



# SRI VENKATESWARA

## COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-631203, Tiruvallur TK & DT  
Approved by AICTE New Delhi & Affiliated to Anna University, Chennai  
(A Telugu Minority Institution)

**19EEEVAC02 - EMBEDDED SYSTEM DESIGN USING ARDUINO**

### EVENT REPORT

**Name of the Course: EMBEDDED SYSTEM DESIGN USING ARDUINO**

**Name of the Instructor: Mr.M. Namachivayam AP/EEE/SVCET**

Mr.P. Justin Raj AP/EEE/SVCET

**Year and Branch:II, III IV & ME-PED – ELECTRICAL AND ELECTRONICS ENGINEERING**

**Duration of Course: 32 Hrs (02.03.2020 to 07.03.2020)**

#### **SUMMARY OF THE EVENT:**

The Course was inaugurated on **02.03.2020** at 8.30 am by our respectable Principal and HOD. As per the Course plan session was started and went smooth for the Remaining days. On the last day **07.03.2020** by 12.30 pm the course was Completed Successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained Knowledge on “**Embedded system Design using ARDUINO**”

#### **ASSESMENT MODE:**

No of Students Enrolled: 107

Scheme of Exam: Offline

No of Students appeared: 107

No of Students Passed: 107

Date of Exam: 07.03.2020

#### **OUTCOME:**

After the completion of the Course, the student can apply knowledge of Embedded System in Engineering Field, apply Concept of Embedded-C Concept of C language in Engineering Field, Design basic Sensors and Actuators Using Arduino, to gain Knowledge of different Micro-controllers Architectures

  
Coordinator

(Mrs.S.S.Divya)



  
HOD / EEE

(Mr.M.Namachivayam)

**PRINCIPAL**

**Sri Venkateswara College of  
Engineering and Technology,  
Thirupachur, Tiruvallur - 631 203**

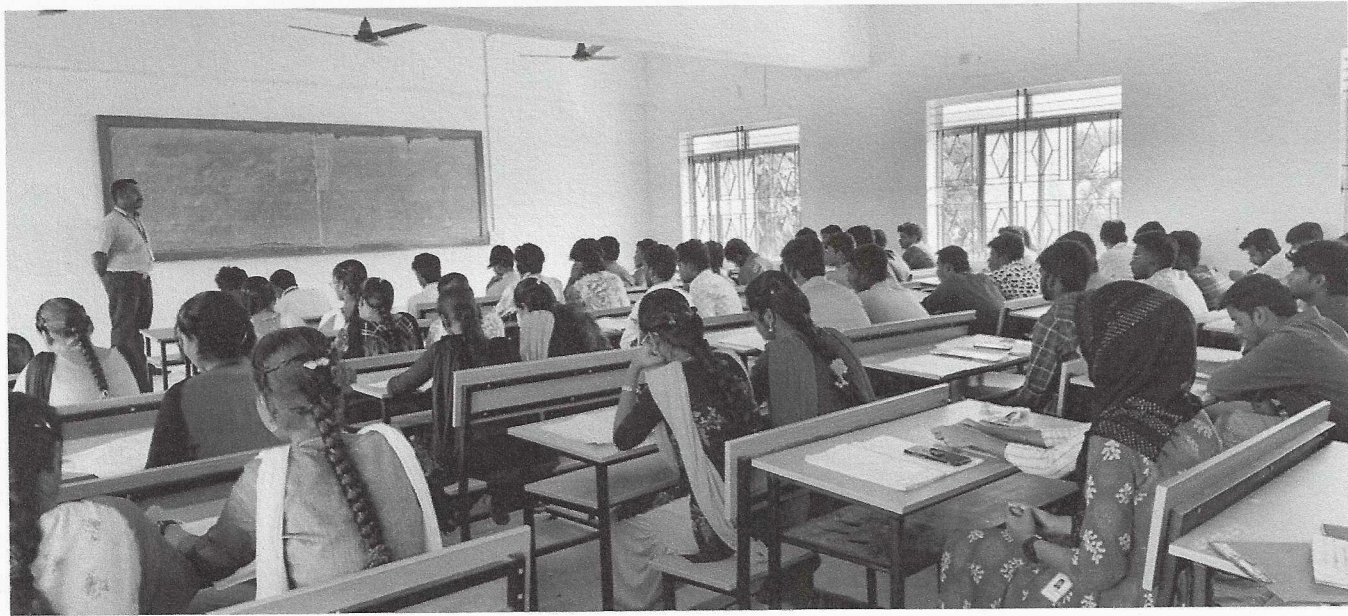


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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO



Value added Course on “EMBEDDED SYSTEM DESIGN USING ARDUINO” Handled by  
Mr.M. Namachivayam, Asst.Prof, SVCET and Mr. P. Justin Raj, Asst.Prof, SVCET



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### REQUEST LETTER

**From**

Mr M. Namachivayam  
HOD /EEE  
SVCET  
Thirupachur.

**To**

The Principal  
SVCET  
Thirupachur

*Permitted*  
*Jy*

Respected sir,

Sub: Requesting permission to conduct a 6 Days value added course-Reg

As the Head of **Electrical & Electronics Engineering** Department, I would like to request your support and permission to conduct Training Program on “**Embedded System Design Using Arduino**” in our department. There is a need that has been identified of keeping the students up to date with the new technologies. Most students would not have knowledge on this area which is not our available in our curriculum. So, there is need for a there is need for this program to challenge the industry opportunities.

The dates for the Training program have been fixed. The Training will start on 02.03.2020 and end on 07.03.2020 (32Hrs). Will be handled by **Mr.M. Namachivayam, Asst.Prof, SVCET and Mr.P. Justin Raj, Asst.Prof, SVCET**. I kindly request your assistance in providing Tea and snack for the participants (students).

Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the Training program.

Thanking You

*M. Namachivayam*  
HOD / EEE

(Mr.M. Namachivayam)



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*Jy*  
PRINCIPAL

(Dr. J. Venkatesh)



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27.02.2020

### CIRCULAR

The department of Electrical and Electronics Engineering will be conducting a value-added course on "Embedded system Design using ARDUINO" from 02.03.2020 to 07.03.2020 (32 Hrs). It is proposed to keep the students up to date with the new technologies.

All the students are requested to participate actively, certificate will be provided for the enrolled Participants.

All the interested candidates should enroll their names to Mrs.S.S. Divya, Assistant Professor, Department of Electrical and Electronics Engineering on or before 29.02.2020

HOD / EEE

(Mr.M. Namachivayam)

PRINCIPAL

(Dr. J. Venkatesh)



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
"EMBEDDED SYSTEM DESIGN USING ARDUINO"

Date : 02.03.2020 - 07.03.2020

## RESOURCE PERSON

1. Mr. M. Namachivayam /Asst Prof / SVCET
2. Mr. P. Justin Raj /Asst Prof / SVCET



**Mr. M. Namachivayam**

**HOD / EEE**

**PRINCIPAL**  
Sri Venkateswara College of  
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**Dr.J. Venkatesh**

**PRINCIPAL**



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### RESOURCE PERSON PROFILE

#### Resource person:1

Name : Mr.M. Namachivayam  
Designation : Assistant Professor  
Department : EEE  
Organization : SVCET  
Phone Number : 9940269316  
Email.ID : namchu30@gmail.com  
Qualification : ME –Power Systems Engineering  
Experience : 7 years

#### Resource person:2

Name : Mr. P.Justin Raj  
Designation : Assistant Professor  
Department : EEE  
Organization : SVCET  
Phone Number : 9789105712  
Email.ID : justinmeped@gmail.com  
Qualification : ME-Power Electronics Engineering  
Experience : 5 Years



  
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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

#### COURSE CONTENT

##### OBJECTIVE:

- To Impart Knowledge of Embedded system Design.
- To introduce Arduino Software.
- To impart Knowledge of sensors and actuators using Arduino

##### MODULE-I: EMBEDDED SYSTEM DESIGN:

Introduction to embedded systems, Components of embedded system, Advantages and applications of embedded systems. Examples of real time embedded systems and how they are manufactured industry ready, Different Microcontroller Architectures (CISC, RISC, and ARISC). Internal Resources & Hardware Chips in Details. History of AVR Microcontrollers and Features. Memory Architectures (RAM/ROM).

