21ECEVAC01 - APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM

EVENT REPORT

Name of the Course: APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM

Name of the Instructor: 1. Mr.V. Rajesh Kumar, Asst. Prof, SVCET
2. Mrs.Angelin Silvia, Asst Prof, SVCET

Year and Branch: II,III,IV,& ME-VLSI-ELECTRONICS AND COMMUNICATION ENGINEERING

Duration of Course: 35 Hrs (09.08.2021 to 14.08.2021)

SUMMARY OF THE EVENT:

The Course was inaugurated on **09.08.2021** 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 **14.08.2021** by 2.30 pm the course was completed successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained Knowledge on **"APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM"**

ASSESMENT MODE:

No of Students Enrolled: 179

Scheme of Exam: Offline

No of Students appeared: 179

No of Students Passed:179

Date of Exam: **14.08.2021**

OUTCOME:

After the completion of the course the students will be able to understand the basic components of Embedded system, able to create structure and Arduino program, they can able to create embedded system using Arduino with different sensors and Actuators

COORDINATOR

HOD / ECE

(Mr. E. Murali)

(Mr. V. Rajeshkumar)

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Thirupachur, Thiruvallur - 631 203

21ECEVAC01 - APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM

TEST QUESTIONS

1. What is Arduino?

a) Programming language

b) Image editing software

c) Open-source electronics platform

d) Text editor

2. How many types of Arduino do we have?

a) 4

b) 8

c) 12

d) 16

3. What language is a typical Arduino code based on?

a) Assembly Code

b) Python

c) Java

d) C/C++

4. How many analog pins are used in Arduino Mega board?

a) 12

b) 16

c) 8

d) 14

5. Arduino IDE consists of 2 functions. What are they?

a) Loop() and build() and setup()

b) Build() and loop() c) Setup() and build()

d) Setup() and loop()

6. Arduino Codes are referred to as..........in the Arduino IDE.

a) sketches

b) drawings

c) links

d) notes

7. What is the default bootloader of the Arduino UNO?

a) AIR-boot

b) GAG

c) Optibootbootloader

d) Bare box

8. What is the use of the Arduino.h 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 on creating libraries for the Arduino code

9. What is the use of the Vin pin present on some Arduino Boards?

a) To ground the Arduino Board

b) To power the Arduino Board

c) To provide a 5V output

d) Is used for plugging in 3V supply

10. What is the correct execution process of an Arduino code?

a) Editor->Preprocessor->Compiler

b) Preprocessor->Editor->Compiler

c) Compiler->Preprocessor->Editor

d) Editor->Compiler->Preprocessor

11. What is the microcontroller used in Arduino UNO?

a) ATmega32114

b) AT91SAM3x8E

c) ATmega2560

d) ATmega328p

12. Which board is the first to use a microcontroller within the build USB?

a) RedBoard

b) Leonardo

c) LilyPad

d) UNO

13. Which Arduino Board contains an onboard joystick?

a) Arduino Nano

b) Arduino UNO

c) Arduino Esplora

d) Arduino Due

14. What is the function of the IOREF pin on the Arduino UNO?

a) To take input voltage and set it as a reference for all GPIO operations

b) To provide a constant 12V DC supply

c) To provide ground

d) To provide the voltage corresponding to the standard GPIO working voltage of the board

15. Which software is used to upload the Arduino Sketches to the board?

a) avrgcc

b) g++

c) cpython for windows

d) avrdude

16. What is the use for the 2 serial pins on the Arduino Diecimila?

a) To send PWM signals

b) To send and receive Serial TTL signals

c) To send and receive GPIO digital signals

d) To receive analog signals

17. What is the operating voltage range of Atmega328?

a) 1.9V to 5V

b) 1.8V to 5.5V

c) 1.IV to 5V

d) 12V to 9V

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18. Is the Arduino code an Object-Oriented programming language or a Procedural programming language?

a) The Arduino Code follows the Top-Down Procedural ideology

b) The Arduino Code follows a custom Procedural Ideology

c) The Arduino Code follows the Object-Oriented ideology

d) The Arduino Code follows the Bottom-Up Procedural ideology

19. What is the difference between an IDE and a compiler?

a) The compiler executes the code while the IDE gives a graphical environment for writing the code

b) The compiler links the code to the respective files and the IDE takes it from there

c) The compiler and the IDE are the same thing

d) The IDE executes the code while the compiler gives a graphical environment for writing the code

