



# **SSM**

## **INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Dindigul–Palani Highway, Dindigul-624002.**



## **Technology Training Report**

**20-02-2023 to 27-02-2023**

**Department of Electronics and Communication Engineering**  
**2022-2023**

**Event Coordinators:** Mr.R.Senthil Kumar, AP/ECE & Mr.R.CAROL PRAVEEN, AP/ECE  
Mr.V.P.JayFantin, AP/ECE & Ms.R.Sangeetha, AP/ECE

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# CIRCULAR



## SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

Dindigul – Palani Highway, Dindigul-624 002.

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### CIRCULAR

17.02.2023

The Department of ECE has planned to conduct the Technology Teaching for Third year students on "Embedded IOT" scheduled to be conducted between 20.02.2023-25.02.2023. The main objectives of this training are to learn about basics of Microcontrollers and Arduino Leonardo Embedded IOT. Students are instructed to attend this six days (48 hours) training and get benefited

Name of the company: Tessolve Semiconductor Pvt. Ltd

#### Resource person details:

1. Mr Madhavapandian, Bangalore  
Technical Head  
Embedded System Design
2. M. Marimuthu, Bangalore  
Technical Consultant  
Internet of Things

Class in-charge

Mr.R.Carol Praveen, AP/ECE  
Mr.R.Senthil Kumar, AP/ECE

Staff in-charge

Mr.V.P.Jay Fantin AP/ECE  
Ms.R.Sangeetha, AP/ECE

HoD/ECE

Dr.S.Karthigai Lakshmi

## DEPARTMENT OF ELECTROINCS AND COMUNICATION ENGINEERING

### “Embedded IOT”

**Date :20-02-2023 -25.02.2023**

**Time: 09.00am to 04:00 pm**

**Venue : Seminar Hall - I**

#### Speaker



**Mr Madhavapandian**  
Technical Head,  
Tessolve Semiconductor Pvt. Ltd,  
Bengaluru.

**Co-Ordinators**  
**Mr.R.Carol Praven Ap/ECE**  
**Mr..R.Senthil kumar,AP/ECE**

**HoD/ECE**  
**Dr.S.Karthigai Lakshmi**

**Staff incharge**  
**Mr.V.P Jay FantinAp/ECE**  
**Ms.R.Sangeetha,AP/ECE**

**Principal**  
**Dr.D.Senthilkumaran**

**All are Cordially Invited**



# APPROVAL LETTER

From

17.02.2023

Dr.S.Karthigai Lakshmi  
Professor and Head  
Department of ECE  
SSM Institute of Engineering and Technology  
Dindigul-2

To

The principal  
SSM Institute of Engineering and Technology  
Dindigul-2

Respected Sir,

Sub: Requesting approval conducting **Technological Teaching** for III Year-ECE students-Reg.

The **Department of ECE** has planned to conduct technological teaching for III Year ECE students on "Embedded IOT" which is scheduled to be conducted on the month of February 2023. In this regard, I request your permission to conduct this training on the scheduled month. The quotation details, syllabus are attached with this letter. Kindly do the needful sir.

Name of the technological training	Name of the company	Total no. of students	Total No. of Hours	date	Amount	Coordinator/ Staff incharge
Embedded IOT	Tessolve Semiconductor Pvt. Ltd	86	48	20.02.2023 – 25.02.2023	Rs.1600 / students	Mr.R.Senthil Kumar, Ms.R.Sangeetha Mr.R.Carol Praveen Mr.V.P.Jay fantin

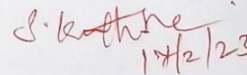
## Resource person details:

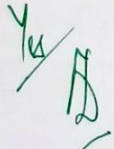
- 1.Mr Madhavapandian, Bangalore  
Technical Head  
Embedded System Design
2. M. Marimuthu, Bangalore  
Technical Consultant  
Internet of Things

Thanking you

  
Yours Faithfully

(Dr.S.Karthigai Lakshmi)

  
17/2/23



**SYLLABUS**  
**EMBEDDED IOT- 6 DAYS TRAINING PROGRAM**



	Embedded Application		, Processor Architecture, Applications
2	Introduction To Energia IDE	L	Energia IDE Introduction and Explore
3	Tools	L	C Compiler Installation, Privileges, Compilation Process
4	Embedded C	L	Embedded C Basics, Project Creation and Verification Of Compiler, Simulator Functionalities
5	I/O Port Output Interference	L/H	I/O Port Basics- Output, Application and Exercise
6	Serial Monitor Interference	L/H	Serial Monitor- Output, Application and Exercise
7	ADC Interfacing	L	ADC And Comparator Basics, Requirement, Configuration, Exercise
8	Sensor Interface	L/H	Sensor Interface With Task Execution
9	Peripheral- I/O Port Led Interface	L/H	I/O Port Basics, Configuration- Output, Application and Exercise
10	Peripheral- I/O Port, Keypad Interface	L/H	Configuration- Output, Application and Exercise
11	Peripheral- I/O Port Lcd	L/H	Basics Of LCD Interface, 4bit and 8bit Modes Of Operation, Exercise- 8bit Mode
12	Peripheral- Timer	L/H	Interrupts, Basics Of Timer, Internals and Hardware Configurations Of Timer, Modes, Exercise
13	Peripheral- ADC, Comparator	L	ADC & Comparator Basics, Requirement, Configurations, Exercise
14	Peripheral- UART	L/H	Basics Of Serial Communication, Configuration, Transmission and Reception
15	Peripheral- Spi, I2c	L	Basics Of Spi and I2c Configuration, Rtc Interface, Exercise
16	RTOS	L	Real Time Task on Embedded System



17	IOTIntroduction	L	Overview Of Iot And Its Road map, Opportunities
18	IOT-Thing speak Login	L/H	Creation Of Thing speak Page And Exercise On Web Browser With Different Web pages To Control The Hardware
19	IOT-Upload Thing speak	L/H	Getting Connected With Thing speak Cloud Platform And Sending Sensor Information
20	IOT-Data Acquisition	L/H	Sensor Data Acquisition Using Thing speak Server
21	Project	H	Real Time Task On Iot Platform And Mini Project
22	Discussion	L	Discussion About Placement Interview Question

# LIST OF STUDENTS

S.No.	REGISTER NO.	NAME OF THE STUDENTS	MOBILE NUMBER	MAIL-ID
1	922120106001	AARTHY KP	9025635365	<a href="mailto:aarthyp67@gmail.com">aarthyp67@gmail.com</a>
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64	922120106067	SUBASHREE. M	6385235652	<a href="mailto:subanime2020@gmail.com">subanime2020@gmail.com</a>
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72	922120106076	VARSHINIS	8838999633	<a href="mailto:Varshini20112002@gmail.com">Varshini20112002@gmail.com</a>
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# STUDENT ATTENDANCE

