Engineering and Technology, Dindigul -02.**

**Department of Electrical and Electronics Engineering**

---

**CIRCULAR**

**08.02.2021**

This is to inform that a value added course on **INDUSTRIAL AUTOMATION AND PLC** is going to be conducted for IV-year EEE students Er.K.Illanchezhian, Technical Manager, Shree Technologies Pvt. Ltd. Henceforth interested students are informed to register their name to Mr.V.SivaKumar, AP/EEE on or before 18.02.2021.

A handwritten signature in blue ink, appearing to read 'V. Siva Kumar'.

**Faculty Incharge**

A handwritten signature in blue ink, appearing to read 'HoD/EEE'.

**HoD/EEE**



**SSM Institute of Engineering and Technology**  
Sindalagundu post, Palani main road, Dindigul – 624002 , Tamilnadu.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**IV YEAR NAME LIST (2020-2021)**

S.NO	REGISTER NO	NAME
1	922117105001	AJAY B
2	922117105002	AKSHAYA YOGITHA S
3	922117105004	ANUSHA BHARATHI M
4	922117105005	ANUSHUYA J
5	922117105006	ANUSUYA M
6	922117105007	ASHOK KUMAR M
7	922117105008	BALAJI G
8	922117105009	CHANDRU C
9	922117105010	CYRIL BRITTO P
10	922117105011	DHAARANI V
11	922117105012	DHANABAL M
12	922117105013	DHARSHINI S S
13	922117105014	DINESH R
14	922117105015	DINESHWARAN R
15	922117105016	ELANGOVAN R
16	922117105017	GAYATHRI K
17	922117105018	GAYATHRI S
18	922117105019	GOPINATH M
19	922117105020	GURU PRASATH B
20	922117105021	HEMA PRIYA C
21	922117105022	JANANI ISWARYA K
22	922117105023	JASMINE E
23	922117105024	JEYA KUMAR M
24	922117105025	KAMILA BANU A
25	922117105026	LINGESH B
26	922117105027	MANI BHARATHI S
27	922117105028	MANIKANDAN M
28	922117105029	MANJUBASHINI G
29	922117105030	MATHU MITHA T
30	922117105031	MONIGA M
31	922117105032	MUGESH D
32	922117105033	MUTHU MANI MURUGAN K R
33	922117105034	NITHISH V
34	922117105035	PABITHA T
35	922117105037	POOPATHI P
36	922117105038	PRAJAKTHA K
37	922117105039	PRAKASH RAJ M
38	922117105040	PRAVEEN E
39	922117105041	PRAVEEN P

40	922117105042	PRAVEEN S
41	922117105043	PRAVEEN KUMAR S
42	922117105044	PRIYADHARSINI S
43	922117105046	SAMEEMABANU N
44	922117105047	SANGEERTHANA R
45	922117105048	SATHISHKUMAR G
46	922117105049	SATHISH KUMAR V
47	922117105050	SELVA KUMAR M
48	922117105051	SUDHARSAN M
49	922117105053	THILAK R N
50	922117105054	THIRUMALAI SAMY M
51	922117105055	YESHWANTH S A
52	922117105301	KARTHIK P
53	922117105302	MOHAN KUMAR M
54	922117105501	SHARMILA DEVI B
55	922117105701	CHANDRU G

V. *[Signature]*  
Class Incharge

*[Signature]*  
HoD/EEE



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

## STUDENT FEEDBACK FORM

Year/Sem: IV / V

Date: 20.2.21

Dear Student,

Thank you for your participation Value added course on Industrial Automation and PLC. 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

..... Informative .....

B A

Signature of the student with name

ADY 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

## STUDENT FEEDBACK FORM

Year/Sem: IV / VI

Date: 20.8.21

Dear Student,

Thank you for your participation **Value added course on Industrial Automation and PLC**. 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

.....  
.....  
.....

NIL

Signature of the student with name

G. Balaji



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

## STUDENT FEEDBACK FORM

Year/Sem: A / VII

Date: 20/2/21

Dear Student,

Thank you for your participation Value added course on Industrial Automation and PLC. 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

..... Good .....

