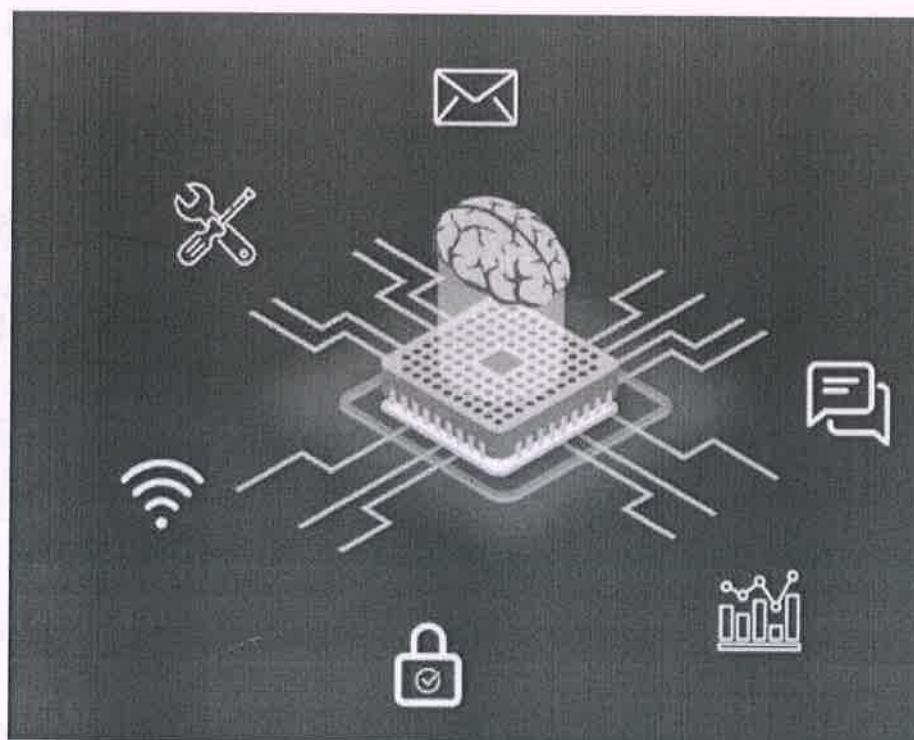




**SSM**

**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

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### 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  
Ms.R.Senthil Kumari, AP/ECE

Staff in-charge

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

HoD/ECE

Dr.S.Karthikai Lakshmi



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### 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**



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



|    |                                       |     |  |
|----|---------------------------------------|-----|--|
|    | Embedded Application                  |     | Processor Architecture, Applications   |
| 2  | Introduction To Energial IDE          | L   | Energial 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  |



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|    |                        |     |   |
|----|------------------------|-----|---|
| 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   |



*Handwritten signature in green ink.*

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MECH – NBA Accredited)

Dindigul – Palani Highway, Dindigul – 624 002

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Value Added Course Summary 2022-2023

**Course Name:** Embedded IoT

**Course Duration:** 48 hours

**Year Offered:** 2022-2023

**Course Instructors:** Mr.Madhavapandian Technical Head  
Mr.M.Marimuthu ,Technical Consultant  
Tessolve Semiconductor Pvt.Ltd,Bangalore.

### Course Outcome:

On completion of the course, students will be able to develop the model of an embedded system and design an IoT based system for any application.

**Course Type:** Self Framed/Collaboration with Industry

### Assessment Mode

**Attendance:** 48 hours

**Number of Participants:** 86

**Scheme of Exam:** MCQ and project work



**Course Co-ordinators**

*R. [Signature]*

*[Signature]*

*[Signature]*  
**HoD/ECE**

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# STUDENT ATTENDANCE

| SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY DINDIGUL<br>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING<br>THIRD YEAR ICE |                 |                     |                                |            |            |            |            |            |            |
|---|-----------------|---------------------|--------------------------------|------------|------------|------------|------------|------------|------------|
| SEMESTER VI   |                 |                     |                                |            |            |            |            |            |            |
| S.NO  | REGISTER NUMBER | NAME OF THE STUDENT | DATE: 20/02/2023 TO 25/02/2023 |            |            |            |            |            |            |
|   |                 |                     | 20/02/2023                     | 22/02/2023 | 23/02/2023 | 24/02/2023 | 25/02/2023 | 27/02/2023 | 28/02/2023 |
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| 12  | 922120106026    | JOE GODFREY         | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
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| 23  | 922120106047    | NATHAN SWARAN M     | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
| 24  | 922120106048    | NITHES KUMAR J      | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
| 25  | 922120106053    | SAMIR AKTHAR Z      | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
| 26  | 922120106056    | SARAN P             | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
| 27  | 922120106057    | SIVAKUMAR S         | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |
| 28  | 922120106058    | SATHU KISHOR R      | AB                             | AB         | AB         | AB         | AB         | AB         | AB         |

