

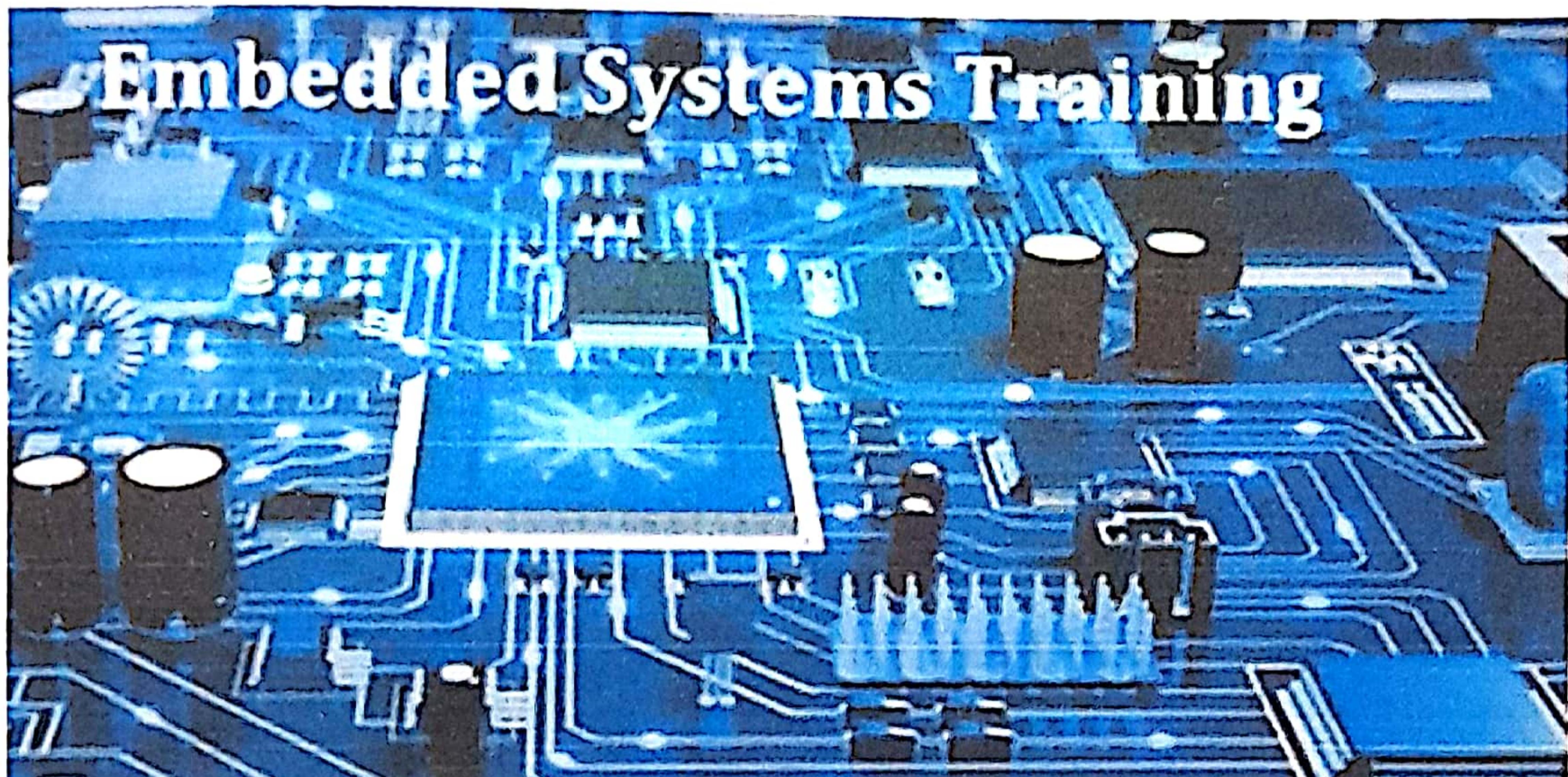


SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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)

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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.