20. Where does the Arduino IDE search if it needs to find out the Name of a type of Arduino Board?

a) Arduino.h

b) build.txt

c) boards.txt

d) build.core

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21ECEVAC01 - APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM

TEST QUESTION

Student Reg. No.& Name: 112420106305 2 Arun kumar·A

Sem & Year: 3rd & II year

Date: 14·08·2021

$\frac{18}{20}$

1. What is Arduino?

a) Programming language

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Course Code	21ECEVAC01
Name of the Course	APPLICATION OF ARDUINO IN HOME AUTOMATION SYSTEM
Duration of the Course	35 HOURS
Academic Year	2021-22
Period of the Course	09.08.2021-14.08.2021

STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENTANCE	MARKS
1	II	112420106001	ARUT SELVI.J	35	90
2	II	112420106002	DEEPIKA.S	35	90
3	II	112420106003	ELAVARASI.A	35	90
4	II	112420106004	ISWARYA.S	35	95
5	II	112420106005	PARKAVI.J	35	95
6	II	112420106006	POORNA CHANDRA.M	35	85
7	II	112420106007	PRADEESH S R	35	85
8	II	112420106008	PUNNIYAKODI.R	35	90
9	II	112420106009	SATHIYA PRIYA K.S	35	80
10	II	112420106010	TAMILARASI.M	35	80
11	II	112420106011	THEJESHWAR B.B	35	80
12	II	112420106301	AJITHKUMAR A	35	80
13	II	112420106302	AJITHRAJ R	35	80
	II	112420106303	AKASH R	35	80
		112420106305	ARUN KUMAR A	35	90

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENTANCE	MARKS
16	II	112420106306	ARUN KUMAR R	35	90
17	II	112420106307	ASHOK KUMAR A	35	90
18	II	112420106308	BALAJI M	35	90
19	II	112420106309	BHARATHI M	35	95
20	II	112420106310	BOOMIRAJAN S	35	80
21	II	112420106311	CHENGUTTUVAN M	35	80
22	II	112420106312	CHIRANJEEVI S	35	80
23	II	112420106313	DEEPAK J	35	80
24	II	112420106314	DHANACHEZHIYAN M	35	80
25	II	112420106315	DHANUSH M	35	80
26	II	112420106316	DHANUSH VEL V	35	80
27	II	112420106317	DHARANIDHARAN V	35	85
28	II	112420106318	DIVAKAR R	35	85
29	II	112420106319	GANESAN M	35	85
30	II	112420106320	HARESH D	35	85
31	II	112420106321	HARIBABU M	35	95
32	II	112420106322	HARIHARAN K L	35	95
33	II	112420106323	HARI HARAN S	35	95
34	II	112420106324	HARIKARAN A	35	95
35	II	112420106325	JAYAKANTHAN K	35	95
36	II	112420106326	JAYAKUMAR T	35	80
37	II	112420106327	KAVIN V	35	80
38	II	112420106328	KEERTHANA D	35	80

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39	II	112420106329	KUMAR B	35	90
40	II	112420106330	LAKSHMIPRIYA A S	35	90
41	II	112420106331	MAGESH A	35	90
42	II	112420106332	MAGESH M	35	90
43	II	112420106333	MANIKANDAN J	35	80
44	II	112420106334	MOHAN G	35	80
45	II	112420106335	MOREISHWAR J	35	80
46	II	112420106336	NAVEEN KUMAR G	35	85
47	II	112420106337	NAVEEN KUMAR G N	35	85
48	II	112420106338	NEELAKANDAN K	35	85
49	II	112420106340	PARTHASARATHY J	35	85
50	II	112420106341	PARTHIBAN D	35	85
51	II	112420106342	PRABU V	35	85
52	II	112420106343	PRAVEEN KUMAR J	35	85
53	II	112420106344	PRAVEEN KUMAR M	35	90
54	II	112420106346	RAHUL R M	35	90
55	II	112420106347	RAJASEKAR L	35	80
56	II	112420106348	RAJENDRAN S	35	80
57	II	112420106349	RAJENDRA PRASAD D	35	95
58	II	112420106350	RAVICHANDRAN R	35	95
59	II	112420106351	RAVIKUMAR R	35	95
60	II	112420106352	ROHITH M	35	95
61	II	112420106353	RUTHRAN C	35	95
62	II	112420106354	SAMIVEL S	35	95