..... R. Dinesh  
Signature of the student with name

DINESH R



# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Electrical and Electronics Engineering

Value added course on Industrial Automation

## STUDENT FEEDBACK FORM

Year/Sem: IV | VIII

Date: 20/2/21

Dear Student,

Thank you for your participation **Value added course on Industrial Automation and PLC**. 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

..... *Need more practical sessions* .....

Signature of the student with name *K Gayathri* Date *04/04/21* IC

## 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

## 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

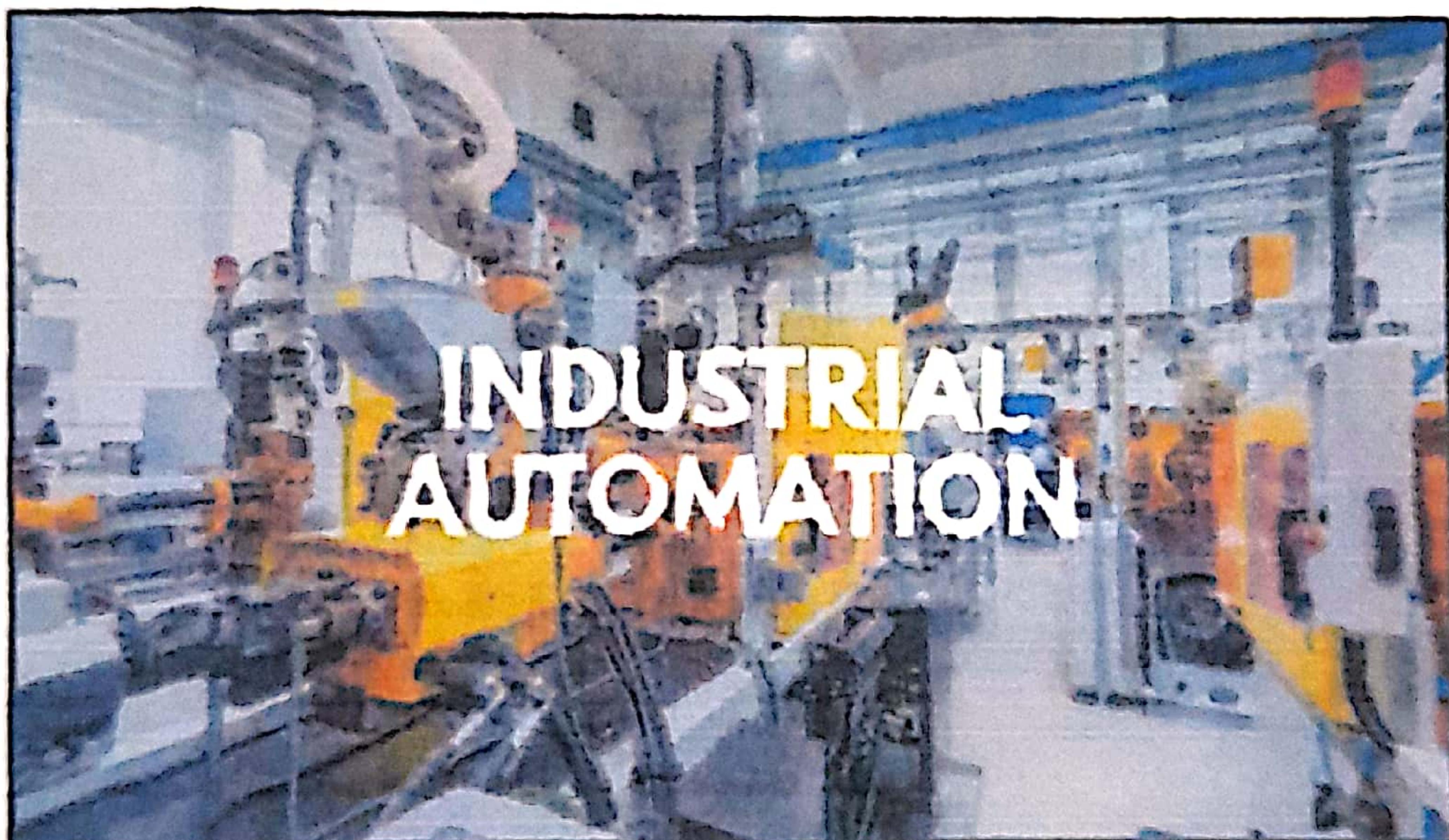


## **SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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)**

**CONTENTS**

S. No.	Particulars	Page No.
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2	Name list of Students	2
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6	Sample Certificates	9-12
7	Student Feedback	13-40
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9	Payment Voucher	51-55
9	Outcome	56

From

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

To

The Principal,  
SSMIET  
Dindigul.