##### MODULE-II: LEARNING ARDUINO PLATFORM

Introduction to ARDUINO, ARDUINO History and Family. Programming in Embedded-C, Concepts of C language. General Hardware Interfacings: LED's Switches Seven Segment Display Multi Segment Displays Relays (AC Appliance Control) LCD Buzzer IR Sensors Other Digital Sensors.

##### MODULE-III: THE BASIC SENSORS AND ACTUATORS USING ARDUINO


Introduction to sensors and actuators. How to connect and work with different sensors, such as Humidity, Proximity, IR Motion, Accelerometer, Sound, Light Distance, Pressure, Thermal etc to ARDUINO Board. Reading various sensor data on serial monitor and LCD Display. Functioning of actuator.


##### OUTCOMES:

- Apply Knowledge of Embedded system in engineering field.
- Apply concept of Embedded-C and Concept of C language in engineering field.
- To design basic sensors and actuators using Arduino.

  
COORDINATOR  
(Mrs.S.S.Divya)



  
PRINCIPAL  
(Mr.M.Namachivayam)

  
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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

### COURSE SCHEDULE

| 6 Days Training Schedule – EMBEDDED SYSTEM DESIGN USING ARDUINO |                      |                                      |   |
|---|----------------------|--------------------------------------|---|
| Day & Date  | Session & Time       | Speaker Name                         | Session Topics  |
| Day 1 & 02.03.2020  | 8.30 am to 10.30am   | Mr.M. Namachivayam, Asst.Prof, SVCET | Embedded System design  |
|   | 10.45 am to 12.45 pm | Mr, P Justin Raj, Asst Prof, SVCET   | Introduction to embedded systems  |
|   | 1.30 pm to 3.30pm    | Mr.M. Namachivayam, Asst.Prof, SVCET | Examples of real time embedded systems                                      |
| Day 2 & 03.03.2020  | 8.30 am to 10.30am   | Mr, P Justin Raj, Asst Prof, SVCET   | Microcontroller Architectures (CISC, RISC, ARISC).                          |
|   | 10.45 am to 12.45 pm | Mr.M. Namachivayam, Asst.Prof, SVCET | Internal Resources & Hardware Chips in Detail                               |
|   | 1.30 pm to 3.30pm    | Mr, P Justin Raj, Asst Prof, SVCET   | History of AVR Microcontrollers & Features. Memory Architectures (RAM/ROM). |
| Day 3 & 04.03.2020  | 8.30 am to 10.30am   | Mr.M. Namachivayam, Asst.Prof, SVCET | Introduction to ARDUINO Memory  |
|   | 10.45 am to 12.45 pm | Mr, P Justin Raj, Asst Prof, SVCET   | Programming in Embedded-C,  |
|   | 1.30 pm to 3.30pm    | Mr.M. Namachivayam, Asst.Prof, SVCET | Concepts of C language  |
| Day 4 & 05.03.2020  | 8.30 am to 10.30am   | Mr, P Justin Raj, Asst Prof, SVCET   | General Hardware Interfacings   |
|   | 10.45 am to 12.45 pm | Mr.M. Namachivayam, Asst.Prof, SVCET | The basic sensors   |
|   | 1.30 pm to 3.30pm    | Mr, P Justin Raj, Asst Prof, SVCET   | Actuators using Arduino Applications  |
| Day 5 & 06.03.2020  | 8.30 am to 10.30am   | Mr.M. Namachivayam, Asst.Prof, SVCET | Reading various sensor data on serial monitor and LCD Display.              |
|   | 10.45 am to 12.45 pm | Mr, P Justin Raj, Asst Prof, SVCET   | Functioning of actuator.  |
| Day 6 & 07.03.2020  | 8.30 am to 12.30am   | Mr.M. Namachivayam, Asst.Prof, SVCET | Real time applications of Arduino & Test                                    |

  
COORDINATOR  
(Mrs.S.S. Divya)



  
HOD / EEE  
(Mr.M. Namachivayam)  
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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

|                        |                                      |
|------------------------|--------------------------------------|
| Course Code            | 19EEEVAC01                           |
| Name of the Course     | EMBEDDED SYSTEM DESIGN USING ARDUINO |
| Duration of the Course | 32 Hrs                               |
| Academic Year          | 2019-2020                            |
| Period of the Course   | 02.03.2020 to 07.03.2020             |

### LIST OF STUDENTS ENROLLED

| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS        | SIGNATURE       |
|------|------|-----------------|-------------------------|-----------------|
| 1    | II   | 112418105001    | ASWIN.E                 | Aswin.E         |
| 2    | II   | 112418105002    | BHARANIDHRAN.M          | Bharanidhran    |
| 3    | II   | 112418105003    | BHARATHI C.K            | Bharathi        |
| 4    | II   | 112418105004    | DHAYANITHI.G            | Dhayanithi      |
| 5    | II   | 112418105006    | DINESH.B                | Dinesh.B        |
| 6    | II   | 112418105007    | KARTHICK .D             | Karthick        |
| 7    | II   | 112418105008    | MOHAMMED JUNAID AHMED.N | Mohammed Junaid |
| 8    | II   | 112418105009    | PRASANNA KUMAR.K        | Prasanna        |
| 9    | II   | 112418105010    | RAKESH.R                | Rakesh          |
| 10   | II   | 112418105011    | SHARAN.G                | Sharan.G        |
| 11   | II   | 112418105012    | TAMILVANAN.D            | Tamilvanan      |
| 12   | II   | 112418105013    | VENKATESAN.R            | Venkatesan.R    |
| 13   | II   | 112418105014    | VIJAYA KUMAR.S          | Vijaya Kumar    |
| 14   | II   | 112418105015    | VINOTHINI.R             | Vinoothini      |
| 15   | II   | 112418105016    | YUVARAJ.N               | Yuvaraj         |
| 16   | II   | 112418105302    | ANBARASAN A             | Anbarasan       |



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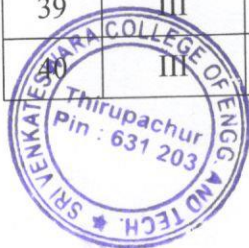