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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	ATTENTANCE	MARKS
63	II	112420106356	SANDHIYA S	35	80
64	II	112420106358	SANJAY S	35	80
65	II	112420106359	SARAN Y	35	80
66	II	112420106360	SARATHKUMAR A	35	80
67	II	112420106361	SARAVANAN V	35	80
68	II	112420106362	SATHISHKUMAR R	35	80
69	II	112420106363	SELVA KUMAR M	35	80
70	II	112420106365	SHALINI U	35	80
71	II	112420106366	SIVAKANTHAN M	35	80
72	II	112420106368	SUBASH M	35	95
73	II	112420106371	SURIYAMOORTHY N	35	95
74	II	112420106372	SURYA K	35	95
75	II	112420106373	TAMIL SELVAN P	35	90
76	II	112420106374	THENMOZHI K	35	90
77	II	112420106375	VARADHARAJ S	35	90
78	II	112420106377	VASANTHAKUMAR S	35	85
79	II	112420106378	VASANTHKUMAR A	35	85
80	II	112420106379	VENKATESAN A	35	85
81	II	112420106380	VIJAY J	35	85
82	II	112420106381	VINITH P	35	85
83	II	112420106382	VISHVA C	35	80
84	II	112420106383	VISITHRA V	35	80
85	II	112420106384	YUVARAJ M	35	80
86	II	112420106385	YUVARAJ V	35	80

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87	II	112420106386	ABDUL KAYYUM S	35	95
88	II	112420106387	SURESHBABU C	35	95
89	II	112420106388	SATHYA MURTHY K	35	95
90	II	112420106389	UDHAYA KUMAR S	35	95
91	III	112419106001	ABISHIKTHA A	35	80
92	III	112419106002	DHANUSH M	35	80
93	III	112419106003	DIVYA A	35	80
94	III	112419106005	ISSAC V	35	80
95	III	112419106006	JAYASURYA A	35	80
96	III	112419106007	LOKESHWARI S	35	80
97	III	112419106008	MAGESH KUMAR E	35	90
98	III	112419106009	MEGALA R	35	90
99	III	112419106010	NIVAS K	35	85
100	III	112419106012	PRITHIVRAJ K	35	85
101	III	112419106013	RAJKUMAR M	35	85
102	III	112419106014	RAKESH S	35	80
103	III	112419106015	RATHIKA R	35	80
104	III	112419106016	RITHIKSHA B	35	85
105	III	112419106017	SARITHA S	35	85
106	III	112419106018	SELVA KUMAR C G	35	90
107	III	112419106019	SHALINI M	35	90
108	III	112419106020	SOFIYA R	35	90
109	III	112419106021	SULOCHANA V	35	90
110	III	112419106022	SURYA I	35	90

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111	III	112419106023	VASIGARAN S	35	80
112	III	112419106024	VEERASAMY R	35	80
113	III	112419106025	VIJAY S	35	80
114	III	112419106301	C B MONISHANKARI	35	90
115	III	112419106303	HARIHARAN.V	35	90
116	III	112419106304	KARTHICK.S	35	90
117	III	112419106305	NIRANJAN.B	35	90
118	III	112419106306	PRATHNASREE.S	35	90
119	III	112419106307	RAJESHKANNA.V	35	90
120	III	112419106308	SARAVANAN.S	35	90
121	III	112419106309	SHEEBHA.R	35	95
122	III	112419106310	SURYA.C	35	95
123	IV	112418106001	BABY SHAKILA M	35	80
124	IV	112418106002	BERSHIN MANO M M	35	80
125	IV	112418106003	BHARATH S	35	80
126	IV	112418106004	BHARATHKUMAR J	35	85
127	IV	112418106005	BHUVANA S	35	85
128	IV	112418106006	BHUVANESH B	35	85
129	IV	112418106007	DEEPA M	35	85
130	IV	112418106008	DEEPAK RAJ P	35	85
131	IV	112418106009	DINESH K	35	90
132	IV	112418106011	FRANCIS SAVIOR J	35	80
	IV	112418106012	GOKUL M	35	80
	IV	112418106013	HARISH R	35	80