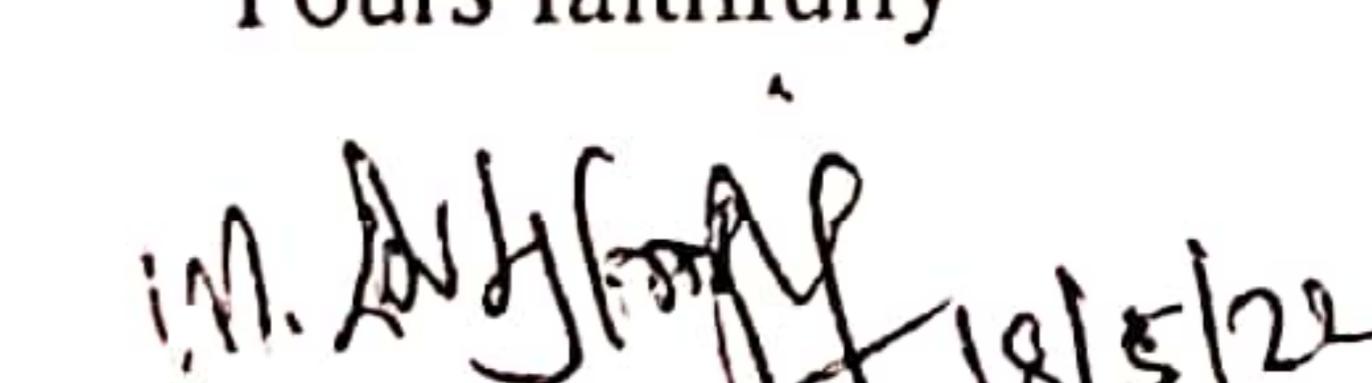
Respected Sir,

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