20/2



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| SEMESTER VI |                     | DATE: 20.02.2023 TO 25.02.2023 |               |               |               |               |               |               |               |               |               |               |               |
|-------------|---------------------|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| SNO         | REGISTRATION NUMBER | NAME OF THE STUDENT            | 20.02.2023    |               | 22.02.2023    |               | 23.02.2023    |               | 24.02.2023    |               | 25.02.2023    |               | 27.02.2023    |
|             |                     |                                | IN            | AN            | IN            | AN            | IN            | AN            | IN            | AN            | IN            | AN            |               |
| 1           | 922120106000        | ANATHY K P                     | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        | ANATHY        |
| 2           | 922120106003        | ASHWARYA K                     | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          |
| 3           | 922120106004        | ASHWARYA B                     | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          |
| 4           | 922120106010        | BIJANANUSWARA                  | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          |
| 5           | 922120106012        | DIJANAVARSHAM                  | AB            | AB            | AB            | AB            | AB            | AB            | AB            | AB            | AB            | AB            | AB            |
| 6           | 922120106013        | GADYANANCY J                   | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       | JANANCY       |
| 7           | 922120106014        | GAJAPAVANIK                    | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         | GAJAP         |
| 8           | 922120106016        | HARINI J                       | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        | HARINI        |
| 9           | 922120106018        | HARISHINI A                    | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          | ASHU          |
| 10          | 922120106019        | HIMAM                          | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       | M. Kema       |
| 11          | 922120106020        | HIBA KOSHANA                   | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          | A.H.          |
| 12          | 922120106021        | JANANIS                        | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     | S. Janani     |
| 13          | 922120106022        | JITHITHA S                     | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      | JITHITHA      |
| 14          | 922120106027        | KANMOZHIPP                     | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    | KANMOZHIPP    |
| 15          | 922120106030        | KARUPAKA P                     | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      | KARUPAKA      |
| 16          | 922120106031        | KAVYA SHRI R K                 | 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       |
| 18          | 922120106035        | MAADHUBALA M                   | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    | MAADHUBALA    |
| 19          | 922120106036        | MANANISHA B                    | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     | MANANISHA     |
| 20          | 922120106041        | NAGADHARSHINI G                | 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     |
| 22          | 922120106045        | PANDIMA DEVI B                 | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       | PANDIMA       |
| 23          | 922120106046        | PANTHIRA R                     | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      | PANTHIRA      |

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## EVENTREPORT

### COMPANYDETAILS:

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

SMD Tower – 3rd Floor, 2252, Trichy

Road, Singanallur, Coimbatore–

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

22221199

Email:

### **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**



15

*Dr.D.*  
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## 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.



  
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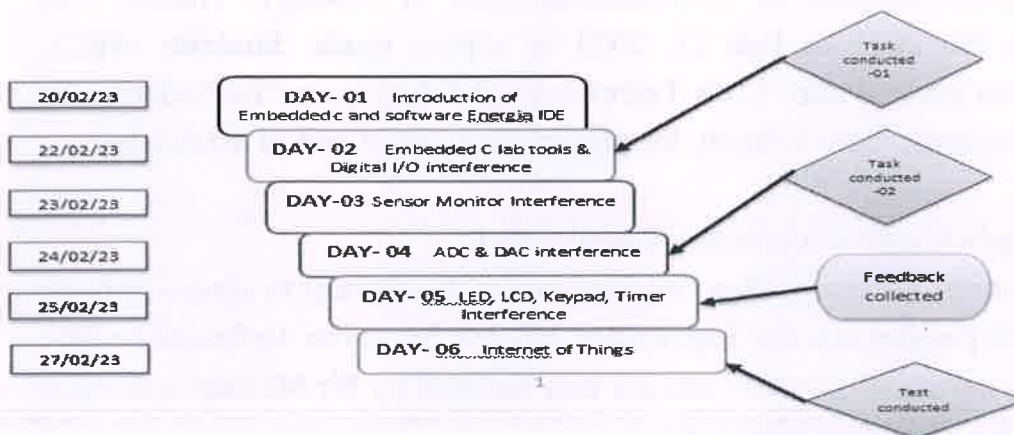