Through,

The HOD  
Department of EEE  
SSMIET,  
Dindigul

Respected Sir,

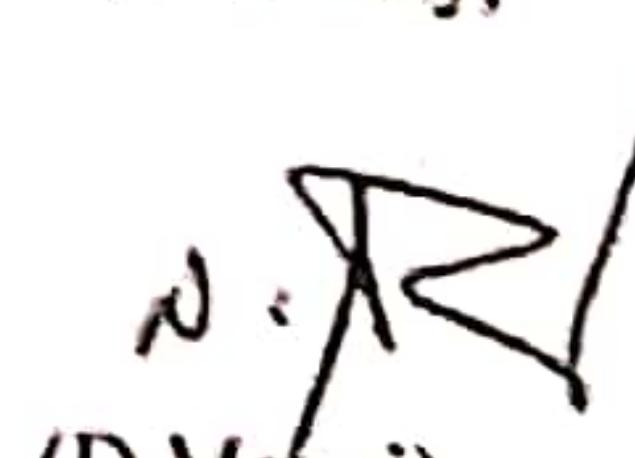
Sub: Seeking permission to conduct five days value added program on "Industrial Automation" -reg,

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

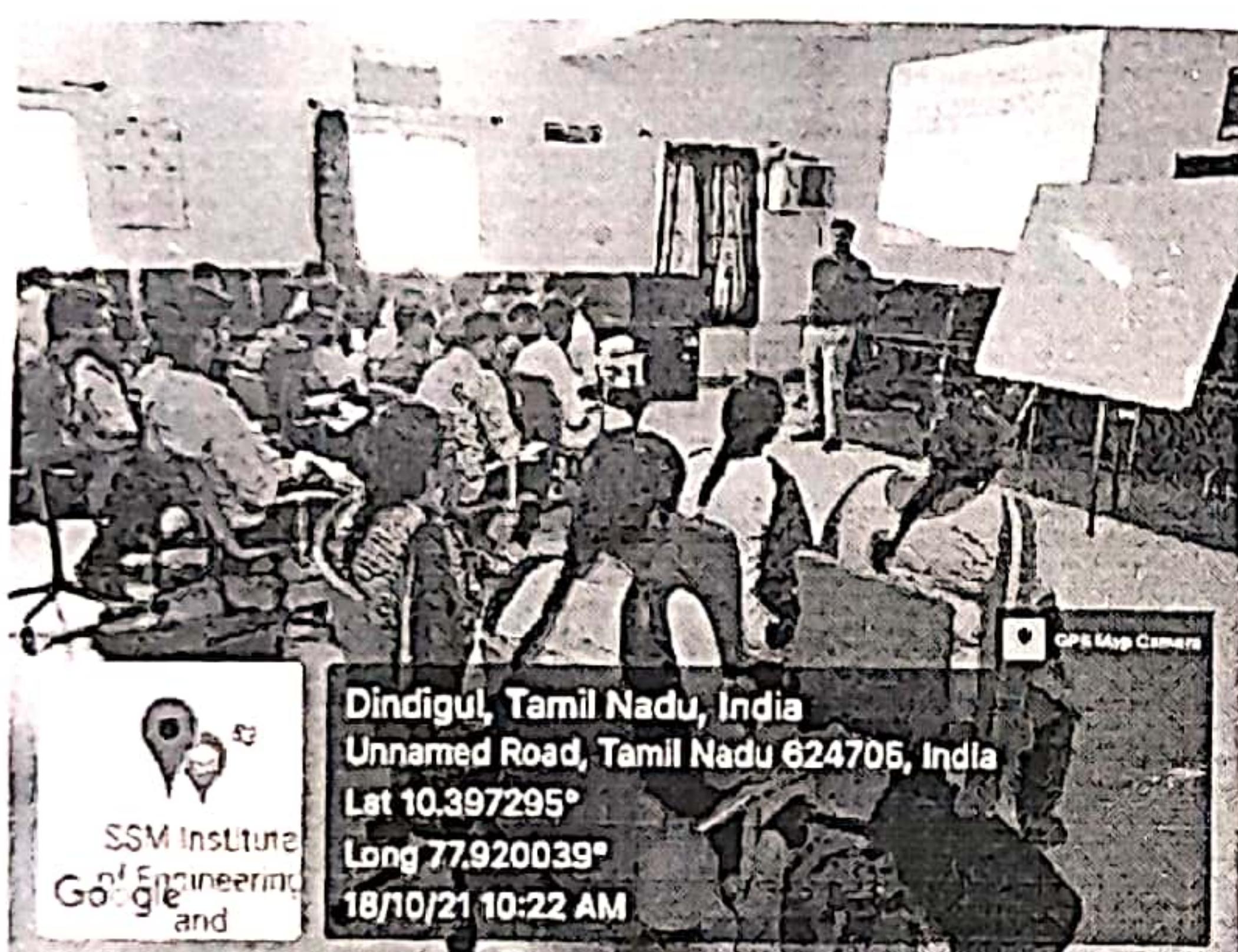
# SSM Institute of Engineering and Technology, Dindigul -02.