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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS  | SIGNATURE      |
|------|------|-----------------|-------------------|----------------|
| 17   | II   | 112418105304    | BALAJI C          | Balaji         |
| 18   | II   | 112418105305    | BALAKUMARAN S     | Balakumaran    |
| 19   | II   | 112418105306    | DEEPAK D          | Deepak         |
| 20   | II   | 112418105308    | JAYASEELAN D      | Jayaseelan     |
| 21   | II   | 112418105310    | PERUMAL G         | Perumal G      |
| 22   | II   | 112418105311    | PRAGADEESHWARAN A | Pragadeeswaran |
| 23   | II   | 112418105312    | RAMYA S           | Ramya S        |
| 24   | II   | 112418105313    | SATHYA MOORTHY R  | Sathya moorthy |
| 25   | II   | 112418105314    | SUBHAM THAKUR     | Subham Thakur  |
| 26   | II   | 112418105315    | SUGUMARAN A       | Sugumaran, A   |
| 27   | II   | 112418105316    | SUSANTHIKA C      | Susanthika     |
| 28   | II   | 112418105317    | VASANTH V         | Vasanth        |
| 29   | II   | 112418105318    | VINOTH KUMAR M    | Vinodkumar, M  |
| 30   | III  | 112417105001    | ANANDHA PRIYA.R   | Anandha Priya  |
| 31   | III  | 112417105002    | AKASH.A           | Akash          |
| 32   | III  | 112417105003    | AMMU.E            | Ammu.E         |
| 33   | III  | 112417105004    | ANAND.S           | Anand S        |
| 34   | III  | 112417105005    | CHANDRAMOULI.K    | Chandramouli K |
| 35   | III  | 112417105007    | DIVAKAR.K         | Divakar        |
| 36   | III  | 112417105008    | GAYATHRI.V        | V. Gayathri    |
| 37   | III  | 112417105009    | KIRUBAKARAN.G     | Kirubakaran    |
| 38   | III  | 112417105010    | KISHOREKUMAR S    | Kishorekumar   |
| 39   | III  | 112417105011    | MONISH.B          | Monish         |
|      | III  | 112417105013    | NAVANEETHA HALDER | Navaneetha     |



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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS   | SIGNATURE          |
|------|------|-----------------|--------------------|--------------------|
| 41   | III  | 112417105014    | NAVEENA.P          | Naveena P          |
| 42   | III  | 112417105015    | PRADEEBAN.V        | Pradeeban V        |
| 43   | III  | 112417105017    | PRAVEEN KUMAR.J    | Praveen Kumar J    |
| 44   | III  | 112417105018    | RAMYA.J.C          | Ramya J.C          |
| 45   | III  | 112417105019    | SNEHA.M            | Sneha M            |
| 46   | III  | 112417105020    | SONA.S             | Sona S             |
| 47   | III  | 112417105021    | SUBATHRA.K.S       | Subathra K.S       |
| 48   | III  | 112417105023    | SURESH KUMAR.R     | Suresh Kumar R     |
| 49   | III  | 112417105025    | UMA MAHESHWARI.R   | Uma Maheshwari R   |
| 50   | III  | 112417105026    | VIGNESHWAR.D       | Vigneshwar D       |
| 51   | III  | 112417105027    | VIGNESHWARAN.R     | Vigneshwaran R     |
| 52   | III  | 112417105028    | VIJAYESHWARAN.B    | Vijayeshwaran B    |
| 53   | III  | 112417105029    | VIKRAM.S           | Vikram S           |
| 54   | III  | 112417105301    | AJAY KUMAR.K       | Ajay Kumar K       |
| 55   | III  | 112417105302    | JENIPER.M          | Jeniper M          |
| 56   | III  | 112417105303    | KAMALAKANNAN.V     | Kamalakkannan V    |
| 57   | III  | 112417105304    | KARTHIRAVAN.D      | Karthiravan D      |
| 58   | III  | 112417105305    | LAKSHMI PRASAD.D.M | Lakshmi Prasad D.M |
| 59   | III  | 112417105306    | MAGESHWARAN.M      | Mageshwaran M      |
| 60   | IV   | 112416105001    | AJITH KUMAR.E      | Ajith Kumar E      |
| 61   | IV   | 112416105002    | ANUPRIYA.R         | Anupriya R         |
| 62   | IV   | 112416105003    | ARAVINDAN.R        | Aravindan R        |
| 63   | IV   | 112416105004    | DEEPA LAKSHMI.S    | Deepa Lakshmi S    |
| 64   | IV   | 112416105005    | DINESHKUMAR.C      | Dineshkumar C      |



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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS | SIGNATURE     |
|------|------|-----------------|------------------|---------------|
| 65   | IV   | 112416105006    | ELAKIYA.E        | E. Elakiya    |
| 66   | IV   | 112416105007    | GANESAN.R        | Ganesan       |
| 67   | IV   | 112416105008    | HARI KUMAR.K     | Hari Kumar    |
| 68   | IV   | 112416105009    | INBAA MARI.M     | Inbaa Mari    |
| 69   | IV   | 112416105010    | JAGAN.D          | Jagan         |
| 70   | IV   | 112416105011    | KARTHIKA.K       | Karthika      |
| 71   | IV   | 112416105012    | LAKSHMI.N        | Lakshmi       |
| 72   | IV   | 112416105013    | MOHANA PRIYA.S   | Mohana Priya  |
| 73   | IV   | 112416105014    | NAVAJOTHI.R      | Navajothi     |
| 74   | IV   | 112416105015    | PAVITHRA.A       | Pavithra      |
| 75   | IV   | 112416105016    | PRABAVATHI.K     | Pravathi      |
| 76   | IV   | 112416105017    | PUNITH KUMAR.R   | Punith Kumar  |
| 77   | IV   | 112416105019    | RENUKA.R         | Renuka        |
| 78   | IV   | 112416105020    | SAKTHIVEL.T      | Sakthivel     |
| 79   | IV   | 112416105021    | SARANRAJ.D       | Saranraj      |
| 80   | IV   | 112416105022    | SIVAKUMAR.B      | Sivakumar     |
| 81   | IV   | 112416105023    | VASANTH KUMAR.S  | Vasanth Kumar |
| 82   | IV   | 112416105024    | VEL.S            | S. Vel        |
| 83   | IV   | 112416105025    | VIJAY.M          | Vijay         |
| 84   | IV   | 112416105301    | ASHOK KUMAR P    | Ashok Kumar   |
| 85   | IV   | 112416105303    | BABU R           | R. Babu       |
| 86   | IV   | 112416105304    | BALAJI G         | G. Balaji     |
| 87   | IV   | 112416105305    | BALAJI O         | Balaji O      |
| 88   | IV   | 112416105308    | GAJENDRAN G      | G. Gajendra   |



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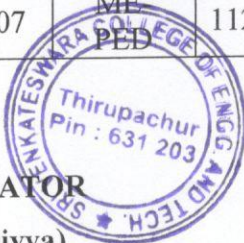
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| S.NO | YEAR   | REGISTER NUMBER | NAME OF STUDENTS | SIGNATURE         |
|------|--------|-----------------|------------------|-------------------|
| 89   | IV     | 112416105309    | GOKULA KANNAN K  | K. Gokul          |
| 90   | IV     | 112416105313    | LOKESH.T         | T. Lokesh         |
| 91   | IV     | 112416105314    | LOKESH KUMAR M   | Lokesh            |
| 92   | IV     | 112416105315    | MUNI SEKAR G     | Muni G.           |
| 93   | IV     | 112416105316    | PRADEEP KUMAR.B  | Pradeep           |
| 94   | IV     | 112416105317    | PRAKASH S        | Prakash S.        |
| 95   | IV     | 112416105318    | PRAVEEN KANNAN R | Praveen           |
| 96   | IV     | 112416105322    | SARAVANAN K      | Saravanan         |
| 97   | IV     | 112416105324    | SEKAR R B        | Sekar R.B         |
| 98   | IV     | 112416105701    | SATHISH KUMAR K  | Sathish K.        |
| 99   | ME-PED | 112419415001    | AJITH KUMAR R    | Ajith Kumar       |
| 100  | ME-PED | 112419415002    | ANANTHI S        | Ananthi S         |
| 101  | ME-PED | 112419415003    | NANDHINI M       | Nandhini          |
| 102  | ME-PED | 112419415004    | SRIRANJANI N     | SriRanjani        |
| 103  | ME-PED | 112418415001    | ARCHANA K        | Archana K         |
| 104  | ME-PED | 112418415002    | BHARATH M        | Bh. Parthasarathy |
| 105  | ME-PED | 112418415003    | JOTHILAKSHMI     | Jothilakshmi      |
| 106  | ME-PED | 112418415004    | MATHIAS RAJ M    | Mathias Raj       |
| 107  | ME-PED | 112418415006    | SUDHA K          | Sudha             |