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY DINDIGUL DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING THIRD YEAR ECE											
SEMESTER - VI				DATE: 26/02/2023 TO 25/02/2023							
S.NO	REGISTER NUMBER	NAME OF THE STUDENT	20/02/2023		22/02/2023		23/02/2023		24/02/2023		25/02/2023
			FN	AN	FN	AN	FN	AN	FN	AN	
1	922120106002	ABULASHIM	MA	MA	MA	MA	MA	MA	MA	MA	MA
2	922120106005	AKASHIE	CA	CA	CA	CA	CA	CA	CA	CA	CA
3	922120106006	ARAVINDKUMAR D	DA	DA	DA	DA	DA	DA	DA	DA	DA
4	922120106007	ARULMURUGAN S	SA	SA	SA	SA	SA	SA	SA	SA	SA
5	922120106008	BALAJI S	SL	SL	SL	SL	SL	SL	SL	SL	SL
6	922120106009	BALAJIPRASANATH G	CA	CA	CA	CA	CA	CA	CA	CA	CA
7	922120106011	CHANDRU R	CA	CA	CA	CA	CA	CA	CA	CA	CA
8	922120106015	HAARIHARAN K	CA	CA	CA	CA	CA	CA	CA	CA	CA
9	922120106017	HAARI PRASATH S	CA	CA	CA	CA	CA	CA	CA	CA	CA
10	922120106022	JAYAHAR S	CA	CA	CA	CA	CA	CA	CA	CA	CA
11	922120106023	JEENA V	CA	CA	CA	CA	CA	CA	CA	CA	CA
12	922120106026	JOEL GODFREY T	CA	CA	CA	CA	CA	CA	CA	CA	CA
13	922120106028	KARAN M	CA	CA	CA	CA	CA	CA	CA	CA	CA
14	922120106032	KESAVAN J	CA	CA	CA	CA	CA	CA	CA	CA	CA
15	922120106033	LATHIEF MAIDEEN A	CA	CA	CA	CA	CA	CA	CA	CA	CA
16	922120106037	MATHIAN K	CA	CA	CA	CA	CA	CA	CA	CA	CA
17	922120106038	MOHADEEN ABDEL KADHAR	CA	CA	CA	CA	CA	CA	CA	CA	CA
18	922120106039	MOHAMMED VIRGOOK J	CA	CA	CA	CA	CA	CA	CA	CA	CA
19	922120106040	MOHAMMED IRFAN A	CA	CA	CA	CA	CA	CA	CA	CA	CA
20	922120106301	AGIL MARIV ALAN J	CA	CA	CA	CA	CA	CA	CA	CA	CA
21	922120106305	JOYALANILLOO SHIRAJ	CA	CA	CA	CA	CA	CA	CA	CA	CA
22	922120106306	NITHISH M K	CA	CA	CA	CA	CA	CA	CA	CA	CA
23	922120106042	NANTHISWARAN M	CA	CA	CA	CA	CA	CA	CA	CA	CA
24	922120106044	NITHIES KUMAR E	CA	CA	CA	CA	CA	CA	CA	CA	CA
25	922120106053	SAHIL AKTHAR Z	CA	CA	CA	CA	CA	CA	CA	CA	CA
26	922120106056	SARAN P	CA	CA	CA	CA	CA	CA	CA	CA	CA
27	922120106057	SELVAKUMAR S	CA	CA	CA	CA	CA	CA	CA	CA	CA
28	922120106058	SETHU KISHOR R	CA	CA	CA	CA	CA	CA	CA	CA	CA



Facility - 5b - change

[illegible]

SRI SASTRI ENGINEERING AND TECHNOLOGY JINDRUL  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
THIRD YEAR ECE

SEMESTER-VI			DATE: 20.02.2023 TO 25.02.2023											
S.NO	REGISTR NUMBER	NAME OF THE STUDENT	20.02.2023		21.02.2023		22.02.2023		23.02.2023		24.02.2023		25.02.2023	
			IN	AN	IN	AN	IN	AN	IN	AN	IN	AN	IN	AN
1	922120106001	ARATHY K P	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy	Arathy
2	922120106003	ANSHWARYA K	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu
3	922120106004	ANWARA B	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu	Aishu
4	922120106010	BIJUVANESWARA A	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan	Bhuvan
5	922120106012	DEVAVARSHA M	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
6	922120106013	GEADYS NANCY J	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy	Jancy
7	922120106014	GOKUL AVANI K	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul
8	922120106016	HARINI J	Harini	Harini	Harini	Harini	Harini	Harini	Harini	Harini	Harini	Harini	Harini	Harini
9	922120106018	HARSHINI A	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu
10	922120106019	HEMA M	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema	Hema
11	922120106020	HIBA KOSHAN A	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu
12	922120106021	JANANI S	Janani	Janani	Janani	Janani	Janani	Janani	Janani	Janani	Janani	Janani	Janani	Janani
13	922120106024	JEEVITHA S	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha
14	922120106027	KANIMOZH P	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh	Kanimozh
15	922120106030	KARUNIKAP	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika	Karunika
16	922120106031	KAVYA SHREE R K	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya
17	922120106034	LAVANYA R	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya
18	922120106035	MADHUBALA M	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala	Madhubala
19	922120106036	MANISHA B	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha	Manisha
20	922120106041	NAGADHARSHINI G	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini	Nagadharshini
21	922120106043	NIRANJANA M	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana	Niranjana
22	922120106045	PANDINA DEVI B	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina	Pandina
23	922120106046	PAVITHRA R	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra	Pavithra