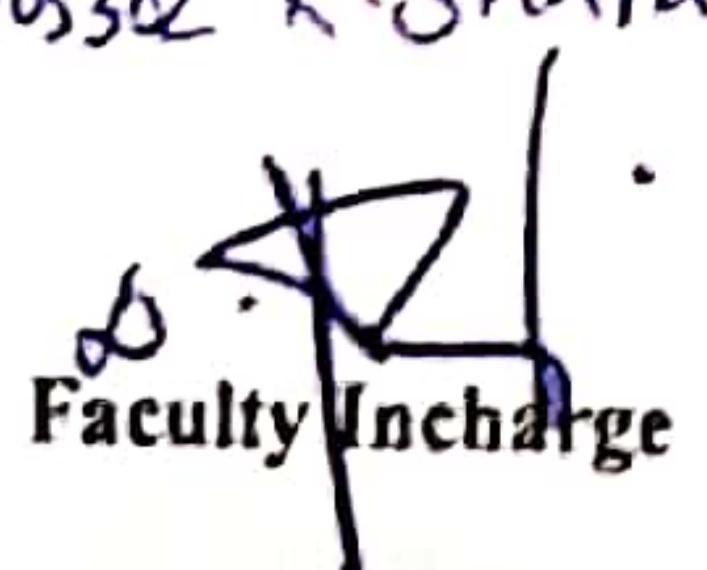
Faculty In-charge

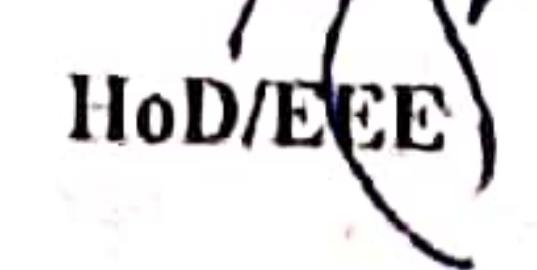


HoD/EEE