## INTRODUCTION ABOUT THE TRAINING

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:



  
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## Tasks performed by Students

1. Traffic Light
2. Positive & Negative Logic
3. Pushbutton Led glow in kit
4. Switch Positive Logic - Led Negative Logic
5. Switch Negative Logic - Led Positive Logic
6. 2 Led glow in kit
7. Traffic light with extra 8 Led
8. Brightness of Led control using kit
9. Potentiometer 10. The
- ree Sensor 11. Keypad with 4 LED
12. Keypad with 7 Segment 1
3. Keypad with LCD


As per order given by our respected Principal Dr. D. Senthil Kumaran, The Technological Teaching for all the students to be implemented immediately that should be life changing learning process in their academic. To implement this training, Department of Electronics and Communication Engineering is immediately planned and got approval from company as well as management of SSMIET. The date was fixed between Feb 20, 2023 to Feb 27, 2023 in offline mode. Students of ECE department were instructed to attend this Technological Training on "Embedded IoT" without fail, and also insist them to be ready for project expo at the end of the training.

This session was started with introduction class at seminar hall -

01, Mr. Madhavapandian, Technical Head advised our ECE students to concentrate on the core subjects and pointed out the importance of core jobs. The technical session was started 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 questions during the Hands on training. Trainers gave plenty of project ideas to students and encouraged them to do mini project immediately after completing this training session. Three tests were conducted during the training.



  
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## 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.



*[Handwritten Signature]*  
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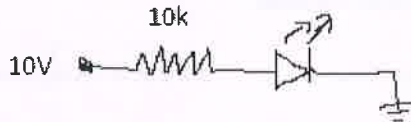


# ASSESSMENT QUESTIONS

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 pas 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 pas zero  
a) Fe                      b) 00                      c) ff                      d) 9a
- 7) In the circuit find current through LED with cut off voltage of 1  
Va) 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 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) 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



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- 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

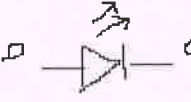

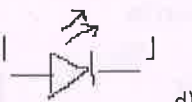
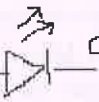
20) What is Baudrate

- 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

- a)     b)     c)     d) 

23) Which of the following software tools/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



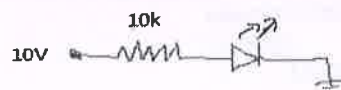
  
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## ASSESSMENT QUESTIONS

Choose the correct option:

Name/ S. Sowmiya  
Reg.No: 922120106063

- 1) In Digital, Ground is equal to .....  
a) 0 ✓      b) 1      c) Either 0 or 1      d) 2
- 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)



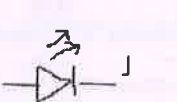
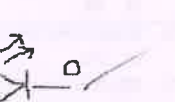


- 8) 16 \* 2 LCD display has how many pins  
a) 12      b) 8      c) 32      d) 16 ✓
- 9) PIC16F877A is a .....bit microcontroller  
a) 8 ✓      b) 16      c) 12      d) 32
- 10) Sensor can detect which of the following  
a) Temperature      b) Moisture      c) Gas      d) All the above ✓
- 11) What is the programming environment is used develop program for PIC microcontrollers  
a) Kell      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 usec ✓      d) 1000 sec
- 14) Which one set the zeros pin of port B as output in PIC16F877A  
a) TRISB=0      b) TRISB=0      c) TRISB=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


21



*[Signature]*  
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- 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
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- a)     b)     c)     d) 
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- 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) Raspberrypi    d) All the above
- 30) How many analog input pins are there in Arduino uno board  
a) 0    b) 4    c) 6    d) 8