# EVENTREPORT

## COMPANYDETAILS:

### **Tessolve Semiconductor Pvt. Ltd.**

SMD Tower – 3rd Floor, 2252, Trichy

Road,Singanallur,Coimbatore–

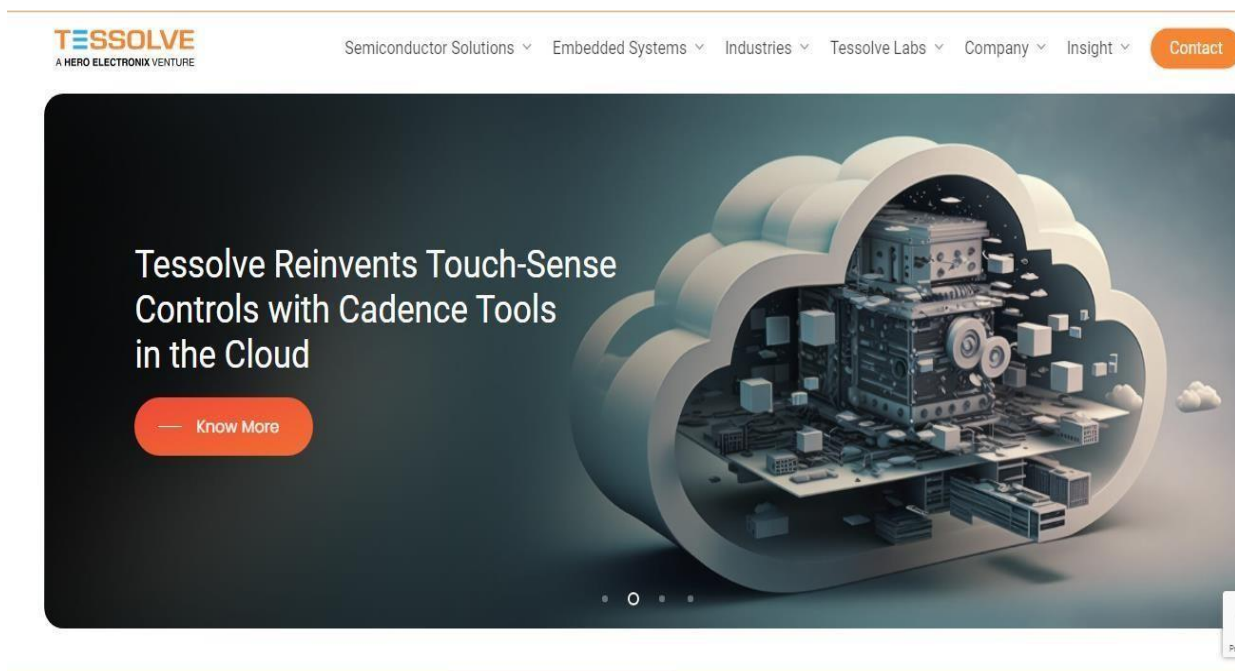
641005,Tamilnadu,India.Tel:+914222221188,+9142

22221199

Email:[sales@tessolve.com](mailto:sales@tessolve.com)

## **Being Tessolve: End-to-end silicon & system spartner**

Technological innovation has accelerated at an unprecedented pace in recent years, and so have the disruptions in the sector of Silicon engineering – complex IC development, increasing failures, and inadequate facilities for design, development, and testing. At Tessolve, we address these disruptions by partnering with OEMs and semiconductor companies for end-to-end innovation and productization of silicon and system solutions.



**Figure:1.Company Home Page**



# OBJECTIVE OF TECHNOLOGICAL TEACHING

Many of today's high-demand jobs were created in the last decade, according to the International Society for Technology in Education (ISTE). As advances in technology drive globalization and digital transformation, teachers can help students acquire the necessary skills to succeed in the careers of the future.

Electronics and Communications Engineering (ECE) involves researching, designing, developing, and testing of electronic equipment used in various systems. Electronics and Communications engineers also conceptualize and oversee the manufacturing of communications and broadcast systems. This stream of engineering deals with analog transmission, basic electronics, microprocessors, solid-state devices, digital and analog communication, analog integrated circuits, microwave engineering, satellite communication, antennae, and wave progression. It also deals with the manufacturing of electronic devices, circuits, and communication equipment.

The future of technology advancements is likely to depend on the developments in the electronics and communication field. Electronics and communication are the two primary pillars of our society these days. In the coming years, the trend will continue, and ECE will eventually emerge as one of the most prominent fields of engineering studies with substantial demand for ECE engineers all over the world.

## Objective:

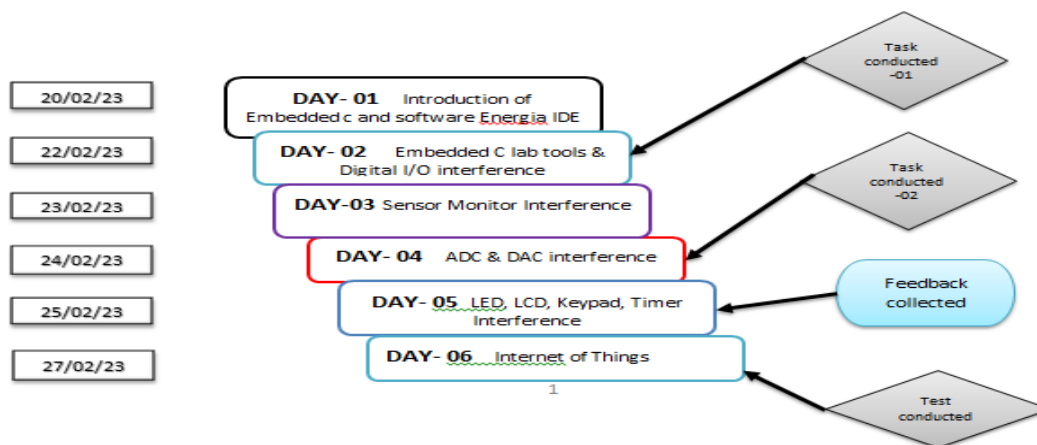
1. ECE Students are instructed to undergo at least one latest technology training in every semester that should be a requirement of core industry.
2. After completing this training, ECE students are able to do the Main project or Mini project in every semester with maximum of three members in a batch for Main project and one member for Mini project.
3. Project report has to be generated and submitted in department and college Library.
4. ECE students are instructed to convert their project into viable products for societal needs.

# INTRODUCTIONABOUTTHETRAINING

The explosive growth of the “Internet of Things” is changing our world and the rapid drop in price for typical IoT components is allowing people to innovate new designs and products at home. Electronics industry continues to make vast strides in providing functionally rich inexpensive devices for consumers and various industries including agriculture. Smart mobile robots—both personal and industrial—are proliferating fueled by efficient manufacturing combined with high energy battery technology. All these devices contain many sensors driven by embedded controllers and computing processors that are termed as microcontrollers. These microcontrollers typically offer less performance than the latest processors used in laptop and desktop personal computers, but they are sufficiently powerful and frugal in cost and energy use.

The programming language in the embedded systems course is C due to its efficiency in memory allocation, runtime, and its ability to directly manipulate hardware components, although higher level functional languages such as Embedded C are becoming popular for microcontrollers.