  
COORDINATOR  
(Mrs.S.S. Divya)



  
HOD / EEE

(Mr.M. Namachivayam)

  
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|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>Course Code</b>            | 19EEEVAC01                           |
| <b>Name of the Course</b>     | EMBEDDED SYSTEM DESIGN USING ARDUINO |
| <b>Duration of the Course</b> | 32 Hrs                               |
| <b>Academic Year</b>          | 2019-2020                            |
| <b>Period of the Course</b>   | 02.03.2020 to 07.03.2020             |

### ATTENDANCE

| S.NO | YE AR | REGISTER NUMBER | NAME OF STUDENTS        | 02.03.20              |                       | 03.03.20              |                       | 04.03.20              |                       | 05.03.20              |                       | 06.03.20              |                       | 07.03.20              |    | TOTAL HOURS (32) |
|------|-------|-----------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|------------------|
|      |       |                 |                         | 6 HOURS               |                       | 6 HOURS               |                       | 6 HOURS               |                       | 6 HOURS               |                       | 4 HOURS               |                       | 4 HOURS               |    |                  |
|      |       |                 |                         | FN                    | AN                    | FN                    | AN                    | FN                    | AN                    | FN                    | AN                    | FN                    | AN                    | FN                    | AN |                  |
| 1    | II    | 112418105001    | ASWIN.E                 | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | E.A                   | 32 |                  |
| 2    | II    | 112418105002    | BHARANIDHRAN.M          | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | 32 |                  |
| 3    | II    | 112418105003    | BHARATHI C.K            | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | Bh                    | 32 |                  |
| 4    | II    | 112418105004    | DHAYANITHI.G            | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | Dh                    | 32 |                  |
| 5    | II    | 112418105006    | DINESH.B                | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | Dn                    | 32 |                  |
| 6    | II    | 112418105007    | KARTHICK .D             | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | Kn                    | 32 |                  |
| 7    | II    | 112418105008    | MOHAMMED JUNAID AHMED.N | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | Mohammed Junaid Ahmed | 32 |                  |
| 8    | II    | 112418105009    | PRASANNA KUMAR.K        | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | K.Pk                  | 32 |                  |
| 9    | II    | 112418105010    | RAKESH.R                | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | Rn                    | 32 |                  |
| 10   | II    | 112418105011    | SHARAN.G                | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | Sh                    | 32 |                  |
| 11   | II    | 112418105012    | TAMILVANAN.D            | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | Tamil                 | 32 |                  |
| 12   | II    | 112418105013    | VENKATESAN.R            | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | R.Ven                 | 32 |                  |
| 13   | II    | 112418105014    | VIJAYA KUMAR.S          | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | Vk                    | 32 |                  |
| 14   | II    | 112418105015    | VINOTHINI.R             | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | R.Vi                  | 32 |                  |
| 15   | II    | 112418105016    | YUVARAJ.N               | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | Yu                    | 32 |                  |
| 16   | II    | 112418105302    | ANBARASAN A             | An                    | An                    | An                    | An                    | An                    | An                    | An                    | An                    | An                    | An                    | An                    | 32 |                  |
| 17   | II    | 112418105304    | BALAJI C                | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | Bc                    | 32 |                  |
| 18   | II    | 112418105305    | BALAKUMARAN             | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | Bk                    | 32 |                  |



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|------|-------|-----------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|
|      |       |                 |                   | 6 HOURS    |            | 6 HOURS    |            | 6 HOURS    |            | 6 HOURS    |            | 4 HOURS    |            | 4 HOURS    |            |                  |
|      |       |                 |                   | FN         | AN         | FN         | AN         | FN         | AN         | FN         | AN         | FN         | AN         | FN         | AN         |                  |
| 19   | II    | 112418105306    | DEEPAK D          | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | Dmk        | 32               |
| 20   | II    | 112418105308    | JAYASEELAN D      | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | gyp        | 32               |
| 21   | II    | 112418105310    | PERUMAL G         | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | Pml        | 32               |
| 22   | II    | 112418105311    | PRAGADEESHWARAN A | prg        | prg        | prg        | prg        | prg        | prg        | prg        | prg        | prg        | prg        | prg        | prg        | 32               |
| 23   | II    | 112418105312    | RAMYA S           | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | Ramy       | 32               |
| 24   | II    | 112418105313    | SATHYA MOORTHY R  | sath       | sath       | sath       | sath       | sath       | sath       | sath       | sath       | sath       | sath       | sath       | sath       | 32               |
| 25   | II    | 112418105314    | SUBHAM THAKUR     | subh       | subh       | subh       | subh       | subh       | subh       | subh       | subh       | subh       | subh       | subh       | subh       | 32               |
| 26   | II    | 112418105315    | SUGUMARAN A       | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | A.Sug      | 32               |
| 27   | II    | 112418105316    | SUSANTHIKA C      | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | C.S        | 32               |
| 28   | II    | 112418105317    | VASANTH V         | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | Vas        | 32               |
| 29   | II    | 112418105318    | VINOTH KUMAR M    | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | Vino       | 32               |
| 30   | III   | 112417105001    | ANANDHA PRIYA.R   | anand      | anand      | anand      | anand      | anand      | anand      | anand      | anand      | anand      | anand      | anand      | anand      | 32               |
| 31   | III   | 112417105002    | AKASH.A           | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | Aksh       | 32               |
| 32   | III   | 112417105003    | AMMU.E            | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | Ammu       | 32               |
| 33   | III   | 112417105004    | ANAND.S           | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | Anand      | 32               |
| 34   | III   | 112417105005    | CHANDRAMOULI.K    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | chandra    | 32               |
| 35   | III   | 112417105007    | DIVAKAR.K         | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | Divakar    | 32               |
| 36   | III   | 112417105008    | GAYATHRI.V        | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | Gayathri   | 32               |
| 37   | III   | 112417105009    | KIRUBAKARAN.G     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | Kiruba     | 32               |
| 38   | III   | 112417105010    | KISHOREKUMAR S    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | Kishore    | 32               |
| 39   | III   | 112417105011    | MONISH.B          | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | Monish     | 32               |
| 40   | III   | 112417105013    | NAVANEETHA HALDER | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | Navaneetha | 32               |
| 41   | III   | 112417105014    | NAVEENA.P         | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | Naveena    | 32               |