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

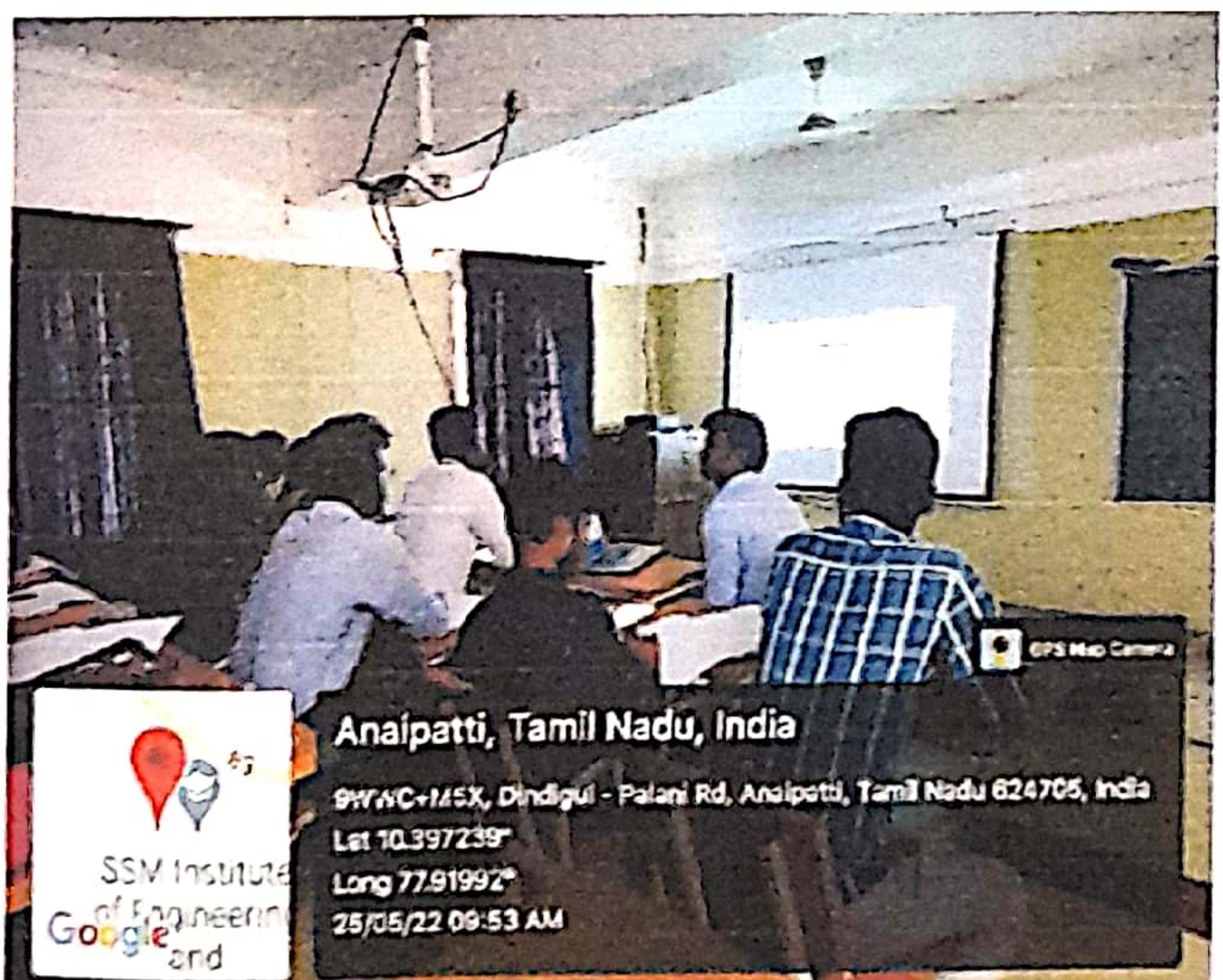
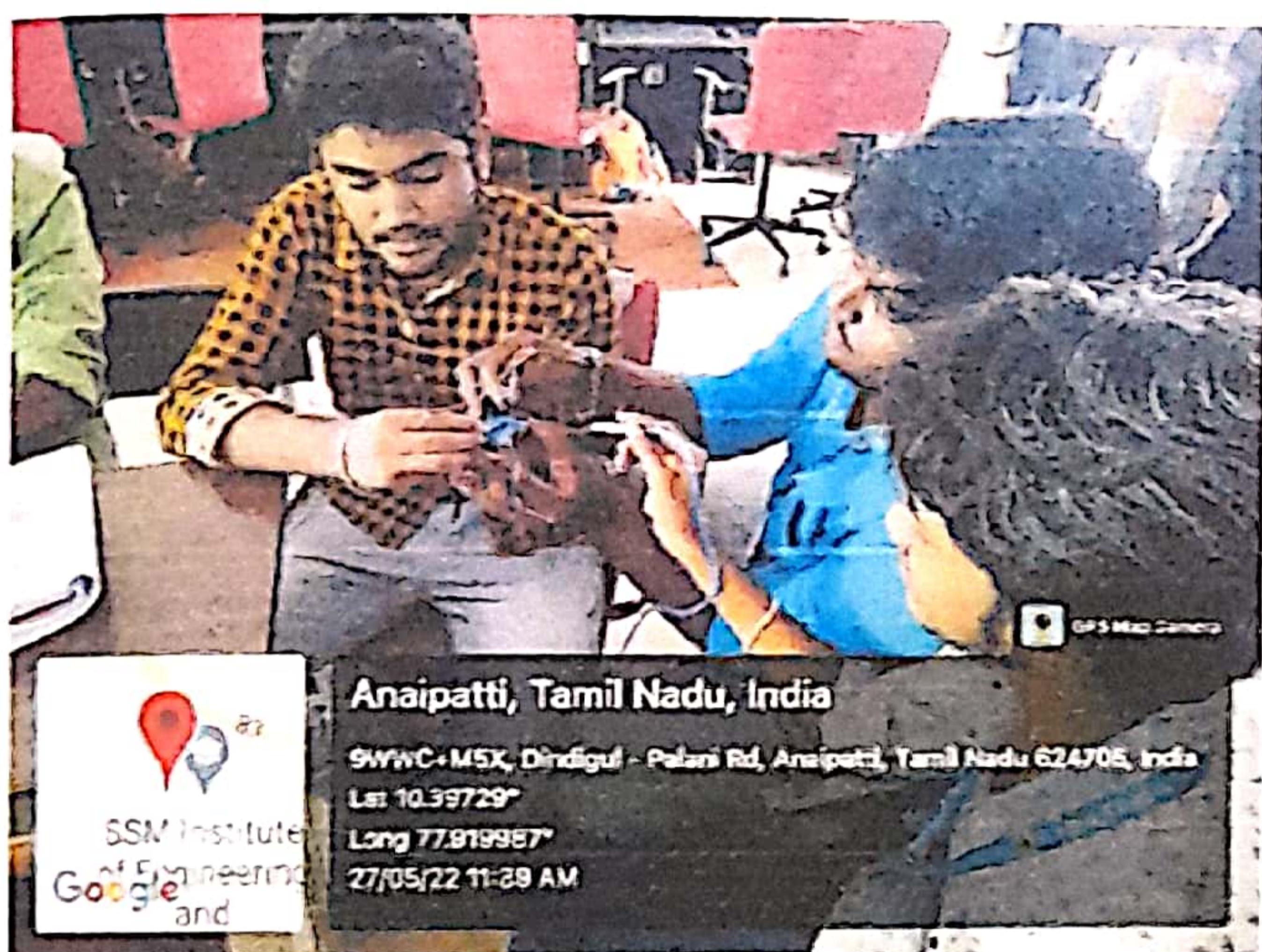