## Organization of the Training:



## TasksperformedbyStudents

1. Traffic Light
2. Positive&Negative Logic
3. Pushbutton Ledglowinkit
4. SwitchPositiveLogic-LedNegativeLogic
5. SwitchNegativeLogic- LedPositiveLogic
6. 2Ledglowinkit
7. Trafficlightwithextra8Led
8. BrightnessofLedcontrolusingkit
9. Potentiometer10.Th
- reeSensor11.Keypadw
- ith4 LED
- 12.Keypadwith7Segment1
- 3.Keypadwith LCD

AsperordergivenbyourrespectedPrincipalDr.D.SenthilKumaran,TheTechnological Teaching for all the students tobe implemented immediately thatshouldbelifechanginglearningprocessintheiracademic.Toimplementthistraining, Department of Electronics and Communication Engineering is immediatelyplanned and got approval from company as well asmanagement of SSMIET. Thedate was fixed between Feb 20, 2023 to Feb 27, 2023 in offline mode. Students ofECE department were instructed to attend this Technological Training on “EmbeddedIoT” without fail, and also insist them to ready for project expo at the end of thetraining.

Thisessionwasstartedwithintroductionclassatseminarhall-

01,MrMadhavapandian,Technical Head advised our ECE students to concentrate on thecore subjects and pointed out the importance of core jobs. The technical session wasstarted after the introduction class; session was handled by Mr.Madhavapandian and Mr.M.Marimuthu in various laboratory.

Students of ECE were completely involved in the training and asked lot of questionsduring the Hands on training. Trainers gave plenty of project ideas to students

andencouragedthemtodominiprojectimmediatelyaftercompletingthistrainingsession.T hreetests wereconducteddduringthetraining.

## SESSIONPHOTOS

Introduction Speech delivered by Mr.Madhavapandian,Technical Head,Tessolve Semiconductor Pvt. Ltd. about the importance of embedded systems andtheir applications. He also added that the job opportunities in the core field arebooming and required more man power in the core area. He advised students to concentrate more on core subjects like VLSI,DSP, Signals and Systems, Microprocessor and Micro controller etc...



**Figure:1.**Introduction Speech by MrMadhavapandian, Technical Head, Tessolve Semiconductor Pvt .Ltd.

Technical session was handled by Mr.M.Marimuthu,Technical Consultant in Networks Laboratory and Mr.Madhavapandian,Technical Head in DSP Laboratory. Both of them started with the basics of Microprocessor and Microcontroller and then slowly moved to the Simulation software (Proteus Design Suite).From second day on wards, students were able to use the Proteus Simulation Suite and start writing the Embedded-C coding.



**Figure:2.** Technical session given by Mr.M.Marimuthu, Technical Consultant, Tessolve Semiconductor Pvt.Ltd.



**Figure:3.** Technical session given by Mr.Madhavapandian, Technical Head, Tessolve Semi conductor Pvt.Ltd.

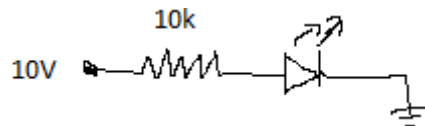
# ASSESSMENT QUESTIONS

Name/

Reg.No:

Choose the correct option:

- 1) In Digital, Ground is equal to.....  
a) 0                      b) 1                      c) Either 0 or 1                      d) Z
- 2) In what condition the Light Emitting Diode emits light  
a) Forward biased                      b) Reverse bias                      c) Both a and b                      d) Naturally emits
- 3) How many ports are there in PIC16F877A  
a) 4                      b) 5                      c) 6                      d) 8
- 4) What is the Hex Code for 10111001  
a) B9                      b) BA                      c) AB                      d) C9
- 5) What is the Hex Code to display "0" in 7-segment display (Common anode) assumed pass zero  
a) 02                      b) ad                      c) da                      d) 24
- 6) What is the Hex Code to display "0" in 7-segment display (Common cathode) assumed pass zero  
a) Fe                      b) 00                      c) ff                      d) 9a
- 7) In the circuit find current through LED with cut off voltage of 1V  
a) 0.9A                      b) 0.9mA                      c) 0.9uA                      d)



900mA

- 8) 16\*2 LCD display has how many pins  
a) 12                      b) 8                      c) 32                      d) 16
- 9) PIC16F877A is a ..... bit microcontroller  
a) 8                      b) 16                      c) 12                      d) 32
- 10) Sensor can detect which of the following  
a) Temperature                      b) Moisture                      c) Gas                      d) All the above
- 11) What is the programming environment used to develop program for PIC microcontrollers  
a) Keil                      b) Matlab                      c) Arduino                      d) MPLAB
- 12) Which one of the following desires the time period of the controller  
a) Port                      b) Oscillator                      c) Interrupt                      d) Power supply
- 13) If 1MHz frequency signal is set as input to a microcontroller, what is the time period of the controller  
a) 100msec                      b) 1msec                      c) 1usec                      d) 1000sec
- 14) Which one sets the zero spin of port B as output in PIC16F877A  
a) TRISB=0                      b) TRISB=1                      c) TRISB=0                      d) TRISB=0xff
- 15) USART in PIC16F877A is used for  
a) Timers                      b) Counters                      c) Interrupt                      d) Serial Communication
- 16) Which of the following is used as external oscillator connection pins  
a) Osc1/osc2                      b) sdi/sda                      c) psp0/psp1                      d) ccp0/ccp1
- 17) "Int" data type in C programming has how many bytes

- a) 1                      b)2                      c)3                      d)8

18) `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

19) `PORTB=0x22`, for this comment how many LED will emit light when all port pins are connected with LED each (controller is taken as source point)

- a) 2                      b)4                      c)6                      d)1

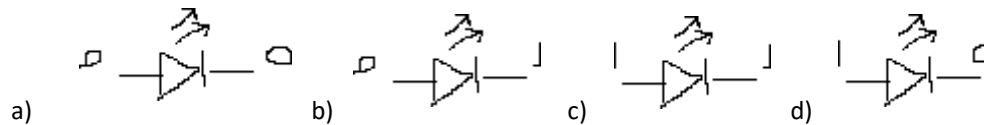
20) What is Baudrate

- a) Bits/second    b) bytes/second    c) word/second    d) double word/second

21) What is the compiler used for PIC microcontroller

- a) HightechC    b) XC8C                      c) XC16C                      d) All the above

22) Which LED will emit the light



23) Which of the following software tool suite is primarily used by Electronic Design Automation Engineers

- a) SCADA                      b) Proteus design suite                      c) ProE                      d) AutoCAD