## 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

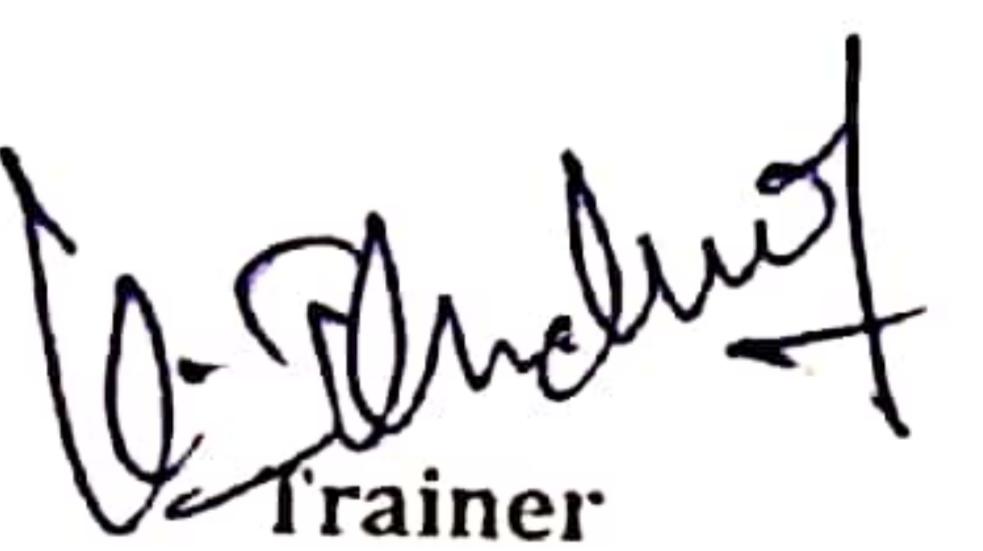
Kuttathupatti Village, Sindhalagundu (Po),

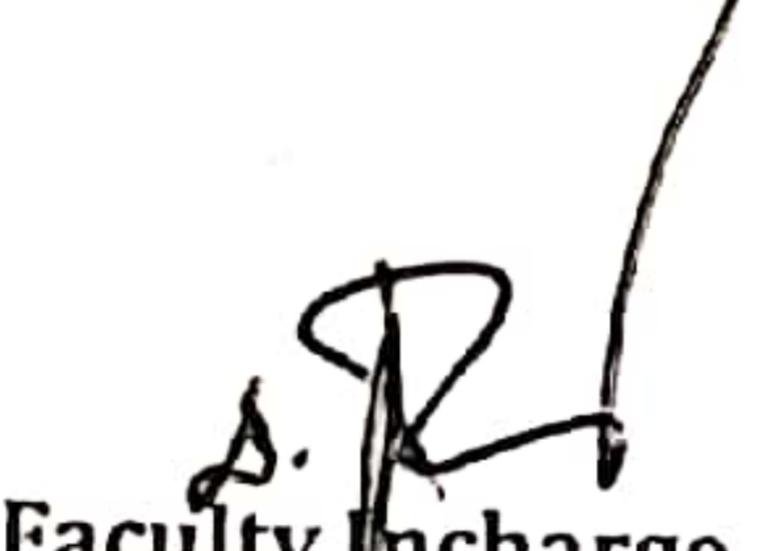
Shanmugam Road, Dindigul - 624 002.