Principal

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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 23rd May 2022 to 28th 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.

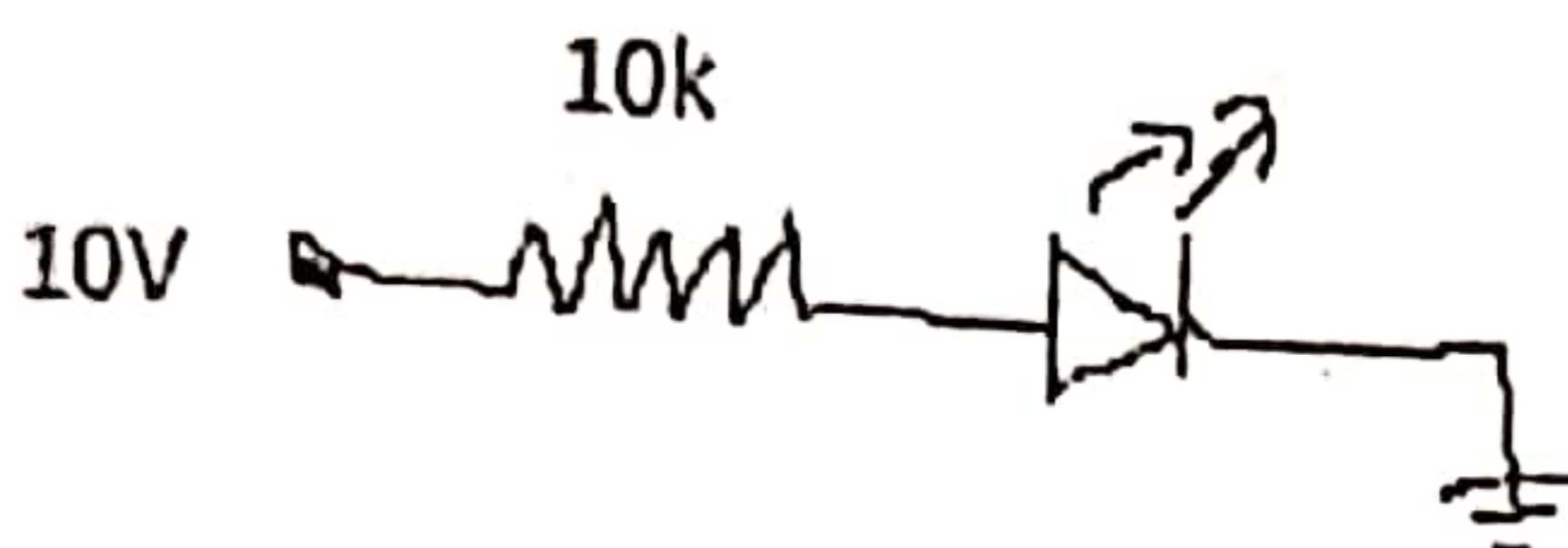


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Rdz

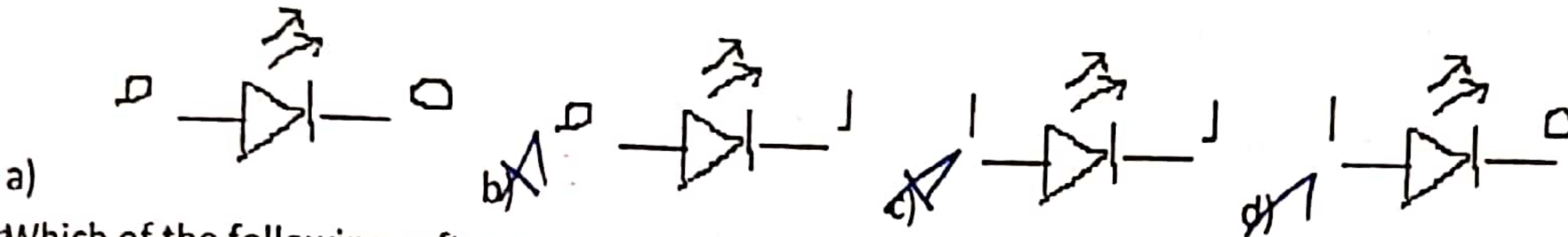
EMBEDDED SYSTEM

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 the 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 0th 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) ~~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
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