24) Which of the following is NOT used for communication purpose

- a) SPI                      b) USB                      c) GSM                      d) MQ2

25) How many digital pins are there in Arduino Uno board

- a) 10                      b) 12                      c) 14                      d) 16

26) If you want to make 1 second delay in Arduino Uno, which one is best suitable

- a) Delay(1)    b) delay(10)    c) delay(100)    d) delay(1000)

27) IOT stands

- a) Internet of Things    b) Interest of Tax    c) Interrupt of Timer                      d) Invest of Telecommunication

28) Which of the following app is used in IOT

- a) Telegram    b) Spotify                      c) Snapdeal                      d) Blynk

29) Which of the following SOC is used as Wi-Fi module for IOT

- a) ESP8266    b) Arduino                      c) Raspberry Pi                      d) All the above

30) How many analog input pins are there in Arduino Uno board

- a) 0                      b) 4                      c) 6                      d) 8



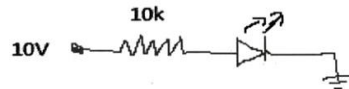
## ASSESSMENT QUESTIONS

Name/ S. Sowmiya  
Reg.No: 922120106063

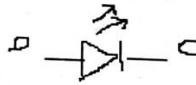
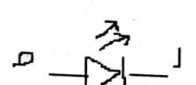


18/30  
Ref.

Choose the correct option:

- 1) In Digital, Ground is equal to .....  
a) 0 ✓      b) 1      c) Either 0 or 1      d) Z
- 2) In What condition the Light Emitting Diode Emits light  
a) Forward biased ✓      b) Reverse bias      c) Both a and b      d) Naturally emits
- 3) How many Ports are there in PIC16F877A  
a) 4      b) 5 ✓      c) 6      d) 8
- 4) What is the Hex Code for 10111001  
a) B9 ✓      b) BA      c) AB      d) C9
- 5) What is the Hex Code to display "0" in 7 segment display(Common anode) assume dp as zero  
a) 02      b) ad ✓      c) da      d) 24
- 6) What is the Hex Code to display "0" in 7 segment display(Common cathode) assume dp as zero  
a) Fe      b) 00      c) ff ✓      d) 9a
- 7) In the circuit find current through LED with cut off voltage of 1 V  
a) 0.9A      b) 0.9mA ✓      c) 0.9 uA      d)



- 8) 16 \* 2 LCD display has how many pins  
a) 12      b) 8      c) 32      d) 16 ✓
- 9) PIC16F877A is a .....bit microcontroller  
a) 8 ✓      b) 16      c) 12      d) 32
- 10) Sensor can detect which of the following  
a) Temperature      b) Moisture      c) Gas      d) All the above ✓
- 11) What is the programming environment is used develop program for PIC microcontrollers  
a) Keil      b) Matlab ✓      c) Arduino      d) MP LAB
- 12) Which one of the following desires the time period of the controller  
a) Port      b) Oscillator ✓      c) Interrupt      d) Power supply
- 13) If 1 MHz frequency signal is set as input to a microcontroller, What is time period of the controller  
a) 100 msec      b) 1 msec      c) 1 usecd ✓      d) 1000 sec
- 14) Which one set the zeros pin of port B as output in PIC16F877A  
a) TRISB0=0      b) TRISB=0      c) TRISB0=1      d) TRISB=0xff ✓
- 15) USART in PIC16F877A is used for  
a) Timers      b) Counters ✓      c) Interrupt      d) Serial Communication
- 16) Which of the following is used as external Oscillator connection pins  
a) Osc1/osc2      b) sdi/sda ✓      c) psp0/psp1      d) ccp0/ccp1
- 17) "Int" data type in C programming has how many bytes

- a) 1      b) 2      c) 3      d) 8 ✓
- 18) `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
- 19) `PORTB=0x22`, for this comment how many LED will emit light when all port pins are connected with LED each(controller is taken as source point)  
a) 2      b) 4      c) 6 ✓      d) 1
- 20) What is Baud rate  
a) Bits/second    b) bytes/second    c) word/second    d) doubleword/second ✓
- 21) What is the compiler is used for PIC microcontroller  
a) High tech C    b) XC8 C ✓    c) XC16 C    d) All the above
- 22) Which LED will emit the light
- a)     b)     c)     d)  ✓
- 23) 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
- 24) Which of the following is NOT used for communication purpose  
a) SPI      b) USB      c) GSM      d) MQ2 ✓
- 25) How many digital pins are there in Arduino Uno board  
a) 10      b) 12      c) 14 ✓      d) 16
- 26) If you want to make 1 second delay in Arduino Uno, which one is best suitable  
a) Delay(1)    b) delay(10) ✓    c) delay(100)    d) delay(1000)
- 27) IOT stands  
a) Internet of Things ✓    b) Interest of Tax    c) Interrupt of Timer    d) Invest of Telecommunication
- 28) Which of the following App is used in IOT  
a) Telegram ✓    b) Spotify    c) Snapdeal ✓    d) Blynk
- 29) Which of the Following SOC is used as WI-FI module for IOT  
a) ESB8266    b) Arduino    c) Raspberry pi    d) All the above ✓
- 30) How many analog input pins are there in Arduino uno board  
a) 0      b) 4      c) 6 ✓      d) 8

## MARKS

S.No.	Reg.No.	Name	Basic Embedded System	Basic of Electronics and Kits used	Embedded C and Programming	IOT	Test (30)	Total	Task	Final (75 Task+25 Assessment)
1	922120106001	AARTHY K.P.	12	18	16	8	30	84	76	78
2	922120106002	ABILASH.M	10	18	18	10	20	76	68	70
3	922120106003	AISHWARYA.K	10	20	16	6	24	76	68	70
4	922120106004	AISWARYAB	10	18	18	10	24	80	72	74
5	922120106005	AKASH.E	12	18	16	10	24	80	72	74
6	922120106006	ARAVINDKUMAR.D	8	18	20	10	22	78	70	72
7	922120106007	ARULMURUGANS	10	20	16	10	24	80	72	74
8	922120106008	BALAJI.S	10	18	20	10	24	82	74	76
9	922120106009	G.Balajiprasanth	10	18	20	10	22	80	72	74
10	922120106011	CHANDRU.R	10	18	18	10	26	82	74	76
11	922120106012	DEVAVARSHA.M	12	18	18	10	26	84	76	78
12	922120106013	GLADYSNANCY.J	10	22	16	10	28	86	85	85
13	922120106014	GOKILAVANI.K	8	22	18	10	28	86	85	85
14	922120106015	HARIHARAN.K	10	18	16	10	24	78	70	72
15	922120106016	HARINI.J	12	18	16	8	30	84	76	78
16	922120106017	HARIPRASATH.S	10	22	18	10	30	90	90	90
17	922120106018	HARSHINI.A	10	18	18	10	26	82	74	76
18	922120106019	HEMA.M	10	18	12	8	26	74	67	68
19	922120106020	HIBAROSHAN.A	10	20	18	10	24	82	74	76
20	922120106021	JANANI S	12	24	14	10	26	86	90	89
21	922120106022	JAWAHARS	10	18	18	8	24	78	70	72
22	922120106023	JEEVAV	12	16	18	10	24	80	72	74
23	922120106024	JEEVITHA.S	12	18	18	10	26	84	76	78
24	922120106026	JOELGODFREY.T	10	18	18	10	24	80	72	74