**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

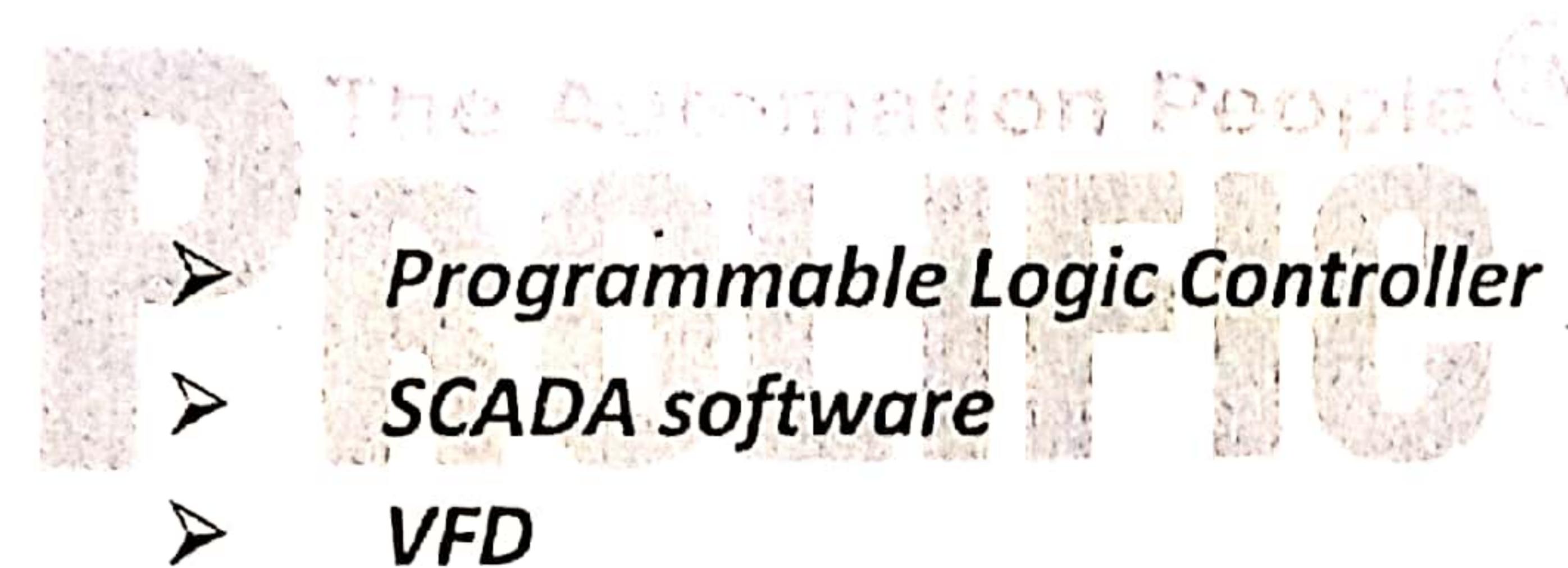
# CERTIFICATE

**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