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|------|-------|-----------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|
|      |       |                 |                    | 6 HOURS   |           | 6 HOURS   |           | 6 HOURS   |           | 6 HOURS   |           | 4 HOURS   |           | 4 HOURS   |           |                  |
|      |       |                 |                    | FN        | AN        | FN        | AN        | FN        | AN        | FN        | AN        | FN        | AN        | FN        | AN        |                  |
| 42   | III   | 112417105015    | PRADEEBAN.V        | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | pradeeb   | 32               |
| 43   | III   | 112417105017    | PRAVEEN KUMAR.J    | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | praveen   | 32               |
| 44   | III   | 112417105018    | RAMYA.J.C          | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | ramya     | 32               |
| 45   | III   | 112417105019    | SNEHA.M            | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | sneha     | 32               |
| 46   | III   | 112417105020    | SONA.S             | sona      | sona      | sona      | sona      | sona      | sona      | sona      | sona      | sona      | sona      | sona      | sona      | 32               |
| 47   | III   | 112417105021    | SUBATHRA.K. S      | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | subathra  | 32               |
| 48   | III   | 112417105023    | SURESH KUMAR.R     | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | suresh    | 32               |
| 49   | III   | 112417105025    | UMA MAHESHWARI.R   | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | umamahesh | 32               |
| 50   | III   | 112417105026    | VIGNESHWAR.D       | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | 32               |
| 51   | III   | 112417105027    | VIGNESHWARAN. R    | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | vignesh   | 32               |
| 52   | III   | 112417105028    | VIJAYESHWARAN .B   | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | vicky     | 32               |
| 53   | III   | 112417105029    | VIKRAM.S           | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | vikram    | 32               |
| 54   | III   | 112417105301    | AJAY KUMAR.K       | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | ajay      | 32               |
| 55   | III   | 112417105302    | JENIPER.M          | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | jeniper   | 32               |
| 56   | III   | 112417105303    | KAMALAKANN AN.V    | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | kamal     | 32               |
| 57   | III   | 112417105304    | KARTHIRAVAN.D      | karti     | karti     | karti     | karti     | karti     | karti     | karti     | karti     | karti     | karti     | karti     | karti     | 32               |
| 58   | III   | 112417105305    | LAKSHMI PRASAD.D.M | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | laksh     | 32               |
| 59   | III   | 112417105306    | MAGESHWARAN. M     | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | magesh    | 32               |
| 60   | IV    | 112416105001    | AJITH KUMAR.E      | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | ajith     | 32               |
| 61   | IV    | 112416105002    | ANUPRIYA.R         | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | anupriya  | 32               |
| 62   | IV    | 112416105003    | ARAVINDAN.R        | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | aravind   | 32               |
| 63   | IV    | 112416105004    | DEEPA LAKSHMIS     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | deepa     | 32               |
| 64   | IV    | 112416105005    | DINESHKUMAR.C      | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | dinesh    | 32               |



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|------|-------|-----------------|------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|------------------|
|      |       |                 |                  | 6 HOURS  |     | 6 HOURS  |     | 6 HOURS  |     | 6 HOURS  |     | 4 HOURS  |     | 4 HOURS  |     |                  |
|      |       |                 |                  | FN       | AN  | FN       | AN  | FN       | AN  | FN       | AN  | FN       | AN  | FN       | AN  |                  |
| 65   | IV    | 112416105006    | ELAKIYA.E        | R.E      | R.E | R.E      | R.E | R.E      | R.E | R.E      | R.E | R.E      | R.E | R.E      | R.E | 32               |
| 66   | IV    | 112416105007    | GANESAN.R        | R.G      | R.G | R.G      | R.G | R.G      | R.G | R.G      | R.G | R.G      | R.G | R.G      | R.G | 32               |
| 67   | IV    | 112416105008    | HARI KUMAR.K     | R.H      | R.H | R.H      | R.H | R.H      | R.H | R.H      | R.H | R.H      | R.H | R.H      | R.H | 32               |
| 68   | IV    | 112416105009    | INBAA MARLM      | R.I      | R.I | R.I      | R.I | R.I      | R.I | R.I      | R.I | R.I      | R.I | R.I      | R.I | 32               |
| 69   | IV    | 112416105010    | JAGAN.D          | R.J      | R.J | R.J      | R.J | R.J      | R.J | R.J      | R.J | R.J      | R.J | R.J      | R.J | 32               |
| 70   | IV    | 112416105011    | KARTHIKA.K       | R.K      | R.K | R.K      | R.K | R.K      | R.K | R.K      | R.K | R.K      | R.K | R.K      | R.K | 32               |
| 71   | IV    | 112416105012    | LAKSHMI.N        | R.L      | R.L | R.L      | R.L | R.L      | R.L | R.L      | R.L | R.L      | R.L | R.L      | R.L | 32               |
| 72   | IV    | 112416105013    | MOHANA PRIYA.S   | R.M      | R.M | R.M      | R.M | R.M      | R.M | R.M      | R.M | R.M      | R.M | R.M      | R.M | 32               |
| 73   | IV    | 112416105014    | NAVAJOTHIR       | R.N      | R.N | R.N      | R.N | R.N      | R.N | R.N      | R.N | R.N      | R.N | R.N      | R.N | 32               |
| 74   | IV    | 112416105015    | PAVITHRA.A       | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | 32               |
| 75   | IV    | 112416105016    | PRABAVATHI.K     | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | 32               |
| 76   | IV    | 112416105017    | PUNITH KUMAR.R   | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | R.P      | R.P | 32               |
| 77   | IV    | 112416105019    | RENUKA.R         | R.R      | R.R | R.R      | R.R | R.R      | R.R | R.R      | R.R | R.R      | R.R | R.R      | R.R | 32               |
| 78   | IV    | 112416105020    | SAKTHIVEL.T      | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | 32               |
| 79   | IV    | 112416105021    | SARANRAJ.D       | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | 32               |
| 80   | IV    | 112416105022    | SIVAKUMAR.B      | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | R.S      | R.S | 32               |
| 81   | IV    | 112416105023    | VASANTH KUMAR.S  | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | 32               |
| 82   | IV    | 112416105024    | VEL.S            | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | 32               |
| 83   | IV    | 112416105025    | VIJAY.M          | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | R.V      | R.V | 32               |
| 84   | IV    | 112416105301    | ASHOK KUMAR P    | R.A      | R.A | R.A      | R.A | R.A      | R.A | R.A      | R.A | R.A      | R.A | R.A      | R.A | 32               |
| 85   | IV    | 112416105303    | BABU R           | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | 32               |
| 86   | IV    | 112416105304    | BALAJI G         | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | 32               |
| 87   | IV    | 112416105305    | BALAJI O         | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | R.B      | R.B | 32               |



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(A Telugu Minority Institution)