25	922120106027	KANIMOZH.P	12	20	16	10	24	82	74	76
26	922120106028	KARAN.M	10	20	18	10	30	88	90	90
27	922120106030	KARTHIKA .P	12	24	14	10	24	84	76	78
28	922120106031	KAVYASHREE.R.K	12	18	16	10	26	82	74	76
29	922120106032	KESAVAN.J	8	18	18	10	26	80	72	74
30	922120106033	LATHEEPM AIDEEN.A	10	22	18	10	28	88	85	86
31	922120106034	LAVANYA.R	10	22	16	10	26	84	76	78
32	922120106035	MADHUBALA.M	8	20	18	10	26	82	74	76
33	922120106037	MATHAN.K	12	22	18	6	22	80	72	74
34	922120106038	MOHAIDEENABDU LKADHAR.R	12	18	16	10	24	80	72	74
35	922120106039	MOHAMED FAROOK.J	10	18	18	10	24	80	72	74
36	922120106040	MOHAMEDIRFAN.A	10	22	18	10	26	86	75	78
37	922120106041	NAGADHARSHINI.G	10	18	16	8	10	62	56	57
38	922120106042	NANTHISWARAN.M	14	22	16	10	18	80	72	74
39	922120106043	NIRANJANA.M	8	18	14	10	20	70	63	65
40	922120106044	NITHIESKUMAR.E	14	22	16	10	18	80	72	74
41	922120106045	PANDIMADEVI.B	12	18	18	10	26	84	76	78
42	922120106046	PAVITHRA.R	10	22	14	10	28	84	76	78
43	922120106047	PRIYADHARSHINI.A	12	24	14	10	24	84	76	78
44	922120106048	PRIYANKA.S	8	20	14	10	20	72	65	67
45	922120106049	RASITHA MARYAMK	12	20	12	10	18	72	65	67
46	922120106050	V.REENA	10	14	14	8	22	68	61	63
47	922120106051	RESHMITHA.R	10	20	16	6	14	66	59	61
48	922120106052	SABITHA.M.V	10	18	16	8	24	76	68	70
49	922120106053	SAHILAKTHAR.Z	14	18	18	10	22	82	74	76
50	922120106054	SAKTHIPRIYA.P	12	22	12	10	18	74	67	68
51	922120106056	SARAN.P	14	18	18	10	22	82	74	76
52	922120106057	SELVAKUMAR.S	14	22	14	10	18	78	70	72
53	922120106058	SETHUKISHORR	12	22	14	10	18	76	68	70
54	922120106059	SHANMUGARAJA.K	14	18	16	8	24	80	72	74
55	922120106060	SIVARAJM	14	20	16	10	20	80	72	74
56	922120106061	SIVASANKAR.K	14	18	18	8	24	82	74	76
57	922120106062	SONALI.M	12	20	12	10	18	72	65	67
58	922120106063	SOWMIYA.S	14	22	12	10	18	76	68	70

59	922120106064	SOWMYA.S	12	20	12	10	18	72	65	67
60	922120106065	SRI SATHYANARA YANAN.S	12	18	20	8	24	82	74	76
61	922120106066	SUBASHPANDI.R	12	18	16	10	22	78	70	72
62	922120106067	SUBASHREE.M	14	20	12	10	18	74	67	68
63	922120106068	SUGASH.A	12	22	14	10	22	80	72	74
64	922120106069	SUGUNTHAN.G	4	20	16	10	20	70	63	65
65	922120106070	SURENDHARNATH. K	14	24	14	10	20	82	95	92
66	922120106071	TERRANCERITHIK ARON.S	12	24	14	10	20	80	78	79
67	922120106072	THANGARAJ.R	14	18	18	10	24	84	76	78
68	922120106073	UMAPRIYADHARS HINI.J	10	20	16	10	28	84	76	78
69	922120106075	VAISHNAVI.PK	12	16	18	10	26	82	74	76
70	922120106076	VARSHINI.S	12	16	18	10	26	82	74	76
71	922120106077	VIGNESH.M	6	18	14	10	24	72	65	67
72	922120106078	VIGNESH.P	12	18	20	10	24	84	76	78
73	922120106079	VIGNESHP	14	18	18	10	22	82	74	76
74	922120106080	VIGNESHWARB	14	18	18	10	20	80	72	74
75	922120106081	VIJAY RAGUNATHG.S	12	18	20	8	24	82	75	77
76	922120106082	YASHICA.S	10	16	18	10	26	80	72	74
77	922120106301	AGILMARIVAAN.J	12	14	18	10	22	76	68	70
78	922120106302	CARLOS.V	14	18	18	8	24	82	74	76
79	922120106303	HARIKRISHNAN.S	12	14	14	10	22	72	65	67
80	922120106305	LOYALAN LOGESHRAJA.J	12	14	16	10	24	76	68	70
81	922120106306	NITHISH.M.K	8	18	20	10	26	82	74	76
82	922120106308	THAMARAISARA VANAN.MPR	14	20	14	10	20	78	70	72
83	922120106309	VARUN.A	12	18	16	10	22	78	70	72

## FEEDBACK

Feedback is collected from the students to improve the training progress. Based on the feedback collected from students on the second day, content flow was made slow down and interaction with students were also improved.

The overall Feedback is good. Students are expecting more Technological Teaching in every semester.