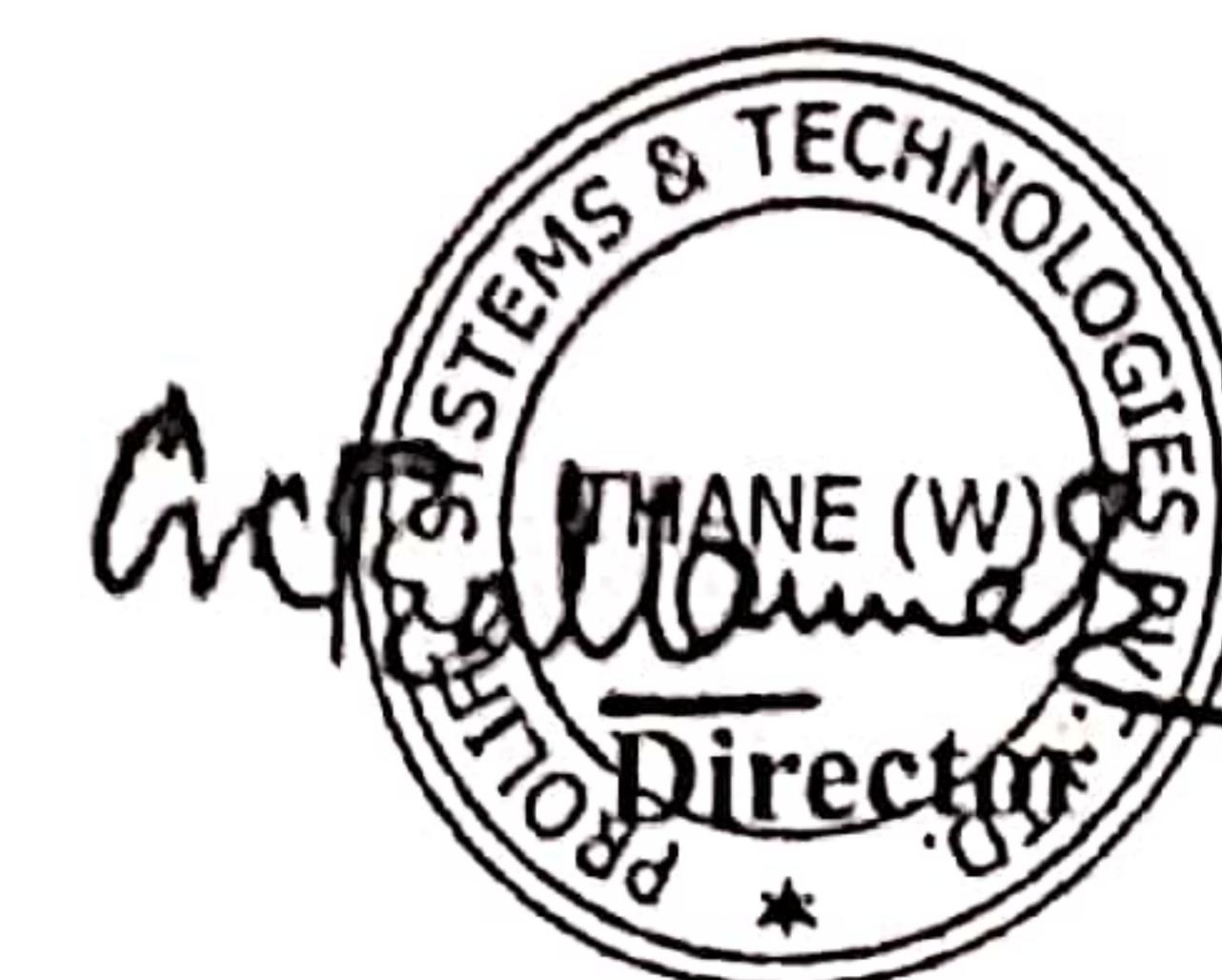
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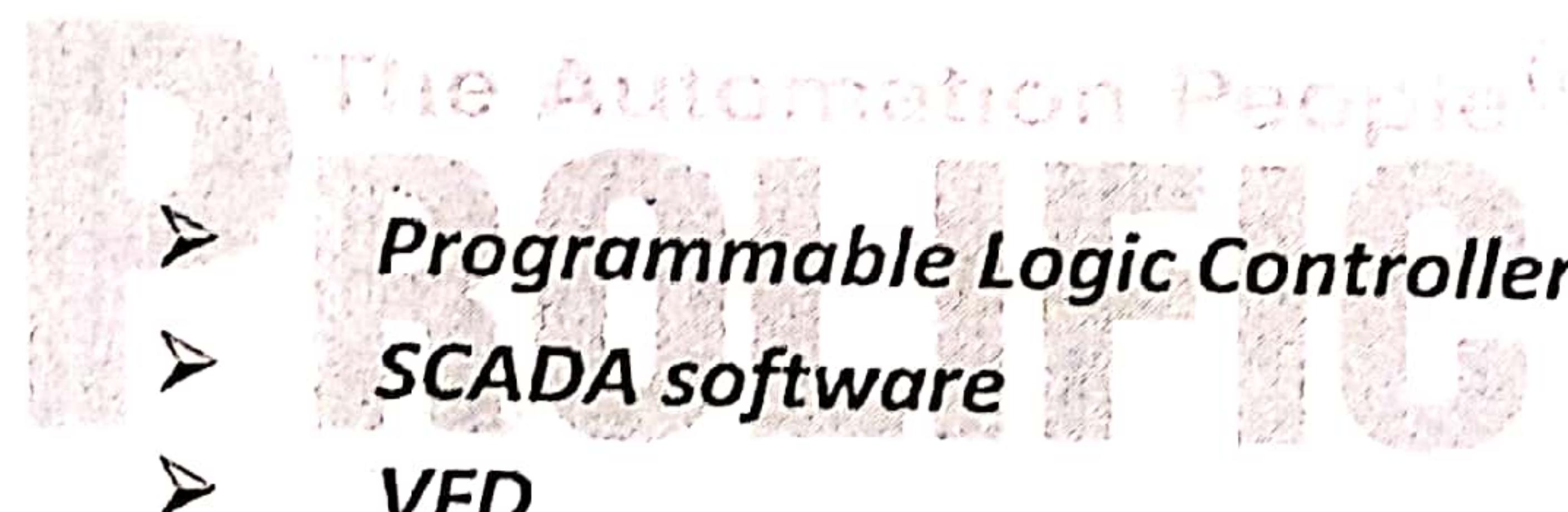