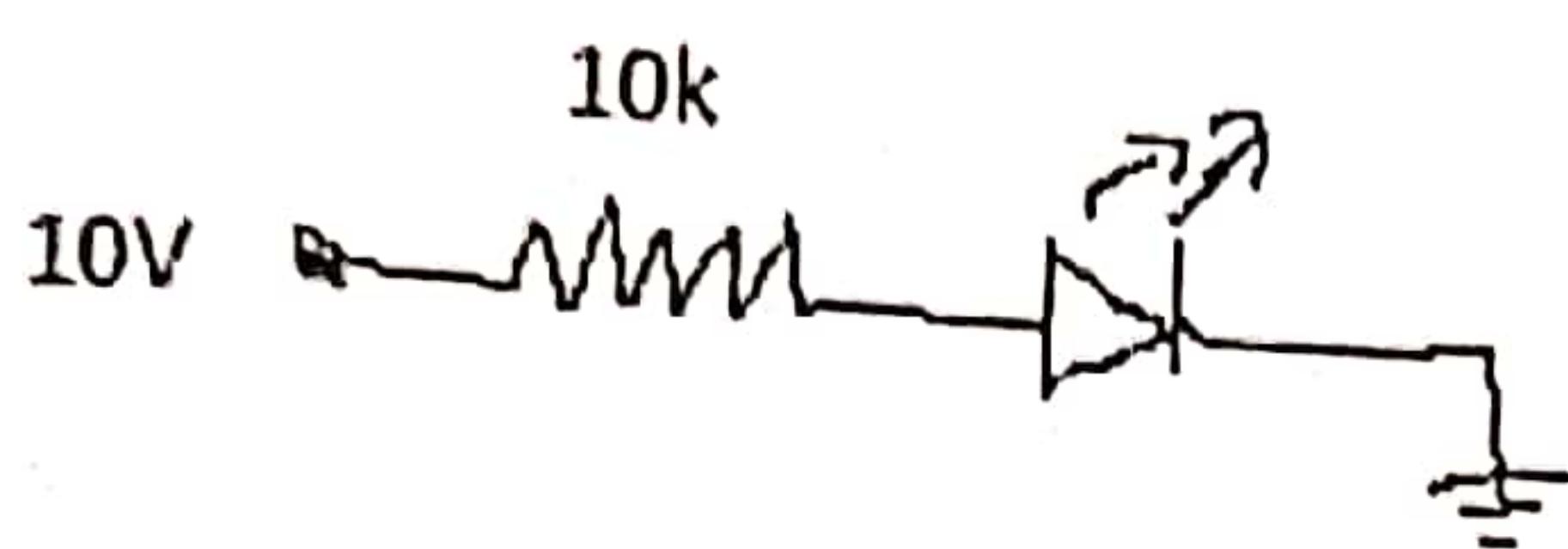
S. SADHAM HUSSAIN

EEE → 2 YEAR

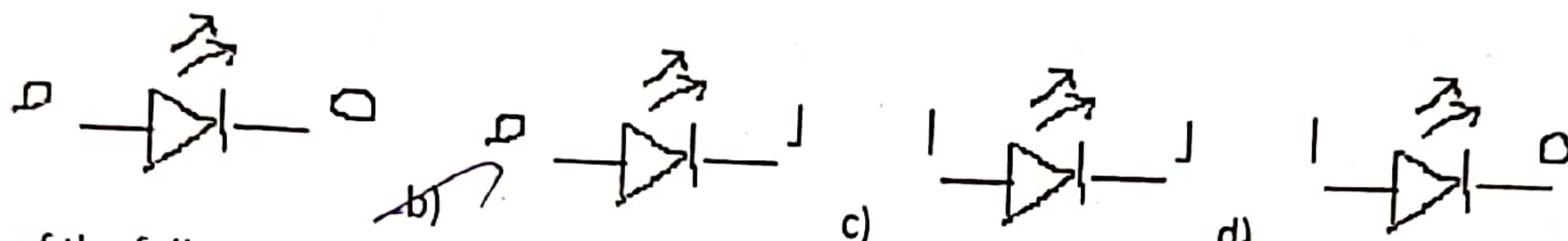
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 - c) 1 uA
 - d) 100mA



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✓ 12) TRISB=0 means

- a) RB as input
- 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) Picic.h
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- d) Cipic.h

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- d) 24

17) What is the Hex Code to display "8" in 7 segment display(Common cathode) assume dp as zero