| S.NO | YE AR  | REGISTER NUMBER | NAME OF STUDENTS | 02.03.20     |              | 03.03.20     |              | 04.03.20     |              | 05.03.20     |              | 06.03.20     |              | 07.03.20     |              | TOTAL HOURS (32) |
|------|--------|-----------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
|      |        |                 |                  | 6 HOURS      |              | 6 HOURS      |              | 6 HOURS      |              | 6 HOURS      |              | 4 HOURS      |              | 4 HOURS      |              |                  |
|      |        |                 |                  | FN           | AN           | FN           | AN           | FN           | AN           | FN           | AN           | FN           | AN           | FN           | AN           |                  |
| 88   | IV     | 112416105308    | GAJENDRAN G      | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | Gajendra     | 32               |
| 89   | IV     | 112416105309    | GOKULA KANNAN K  | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | Gokula       | 32               |
| 90   | IV     | 112416105313    | LOKESH.T         | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | 32               |
| 91   | IV     | 112416105314    | LOKESH KUMAR M   | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | Lokesh       | 32               |
| 92   | IV     | 112416105315    | MUNI SEKAR G     | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | Muni         | 32               |
| 93   | IV     | 112416105316    | PRADEEP KUMAR.B  | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | Pradeep      | 32               |
| 94   | IV     | 112416105317    | PRAKASH S        | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | Prakash      | 32               |
| 95   | IV     | 112416105318    | PRAVEEN KANNAN R | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | Praveen      | 32               |
| 96   | IV     | 112416105322    | SARAVANAN K      | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | Saravanan    | 32               |
| 97   | IV     | 112416105324    | SEKAR R B        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | Sekar        | 32               |
| 98   | IV     | 112416105701    | SATHISH KUMAR K  | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | Sathish      | 32               |
| 99   | ME-PED | 112419415001    | AJITH KUMAR R    | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | Ajith        | 32               |
| 100  | ME-PED | 112419415002    | ANANTHI S        | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | Ananthi      | 32               |
| 101  | ME-PED | 112419415003    | NANDHINI M       | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | Nandhini     | 32               |
| 102  | ME-PED | 112419415004    | SRIRANJANI N     | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | Sriranjani   | 32               |
| 103  | ME-PED | 112418415001    | ARCHANA K        | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | Archana      | 32               |
| 104  | ME-PED | 112418415002    | BHARATH M        | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | Bharath      | 32               |
| 105  | ME-PED | 112418415003    | JOTHILAKSHMI     | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | Jothilakshmi | 32               |
| 106  | ME-PED | 112418415004    | MATHIAS RAJ M    | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | Mathias      | 32               |
| 107  | ME-PED | 112418415006    | SUDHA K          | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | Sudha        | 32               |

  
**COORDINATOR**  
(Mrs.S.S. Divya)



  
**HOD / EEE**  
(Mr.M. Namachivayam)  
**PRINCIPAL**  
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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

#### TEST QUESTIONS

1. Which memory storage is widely used in PCs and Embedded Systems?
  - a) EEPROM
  - b) Flash memory
  - c) SRAM
  - d) DRAM**
2. Which activity is concerned with identifying the task at the final embedded systems?
  - a) scheduling
  - b) task-level concurrency management**
  - c) high-level transformation
  - d) compilation
3. Which of the following helps in reducing the energy consumption of the embedded system?
  - a) emulator
  - b) debugger
  - c) simulator
  - d) compilers**
4. Identify the standard software components that can be reused in an embedded system design?
  - a) memory
  - b) application software
  - c) application manager
  - d) operating system**
5. Which of the following offers external chips for memory and peripheral interface circuits?
  - a) Embedded system
  - b) Peripheral system
  - c) Microcontroller
  - d) Microprocessor**
6. Which of the architecture is more complex?
  - a) MC68040



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b) MC68030

c) SPARC

d) 8086

7. Which of the following statements are true for von Neumann architecture?

a) separate bus between the program memory and data memory

b) external bus for program memory and data memory

c) external bus for data memory only

d) **shared bus between the program memory and data memory**

8. Which provides the TCP/IP communication over the Ethernet and FDDI?

a) **pNA+ network manager**

b) PSOS+

c) pSOS+ kernel

d) pSOS+m

9. What is Arduino?

a) Programming language

b) Image editing software

c) **Open-source electronics platform**

d) Text editor

10. What language is the Arduino IDE built on?

a) Java

b) HTML

c) C/C++

d) Python

11. What is the use of the Arduino header file?


a) **It enables the programmer to access all of Arduino's core functionality**

b) It doesn't have any use and can be omitted at any point of time in the code

c) It gives root access to the microcontroller's file system

d) It allows other people to create libraries for the Arduino code



  
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12. Which Arduino Board contains an onboard joystick?
- a) Arduino Nano
  - b) Arduino UNO
  - c) Arduino Esplora**
  - d) Arduino Due
13. What is the full form of EEPROM?
- a) Electrically Encoded Programmable Read Only Memory
  - b) Encrypted Electronic Programmable Read Only Memory
  - c) Electrically Erasable Programmable Read Only Memory**
  - d) Electronic Embedded Programmable Read Only Memory
14. What is the use of the SD.h Library in Arduino?
- a) To communicate with the computer
  - b) To communicate with the internet
  - c) To communicate with the SD Card Module**
  - d) To communicate with another microcontroller
15. What is the use of the Interrupt Service Routine in an Arduino?
- a) To boot up the Arduino
  - b) To exit any code that is running
  - c) To automate functions**
  - d) To make more memory
16. Which of the following processors can perform exponential, logarithmic and trigonometric functions?
- a) 8086
  - b) 8087**
  - c) 8080
  - d) 8088
17. Which of the following processors execute its instruction in a single cycle?
- a) 8086
  - b) 8088
  - c) 8087



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### d) MIPS R2000

18. What is CAM stands for?

- a) content-addressable memory
- b) complex addressable memory
- c) computing addressable memory
- d) concurrently addressable memory

19. Which is the most basic non-volatile memory?

- a) Flash memory
- b) PROM
- c) EPROM

### d) ROM

20. Which of the following has programmable hardware?

- a) Microcontroller
- b) microprocessor
- c) coprocessor
- d) FPGA

**COORDINATOR**

(Mrs.S.S.Divya)

**HOD / EEE**

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19EEEVAC02 - EMBEDDED SYSTEM DESIGN USING ARDUINO

### FEEDBACK FORM

Student Reg. No. & Name: 112416105012 & N. Lakshmi

Sem & Year: 08 & IV

Date: 7.3.2020

Evaluating the following Question

1. This course was interesting

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

2. Was this course useful?

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

3. During the course did you find any technical Difficulties?

a) Strongly Agree    b) Agree    c) Moderate     d) Disagree    e) Strongly Disagree

4. did the instructor delivered the information, you didn't know already

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

5. The Subject matter was presented effectively

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

6. This instructor helped me learn about how the course works in the real world.

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

7. This instructor provided information I can use to be successful in my career.

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree

8. Overall how do you rate the Training Program?

a) Strongly Agree    b) Agree    c) Moderate    d) Disagree    e) Strongly Disagree



*N. Lakshmi*

Student Signature

*[Signature]*

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19EEEVAC02 - EMBEDDED SYSTEM DESIGN USING ARDUINO

### TEST QUESTIONS

Student Reg. No. & Name: 112416105322 & Saravanan.k

Sem & Year: 08 & IV

Date: 07.03.2020

1. Which memory storage is widely used in PCs and Embedded Systems?

- a) EEPROM
- b) Flash memory
- c) SRAM
- d) DRAM

19  
20

2. Which activity is concerned with identifying the task at the final embedded systems?

- a) scheduling
- b) task-level concurrency management
- c) high-level transformation
- d) compilation

3. Which of the following helps in reducing the energy consumption of the embedded system?

- a) emulator
- b) debugger
- c) simulator
- d) compilers

4. Identify the standard software components that can be reused in an embedded system design? a) memory

- b) application software
- c) application manager
- d) operating system

5. Which of the following offers external chips for memory and peripheral interface circuits?

- a) Embedded system
- b) Peripheral system
- c) Microcontroller
- d) Microprocessor



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6. Which of the architecture is more complex?

- a) MC68040
- b) MC68030
- c)  SPARC
- d) 8086

7. Which of the following statements are true for von Neumann architecture?

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- c) pSOS+ kernel
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9. What is Arduino?