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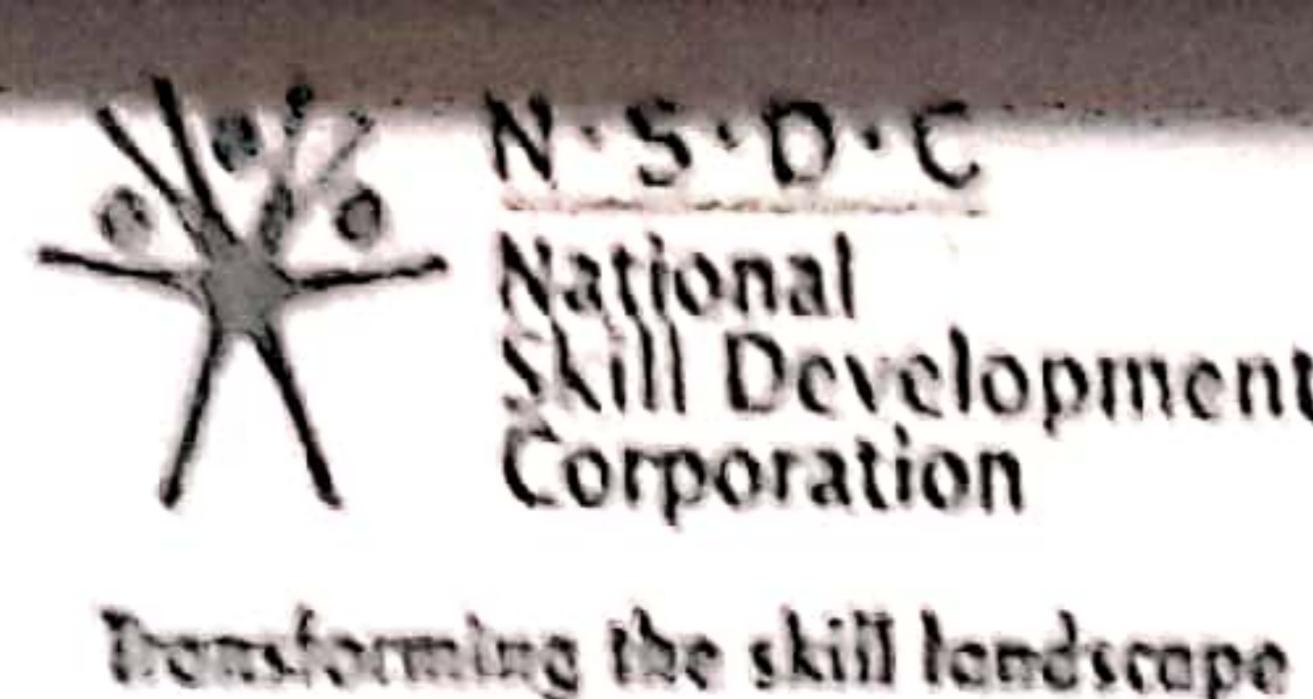
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- SCADA software
- VFD