- a) fe
- 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

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- a) Wi-Fi
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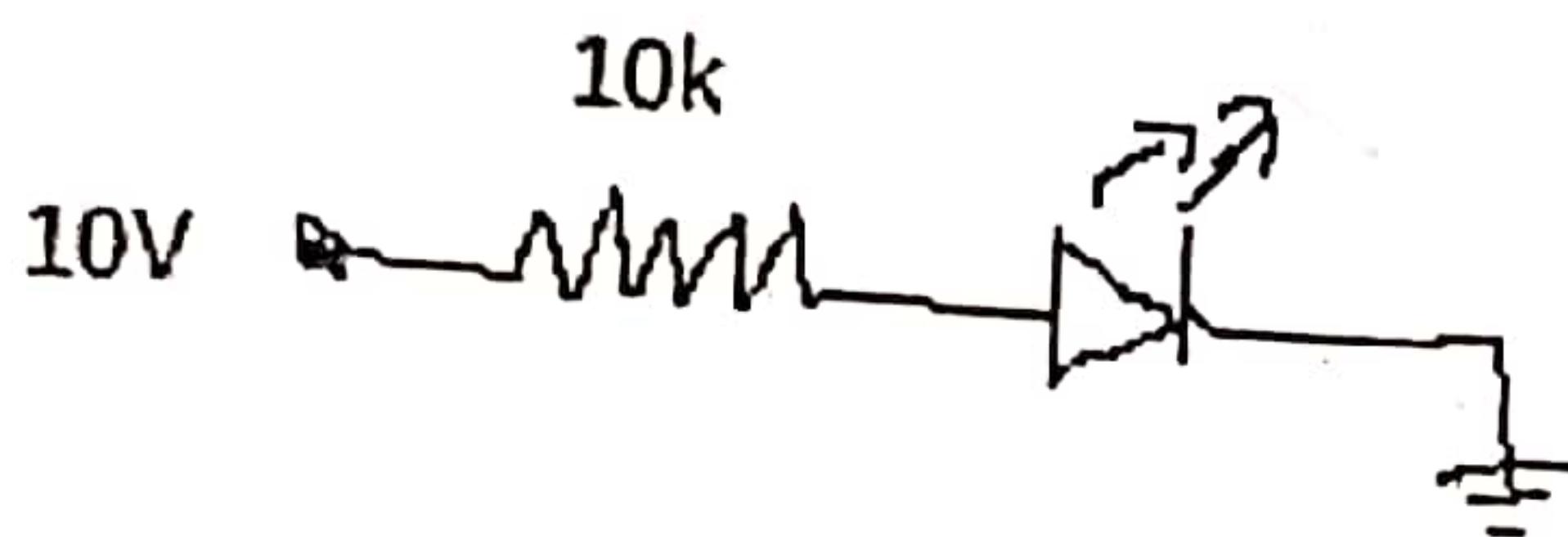
S. Mohamed Kasim



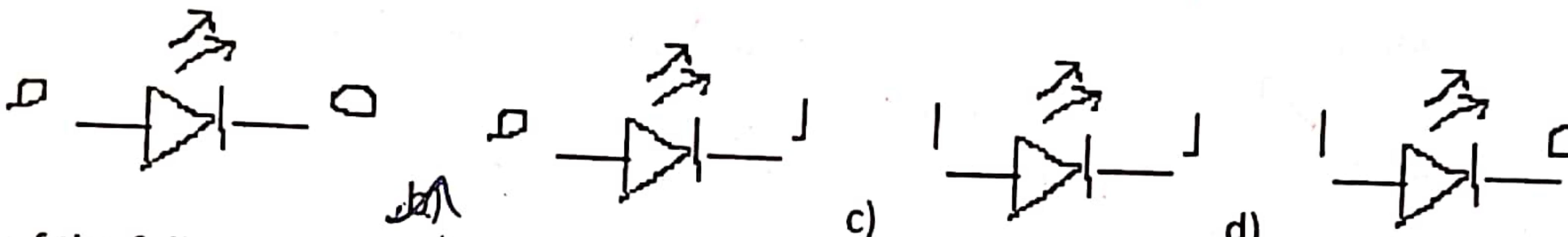
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- ✓ 8) a) 0,1,2....99 b) 0,1,2....100 c) 1,2,3...99 d) 1,2,3....100

✓ 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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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

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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