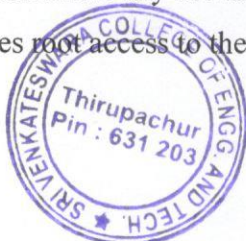
- a) Programming language
- b) Image editing software
- c)  Open-source electronics platform
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- d) It allows other people to create libraries for the Arduino code
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c) 8087

d) MIPS R2000

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### 19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

|                        |                                      |
|------------------------|--------------------------------------|
| Course Code            | 19EEEVAC01                           |
| Name of the Course     | EMBEDDED SYSTEM DESIGN USING ARDUINO |
| Duration of the Course | 32 Hrs                               |
| Academic Year          | 2019-2020                            |
| Period of the Course   | 02.03.2020 to 07.03.2020             |

### STUDENT EVALUATION SHEET

| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS           | ATTENDANCE | MARK |
|------|------|-----------------|----------------------------|------------|------|
| 1    | II   | 112418105001    | ASWIN.E                    | 32         | 85   |
| 2    | II   | 112418105002    | BHARANIDHRAN.M             | 32         | 85   |
| 3    | II   | 112418105003    | BHARATHI C.K               | 32         | 80   |
| 4    | II   | 112418105004    | DHAYANITHI.G               | 32         | 85   |
| 5    | II   | 112418105006    | DINESH.B                   | 32         | 90   |
| 6    | II   | 112418105007    | KARTHICK .D                | 32         | 85   |
| 7    | II   | 112418105008    | MOHAMMED JUNAID<br>AHMED.N | 32         | 85   |
| 8    | II   | 112418105009    | PRASANNA KUMAR.K           | 32         | 85   |
| 9    | II   | 112418105010    | RAKESH.R                   | 32         | 85   |
| 10   | II   | 112418105011    | SHARAN.G                   | 32         | 85   |
| 11   | II   | 112418105012    | TAMILVANAN.D               | 32         | 90   |
| 12   | II   | 112418105013    | VENKATESAN.R               | 32         | 95   |
| 13   | II   | 112418105014    | VIJAYA KUMAR.S             | 32         | 90   |
| 14   | II   | 112418105015    | VINOTHINI.R                | 32         | 90   |
| 15   | II   | 112418105016    | YUVARAJ.N                  | 32         | 85   |
| 16   | II   | 112418105302    | ANBARASAN A                | 32         | 80   |
| 17   | II   | 112418105304    | BALAJI C                   | 32         | 85   |



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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS  | ATTENDANCE | MARK |
|------|------|-----------------|-------------------|------------|------|
| 18   | II   | 112418105305    | BALAKUMARAN S     | 32         | 85   |
| 19   | II   | 112418105306    | DEEPAK D          | 32         | 80   |
| 20   | II   | 112418105308    | JAYASEELAN D      | 32         | 85   |
| 21   | II   | 112418105310    | PERUMAL G         | 32         | 80   |
| 22   | II   | 112418105311    | PRAGADEESHWARAN A | 32         | 85   |
| 23   | II   | 112418105312    | RAMYA S           | 32         | 90   |
| 24   | II   | 112418105313    | SATHYA MOORTHY R  | 32         | 85   |
| 25   | II   | 112418105314    | SUBHAM THAKUR     | 32         | 85   |
| 26   | II   | 112418105315    | SUGUMARAN A       | 32         | 85   |
| 27   | II   | 112418105316    | SUSANTHIKA C      | 82         | 85   |
| 28   | II   | 112418105317    | VASANTH V         | 32         | 80   |
| 29   | II   | 112418105318    | VINOTH KUMAR M    | 32         | 85   |
| 30   | III  | 112417105001    | ANANDHA PRIYA.R   | 32         | 85   |
| 31   | III  | 112417105002    | AKASH.A           | 32         | 80   |
| 32   | III  | 112417105003    | AMMU.E            | 32         | 80   |
| 33   | III  | 112417105004    | ANAND.S           | 32         | 80   |
| 34   | III  | 112417105005    | CHANDRAMOULI.K    | 32         | 80   |
| 35   | III  | 112417105007    | DIVAKAR.K         | 32         | 80   |
| 36   | III  | 112417105008    | GAYATHRI.V        | 32         | 95   |
| 37   | III  | 112417105009    | KIRUBAKARAN.G     | 32         | 85   |
| 38   | III  | 112417105010    | KISHOREKUMAR S    | 32         | 85   |
| 39   | III  | 112417105011    | MONISH.B          | 32         | 90   |
| 40   | III  | 112417105013    | NAVANEETHA HALDER | 32         | 90   |
| 41   | III  | 112417105014    | NAVEENA.P         | 32         | 90   |



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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS   | ATTENDANCE | MARK |
|------|------|-----------------|--------------------|------------|------|
| 42   | III  | 112417105015    | PRADEEBAN.V        | 32         | 80   |
| 43   | III  | 112417105017    | PRAVEEN KUMAR.J    | 32         | 85   |
| 44   | III  | 112417105018    | RAMYA.J.C          | 32         | 95   |
| 45   | III  | 112417105019    | SNEHA.M            | 32         | 80   |
| 46   | III  | 112417105020    | SONA.S             | 32         | 85   |
| 47   | III  | 112417105021    | SUBATHRA.K.S       | 32         | 90   |
| 48   | III  | 112417105023    | SURESH KUMAR.R     | 32         | 80   |
| 49   | III  | 112417105025    | UMA MAHESHWARI.R   | 32         | 85   |
| 50   | III  | 112417105026    | VIGNESHWAR.D       | 32         | 80   |
| 51   | III  | 112417105027    | VIGNESHWARAN.R     | 32         | 85   |
| 52   | III  | 112417105028    | VIJAYESHWARAN.B    | 32         | 85   |
| 53   | III  | 112417105029    | VIKRAM.S           | 32         | 85   |
| 54   | III  | 112417105301    | AJAY KUMAR.K       | 32         | 80   |
| 55   | III  | 112417105302    | JENIPER.M          | 32         | 85   |
| 56   | III  | 112417105303    | KAMALAKKANNAN.V    | 32         | 85   |
| 57   | III  | 112417105304    | KARTHIRAVAN.D      | 32         | 90   |
| 58   | III  | 112417105305    | LAKSHMI PRASAD.D.M | 32         | 90   |
| 59   | III  | 112417105306    | MAGESHWARAN.M      | 32         | 85   |
| 60   | IV   | 112416105001    | AJITH KUMAR.E      | 32         | 85   |
| 61   | IV   | 112416105002    | ANUPRIYA.R         | 32         | 85   |
| 62   | IV   | 112416105003    | ARAVINDAN.R        | 32         | 80   |
| 63   | IV   | 112416105004    | DEEPA LAKSHMI.S    | 32         | 95   |
| 64   | IV   | 112416105005    | DINESHKUMAR.C      | 32         | 80   |
| 65   | IV   | 112416105006    | ELAKIYA.E          | 32         | 95   |