Name	Participation and interaction were encouraged.	The content was organized and easy to follow.	The trainer was knowledgeable about the training topics.	The time allotted for the training was sufficient.	How satisfied were you with the session content?	The objectives of the training were clearly defined	The topics covered were relevant to me
ABILASHM	Yes	Yes	Agree	No	5	Yes	Yes
AARTHY KP	Yes	Yes	Strongly agree	No	9	Yes	Yes
AISHWARYA K	Yes	Yes	Agree	Yes	9	Yes	Yes
AiswaryaB	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
AKASH.E	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
LATHEEPMAIDEE NA	Yes	Yes	Strongly agree	No	8	Yes	Yes
ARULMURUGANS	Yes	Yes	Neutral	No	9	Yes	Yes
BALAJI.S	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
BALAJIPRASANTH.G	Yes	Yes	Neutral	No	5	Yes	Yes

BHUVANESWARIA	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
CHANDRUR	Yes	Yes	Agree	No	9	Yes	Yes
DEVAVARSHA.M	Yes	Yes	Strongly agree	No	8	Yes	Yes
GLADYSNANCY J	Yes	Yes	Agree	Yes	9	Yes	Yes
GOKILAVANI.K	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
HARIHARAN. K	Yes	Yes	Agree	No	8	Yes	Yes
HARINI J	Yes	Yes	Strongly agree	No	8	Yes	Yes
HARIPRASATHS	Yes	No	Agree	No	3	No	Yes
HARSHINIA	Yes	Yes	Strongly agree	No	8	Yes	Yes
HEMA M	Yes	Yes	Strongly agree	No	8	Yes	Yes
HIBAROSHANA	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
JANANI S	Yes	Yes	Agree	Yes	10	Yes	Yes
JAWAHARS	Yes	Yes	Agree	Yes	9	Yes	Yes
JEEVAV	Yes	Yes	Strongly agree	No	8	Yes	Yes
JEEVITHAS	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
JOELGODFREYT	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
KANIMOZHI.P	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
KARAN M	Yes	No	Agree	Yes	10	Yes	Yes
KARTHIKAP	Yes	No	Agree	Yes	10	Yes	Yes
KAVYASHREE.RK	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
KESAVAN J	Yes	Yes	Agree	Yes	10	Yes	Yes
ARAVIND KUMAR.D	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
LAVANYAR	Yes	Yes	Agree	Yes	8	Yes	Yes
MADHUBALA M	Yes	Yes	Agree	Yes	7	Yes	Yes

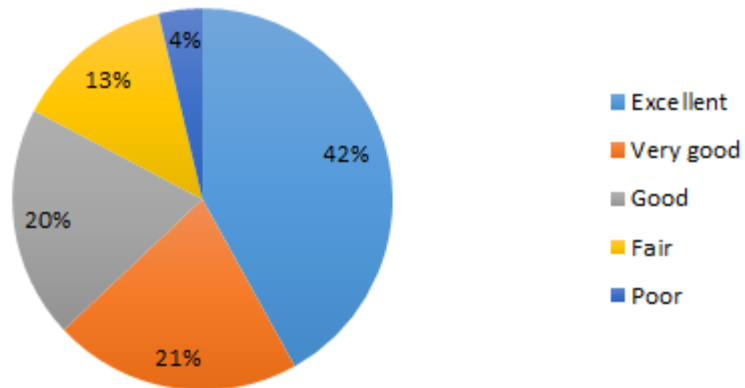


MANISHAB	Yes	Yes	Strongly agree	Yes	8	Yes	Yes
Mathan.K	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
MOHAIDEENABD ULKADHAR.R	Yes	Yes	Agree	Yes	8	Yes	Yes
MOHAMED FAROOKJ	Yes	Yes	Agree	Yes	7	Yes	Yes
MOHAMED IRFANA	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
NAGADHARSHINI.G	Yes	No	Agree	No	8	Yes	Yes
NANTHISWARANM	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
NIRANJANAM	Yes	Yes	Agree	Yes	8	Yes	Yes
NITHIES KUMARE	Yes	Yes	Strongly agree	No	9	Yes	Yes
PANDIMADEVIB	Yes	Yes	Agree	Yes	9	Yes	Yes
PAVITHRAR	Yes	Yes	Neutral	Yes	8	Yes	Yes
PRIYADHARSHINI.A	Yes	Yes	Agree	Yes	6	Yes	Yes
PRIYANKAS	Yes	Yes	Agree	Yes	8	Yes	Yes
RASITHA MARYAMK	Yes	Yes	Agree	Yes	8	Yes	Yes
REENA.V	Yes	Yes	Neutral	Yes	10	Yes	Yes
Reshmitha.R	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
SABITHA M.V	Yes	Yes	Strongly agree	No	10	Yes	Yes
SAHILAKTHARZ	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
SAKTHIPRIYAP	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
SARAN P	Yes	Yes	Agree	No	10	Yes	Yes

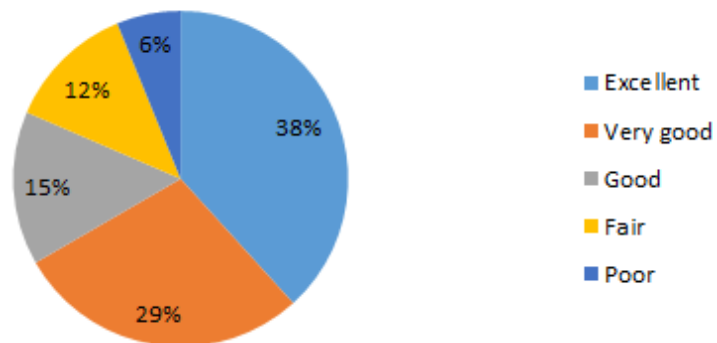
SELVAKUMARS	Yes	Yes	Strongly agree	Yes	8	Yes	Yes
SETHUKISHOR R	Yes	Yes	Strongly agree	No	9	Yes	Yes
SHANMUGARAJA.K	Yes	Yes	Agree	Yes	8	Yes	Yes
SIVARAJ M	Yes	Yes	Strongly agree	No	10	Yes	Yes
SIVASANKAR.K	Yes	Yes	Neutral	Yes	9	Yes	Yes
M. Sonali	Yes	Yes	Agree	Yes	6	Yes	Yes
SOWMIYAS	Yes	Yes	Agree	Yes	9	Yes	Yes
SOWMYAS	No	Yes	Strongly agree	No	10	Yes	Yes
SRI SATHYANARA YANANS	Yes	Yes	Strongly agree	No	8	Yes	Yes
SUBASHPANDI.R	Yes	No	Agree	No	8	Yes	Yes
SUBASHREE. M	Yes	Yes	Strongly agree	Yes	9	Yes	Yes
SUGASH A	Yes	Yes	Agree	Yes	10	Yes	Yes
SUGUNTHAN G	Yes	No	Agree	No	7	Yes	Yes
SURENDHAR NATHK	Yes	No	Agree	Yes	7	No	Yes
TERRENCE RITHIKARON S	Yes	Yes	Agree	No	7	Yes	Yes
THANGARAJ. R	Yes	No	Agree	No	8	Yes	Yes
Uma Priyadharshini.J	Yes	Yes	Agree	Yes	10	Yes	Yes
VAISHNAVI PK	Yes	Yes	Strongly agree	No	9	Yes	Yes
VARSHINIS	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
VIGNESH.M	Yes	Yes	Neutral	Yes	10	Yes	Yes
VIGNESH.P	Yes	Yes	Agree	Yes	10	Yes	Yes
VIGNESH P	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
VIGNESHWARB	Yes	Yes	Strongly agree	Yes	10	Yes	Yes
G.S.VIJAYRAGUNATH	Yes	Yes	Strongly agree	Yes	7	Yes	Yes
YASHICA.S	Yes	Yes	Neutral	Yes	7	Yes	Yes
AGIL MARIVALAN.J	Yes	Yes	Neutral	Yes	6	Yes	Yes
CARLOS V	Yes	Yes	Strongly agree	No	9	Yes	Yes
HARIKRISHNANS	Yes	Yes	Strongly agree	No	8	Yes	Yes