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Mr. R. Venkatesan
Director

CERTIFICATE

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V.TAMILSELVAN

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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: DIMDIODI

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

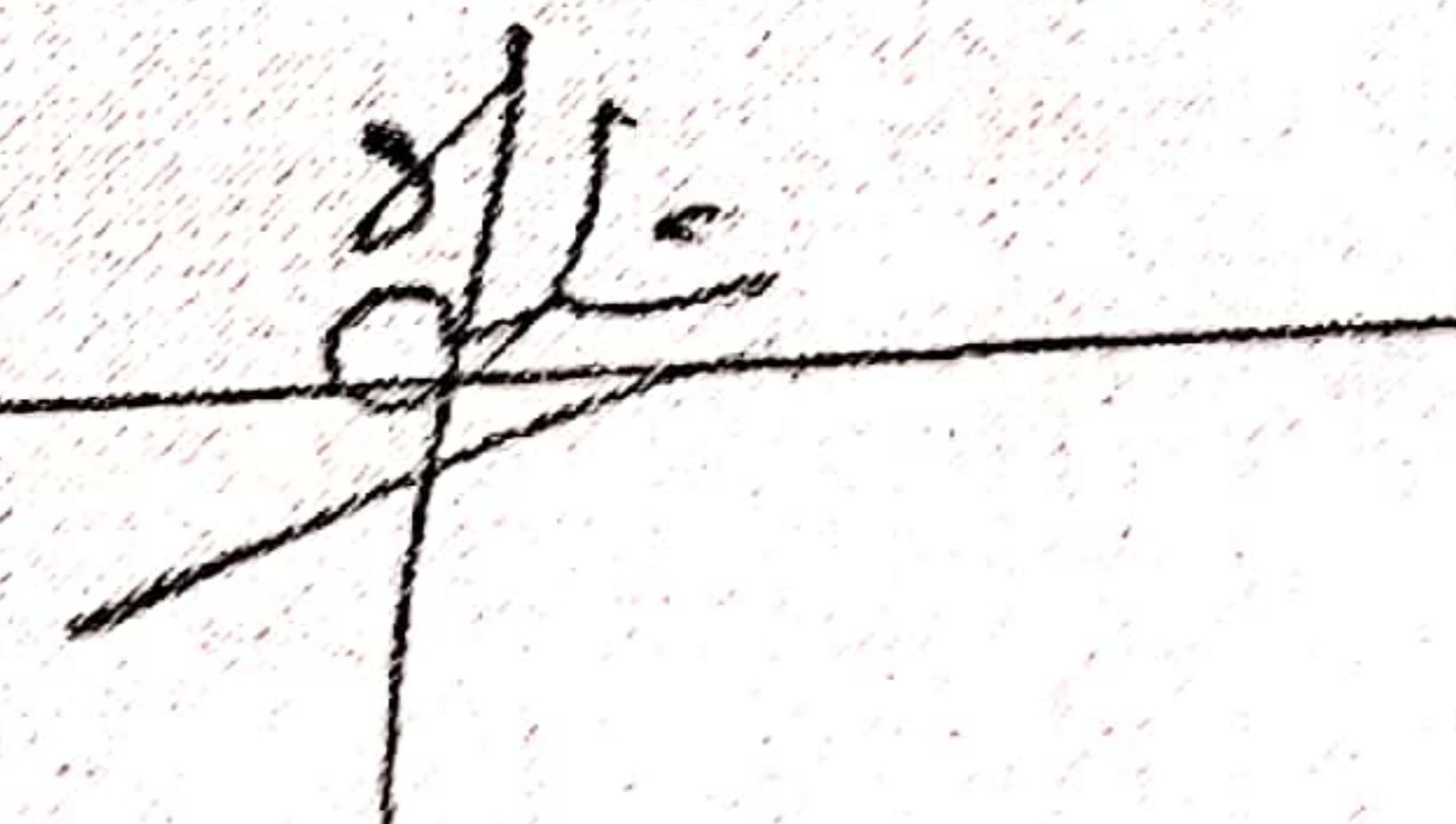
Contact Number: 9080848704

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