



# 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**”

#### **ASSESSMENT 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,  
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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

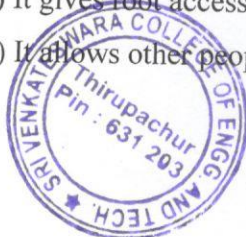
11. What is the use of the Arduino header file?


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**

(Mr.M.Namachivayam)



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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
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19  
20

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6. Which of the architecture is more complex?

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

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9. What is Arduino?

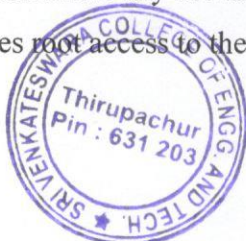
- a) Programming language
- b) Image editing software
- c)  Open-source electronics platform
- d) Text editor


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- d) It allows other people to create libraries for the Arduino code
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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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|------|------|-----------------|------------------|------------|------|
| 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   |
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| 89   | IV   | 112416105309    | GOKULA KANNAN K  | 32         | 80   |



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|------|--------|-----------------|------------------|------------|------|
| 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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Thirupachur - 631203, Thiruvallur TK , & DT  
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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

CO-ORDINATOR



HOD / EEE

**PRINCIPAL**  
Sri Venkateswara College of  
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PRINCIPAL



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms **S.U.DHA..K.(112418415006)**.....UG/PG

Department of Electrical and Electronics Engineering has successfully completed

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ARDUINO ' held from 02.03.2020 to 07.03.2020

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

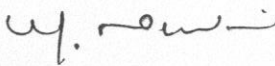
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## CERTIFICATE OF PARTICIPATION

This is to certify that **Mr/Ms DEEPA LAKSHMI (112416105004).....** UG/PG


Department of Electrical and Electronics Engineering has successfully completed

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This is to certify that Mr/Ms **SARAVANAN.K.(112A16105322.)**..... UG/PG


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## CERTIFICATE OF PARTICIPATION

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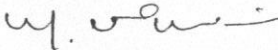
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This is to certify that Mr/~~Ms~~ **ASWIN.E (11241810501)**..... UG/~~PG~~

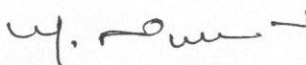
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