## OVERALLFEEDBACK

**How satisfied were you with the event?**



**How relevant and helpful do you think it was for your Studies?**



## PROJECTALLOTTED

<b>Batch No</b>	<b>StudentsNAME</b>	<b>PROJECT TITLE</b>
1	UMAPRIYADHARSHINI.J	Foot steppowergeneratorusingArduino
	SABITHA.M.V	
	PAVITHARA.R	
	NIRANJANA. M	
2	TERRANCE RITHIKARONS	IOTbasedManholeDetectionandMonitoringSystem
	VIJAYRAGUNATHGS	
	SUBASHPANDIR	
	SRISATHYANARAYANAN	
3	SIVASANKARK	Automaticgasexhauster
	CARLOSV	
	SHANMUGARAJA	
	NITHIESKUMARE	
4	Aishwarya.K	TrafficLightControlSystem
	KavyaShree.R.K	
	Gokilavani.K	
	Madhubala.M	
5	VARSHINI. S	Roomenvironmentcontrol
	VAISHNAVI.P.K	
	SONALI.M	
6	ARAVINDKUMAR.D	IOTINDUSTRYPROTECTIONSYSYSTEMARDUINO
	MK.NITHISH	
	S.BALAJI	
	A.SUGASH	
7	SUBASHREEM	Passwordsafetydoor
	SOWMIYA.S	
	SOWMYA.S	
	SAKTHIPRIYA.P	
8	LAVANYA. R	Toll gatesystem
	Kanimozhi. P	
	Kanimozhi. P	
	Harshini	
9	LOYALANLOGESHRAJA.J	FireFightingRobot
	MOHAIDEENABDULKADHAR	
	JEEVA.V	
	AGILMARIVALAN.J	

10	KARTHIKA P	Weatherreporting(Temperature,LightandHumidity)
	HEMA M	
	JANANI S	
11	NAGADHARSHINI.G	Fingerprint DoorlockusingArduino
	MANISHA.B	
	RESHMITHA.R	
12	NIRANJANAM	Floorcleaningrobot
	PANDIMA DEVIB	
	PRIYANKAS	
13	SUGUNDHAN.G	IoTSmartParkingWithRFID
	VIGNESH.P	
	THANGARAJ	
	HARIKRISHNAN	
14	GLADYSNANCY.J	SmartBlindStickUsingARDUINO
	DEVAVARSHA.M	
	HIBAROSHAN.A	
	JEEVITHA.S	
15	KESAVAN J	TheIntelligentParkingSystem BasedOnLifiTechnology
	CHANDRUR	
	HARI HARANK	
	ARULMURUGAN S	
16	VARUN.A	DualAxisSolarTracker
	SAHILAKTHAR.Z	
	VIGNESH.P	
	VIGNESHWAR.	
17	HARIPRASATHS	SmartHelmet
	LATHEEPMAIDEENA	
	KARANM	
	MOHAMEDIRFANA	
18	K.MATHAN	Embeddedsystem
	MOHAMEDFAROOK.J	
	AKASH.E	
19	JOELGODFREYT	IOTIndustryAutomation
	JAWAHARS	
	BALAJIPRASANTHG	
	ABILASHM	
20	M.Vignesh	GasLeakageDetectorUsingArduino
	M.Nanthiswaran	
	MPR.Thamaraisaravanan	
	Karthikeyan	
21	BHUVANESWARIA	Homeautomationsystem
	HARINI J	
	AARTHY K.P	
22	SETHUKISHORR	IOTbasedcar
	SELVAKUMARS	

	SIVARAJM	
	SARANP	
23	YASHICA.S	WIRELESSCARCONTROLSYSTEM.
24	V.REENA	ContactlessDoorballsystem
25	SURENDHARNATH.K	PID Balancer

# *Certificate of Completion*

*This is to certify that*

**AARTHYKP**

*Has successfully completed the Certification Training on*

**Embedded System Applications & IOT Programming**

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/491  
Date of Issue: 05 Mar 2023*

  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO



# *Certificate of Completion*

*This is to certify that*

**KARANM**

*Has successfully completed the Certification Training on*

**Embedded System Applications & IOT Programming**

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/517  
Date of Issue: 05 Mar 2023*

  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO

# *Certificate of Completion*

*This is to certify that*

**LAVANYAR**

*Has successfully completed the Certification Training on*

***Embedded System Applications & IOT Programming***

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/522  
Date of Issue: 05 Mar 2023*

  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO

# *Certificate of Completion*

*This is to certify that*

**NIRANJANAM**

*Has successfully completed the Certification Training on*

**Embedded System Applications & IOT Programming**

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/531  
Date of Issue: 05 Mar 2023*

*Srinivas Chinamilli*  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO

# *Certificate of Completion*

*This is to certify that*

**PRIYANKAS**

*Has successfully completed the Certification Training on*

**Embedded System Applications & IOT Programming**

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/536  
Date of Issue: 05 Mar 2023*

*Srinivas Chinamilli*  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO

# *Certificate of Completion*

*This is to certify that*

**SRISATHYANARAYANANS**

*Has successfully completed the Certification Training on*

**Embedded System Applications & IOT Programming**

*Authorised by SSM Institute of Engineering  
and Technology From 20-02-2023 to 27-02-2023*

*Certificate No.: Tessolve/CBE/2023-24/552  
Date of Issue: 05 Mar 2023*

  
\_\_\_\_\_  
Srinivas Chinamilli  
CEO