Conducted for 5 days during the period 18.10.2021 to 23.10.2021 at

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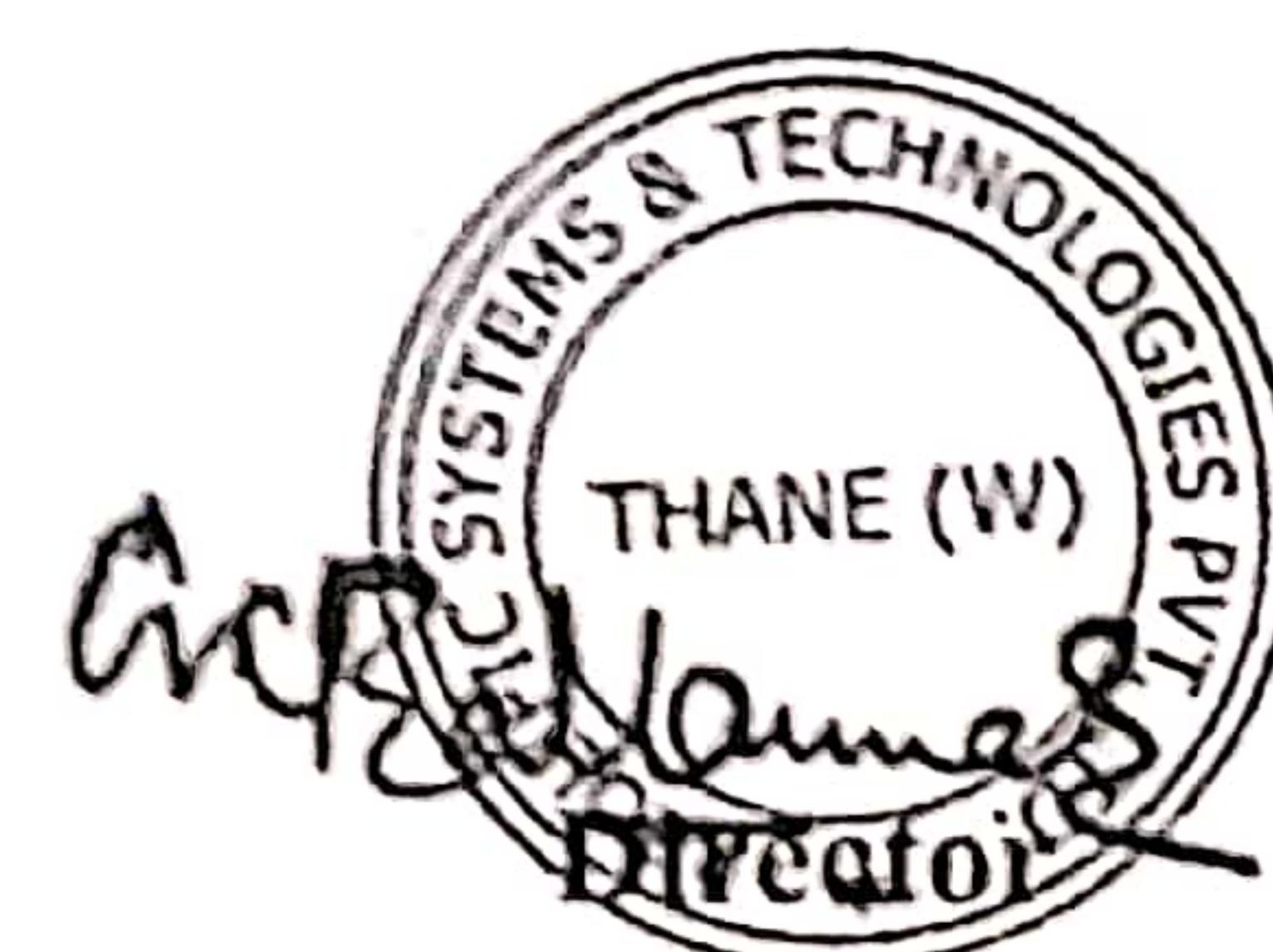
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# SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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



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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

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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.