  
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## MARKS

| S.N<br>o. | Reg.No.      | Name             | Basic<br>Embedde<br>dSystem | Basic<br>ofElectr<br>onics<br>andKitu<br>sed | Embedded<br>C<br>andProgra<br>mming | IOT | Test<br>(30) | Total | Task | Final<br>(75<br>Task+25Ass<br>essment) |
|-----------|--------------|------------------|-----------------------------|--|-------------------------------------|-----|--------------|-------|------|--|
| 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 | AIWARYAB         | 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                                     |



  
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|    |              |                            |    |    |    |    |    |    |    |    |
|----|--------------|----------------------------|----|----|----|----|----|----|----|----|
| 25 | 922120106027 | KANIMOZHILP                | 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<br>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<br>LKADHAR.R | 12 | 18 | 16 | 10 | 24 | 80 | 72 | 74 |
| 35 | 922120106039 | MOHAMED<br>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<br>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<br>SATHYANARA<br>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.<br>K          | 14 | 24 | 14 | 10 | 20 | 82 | 95 | 92 |
| 66 | 922120106071 | TERRANCERITHIK<br>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<br>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<br>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<br>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<br>VANAN.MPR    | 14 | 20 | 14 | 10 | 20 | 78 | 70 | 72 |
| 83 | 922120106309 | VARUN.A                      | 12 | 18 | 16 | 10 | 22 | 78 | 70 | 72 |



*(Handwritten signature)*

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## 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                                    |



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|                 |     |     |                |     |    |     |     |
|-----------------|-----|-----|----------------|-----|----|-----|-----|
| 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<br>ULKADHAR.R | Yes | Yes | Agree          | Yes | 8  | Yes | Yes |
| MOHAMED<br>FAROOKJ         | Yes | Yes | Agree          | Yes | 7  | Yes | Yes |
| MOHAMED<br>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<br>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 |




  
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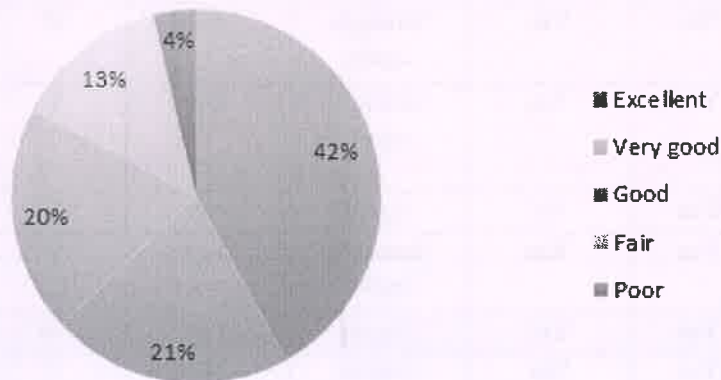
|                       |     |     |                |     |    |     |     |
|-----------------------|-----|-----|----------------|-----|----|-----|-----|
| SELVAKUMARS           | Yes | Yes | Strongly agree | Yes | 8  | Yes | Yes |
| SETHUKISHOR R         | Yes | Yes | Strongly agree | No  | 9  | Yes | 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 |
| VIGNESHWAR B          | 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 |



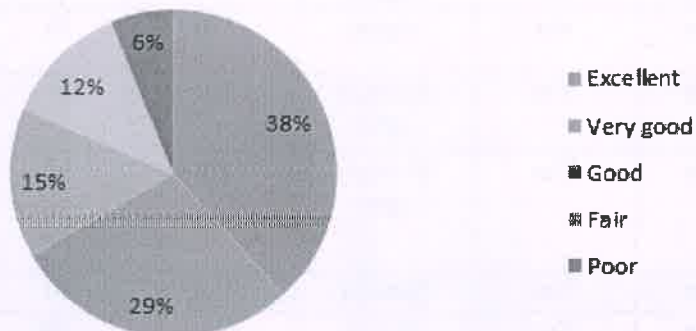
  
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## OVERALLFEEDBACK

How satisfied were you with the event?



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



  
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## PROJECT ALLOTTED

| Batch No | Students NAME        | PROJECT TITLE                               |
|----------|----------------------|---|
| 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       | IOTINDUSTRYPROTECTIONSYSTEMARDUINO          |
|          | 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      |   |



  
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|    |                       |  |
|----|-----------------------|--|
| 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<br>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              |



  
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Certificate No.: TESSOLVE/CM/20-23/494  
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