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| S.NO | YEAR | REGISTER NUMBER | NAME OF STUDENTS | ATTENDANCE | MARK |
|------|------|-----------------|------------------|------------|------|
| 66   | IV   | 112416105007    | GANESAN.R        | 32         | 80   |
| 67   | IV   | 112416105008    | HARI KUMAR.K     | 32         | 85   |
| 68   | IV   | 112416105009    | INBAA MARI.M     | 32         | 90   |
| 69   | IV   | 112416105010    | JAGAN.D          | 32         | 85   |
| 70   | IV   | 112416105011    | KARTHIKA.K       | 32         | 90   |
| 71   | IV   | 112416105012    | LAKSHMI.N        | 32         | 95   |
| 72   | IV   | 112416105013    | MOHANA PRIYA.S   | 32         | 90   |
| 73   | IV   | 112416105014    | NAVAJOTHI.R      | 32         | 95   |
| 74   | IV   | 112416105015    | PAVITHRA.A       | 32         | 90   |
| 75   | IV   | 112416105016    | PRABAVATHI.K     | 32         | 85   |
| 76   | IV   | 112416105017    | PUNITH KUMAR.R   | 32         | 80   |
| 77   | IV   | 112416105019    | RENUKA.R         | 32         | 80   |
| 78   | IV   | 112416105020    | SAKTHIVEL.T      | 32         | 95   |
| 79   | IV   | 112416105021    | SARANRAJ.D       | 32         | 80   |
| 80   | IV   | 112416105022    | SIVAKUMAR.B      | 32         | 80   |
| 81   | IV   | 112416105023    | VASANTH KUMAR.S  | 32         | 80   |
| 82   | IV   | 112416105024    | VEL.S            | 32         | 80   |
| 83   | IV   | 112416105025    | VIJAY.M          | 32         | 85   |
| 84   | IV   | 112416105301    | ASHOK KUMAR P    | 32         | 85   |
| 85   | IV   | 112416105303    | BABU R           | 32         | 80   |
| 86   | IV   | 112416105304    | BALAJI G         | 32         | 80   |
| 87   | IV   | 112416105305    | BALAJI O         | 32         | 85   |
| 88   | IV   | 112416105308    | GAJENDRAN G      | 32         | 90   |
| 89   | IV   | 112416105309    | GOKULA KANNAN K  | 32         | 80   |



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| S.NO | YEAR   | REGISTER NUMBER | NAME OF STUDENTS | ATTENDANCE | MARK |
|------|--------|-----------------|------------------|------------|------|
| 90   | IV     | 112416105313    | LOKESH.T         | 32         | 80   |
| 91   | IV     | 112416105314    | LOKESH KUMAR M   | 32         | 85   |
| 92   | IV     | 112416105315    | MUNI SEKAR G     | 32         | 85   |
| 93   | IV     | 112416105316    | PRADEEP KUMAR.B  | 32         | 85   |
| 94   | IV     | 112416105317    | PRAKASH S        | 32         | 85   |
| 95   | IV     | 112416105318    | PRAVEEN KANNAN R | 32         | 85   |
| 96   | IV     | 112416105322    | SARAVANAN K      | 32         | 95   |
| 97   | IV     | 112416105324    | SEKAR R B        | 32         | 80   |
| 98   | IV     | 112416105701    | SATHISH KUMAR K  | 32         | 80   |
| 99   | ME-PED | 112419415001    | AJITH KUMAR R    | 32         | 80   |
| 100  | ME-PED | 112419415002    | ANANTHI S        | 32         | 85   |
| 101  | ME-PED | 112419415003    | NANDHINI M       | 32         | 85   |
| 102  | ME-PED | 112419415004    | SRIRANJANI N     | 32         | 90   |
| 103  | ME-PED | 112418415001    | ARCHANA K        | 32         | 90   |
| 104  | ME-PED | 112418415002    | BHARATH M        | 32         | 85   |
| 105  | ME-PED | 112418415003    | JOTHILAKSHMI     | 32         | 85   |
| 106  | ME-PED | 112418415004    | MATHIAS RAJ M    | 32         | 85   |
| 107  | ME-PED | 112418415006    | SUDHA K          | 32         | 85   |

  
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(Mrs.S.S.Divya)



  
HOD / EEE  
(Mr.M.Namachivayam)

  
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CERTIFICATE OF PARTICIPATION

This is to certify that ~~M/Ms~~ **VINDHINI R (112418105015)**..... UG/PG

Department of Electrical and Electronics Engineering has successfully completed

Value Added Course titled 'EMBEDDED SYSTEM DESIGN USING

ARDUINO ' held from 02.03.2020 to 07.03.2020

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Department of Electrical and Electronics Engineering has successfully completed

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This is to certify that ~~M/Ms~~ **SONA.S.(112417105020)**..... UG/~~PG~~

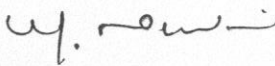
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This is to certify that ~~Mr/Ms~~ **SRIRANJANI.N...** (112419415004) **UG/PG**

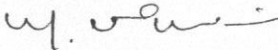
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This is to certify that Mr/~~Ms~~ **ASWIN.E(11241810501)**..... UG/~~PG~~

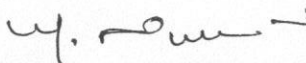
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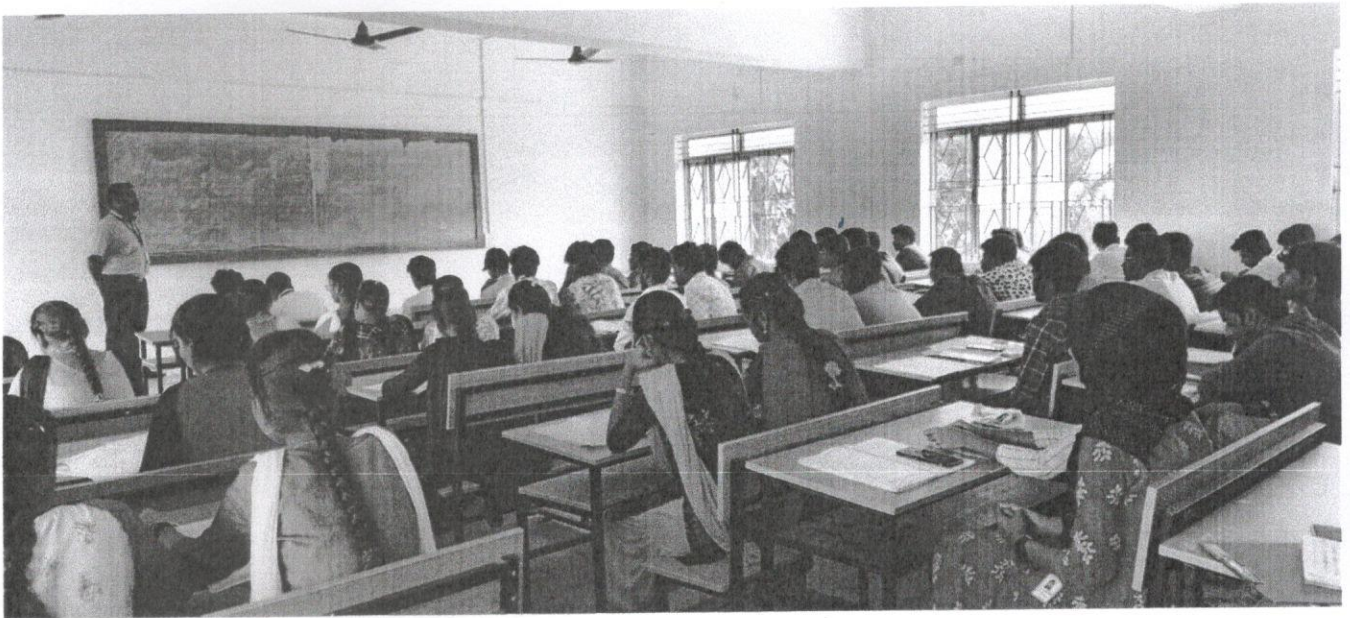


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Value added Course on “EMBEDDED SYSTEM DESIGN USING ARDUINO” Handled by  
Mr.M. Namachivayam, Asst.Prof, SVCET and Mr. P. Justin Raj, Asst.Prof, SVCET



  
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