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135	IV	112418106014	JANARTHANAM P B	35	80
136	IV	112418106016	KAVIYA L	35	80
137	IV	112418106019	MOHAN J	35	80
138	IV	112418106020	MOHAN P	35	80
139	IV	112418106021	NARMATHA R	35	80
140	IV	112418106022	NIVETHA H	35	80
141	IV	112418106023	PREETHI N	35	80
142	IV	112418106024	PRIYA K	35	90
143	IV	112418106025	RAGAVENDRAN S	35	90
144	IV	112418106026	RAMYA S	35	90
145	IV	112418106028	SINDHU S	35	85
146	IV	112418106029	SNEHA V	35	80
147	IV	112418106030	SUGASHINI S	35	80
148	IV	112418106032	VIJAYALAKSHMI G	35	85
149	IV	112418106033	VISHWA V	35	85
150	IV	112418106301	BARATH E	35	85
151	IV	112418106302	LAKSHMANAN D	35	85
152	IV	112418106303	SERAN SACHIN G	35	85
153	ME-VLSI-I	112421419001	JANANI G	35	90
154	ME-VLSI-I	112421419002	KANIMOZHI J	35	90
155	ME-VLSI-I	112421419003	MALATHI M	35	90
156	ME-VLSI-I	112421419004	NARMATHA S	35	95
	ME-VLSI-I	112421419005	PREETHA A	35	95
	ME-VLSI-I	112421419006	PRIYADHARSHINI R	35	95

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159	ME-VLSI-I	112421419007	PUNITHKUMAR M	35	80
160	ME-VLSI-I	112421419008	SANTHOSH KUMAR S	35	80
161	ME-VLSI-I	112421419009	SARANYA R	35	80
162	ME-VLSI-I	112421419010	SATHYARAJ R	35	95
163	ME-VLSI-I	112421419011	SENTHAMIZH B T S	35	95
164	ME-VLSI-I	112421419012	SONIYA G	35	95
165	ME-VLSI-I	112421419013	SREE HARITHA R	35	95
166	ME-VLSI-I	112421419014	SUBASRI R	35	80
167	ME-VLSI-I	112421419015	SUMAN M	35	80
168	ME-VLSI-I	112421419016	SUSMITHA R	35	80
169	ME-VLSI-II	112421419017	VAIRAMUTHU G	35	90
170	ME-VLSI-II	112420419001	ANUSHAYA DEVI K	35	90
171	ME-VLSI-II	112420419002	ARUNTHADHI G	35	95
172	ME-VLSI-II	112420419003	ATCHAYA DEVI	35	95
173	ME-VLSI-II	112420419004	GEETHA D	35	95
174	ME-VLSI-II	112420419005	HAZIFA SHAFREEN S	35	80
175	ME-VLSI-II	112420419006	KALAIVANI S	35	80
176	ME-VLSI-II	112420419007	MANIMEGALAI G	35	80
177	ME-VLSI-II	112420419008	MUJEEBA AFREEN M	35	80
178	ME-VLSI-II	112420419009	RAGOTHAMAN	35	80
179	ME-VLSI-II	112420419010	SHARATHA	35	80

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This is to certify that Mr/Ms ....GEETHA. D (112420419004).......... UG/PG

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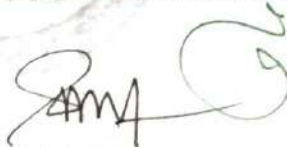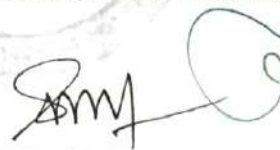APPROVED by AICTE, New Delhi and Affiliated to Anna University , Chennai

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This is to certify that Mr/Ms ISWARYA.S.(112420106004)...... UG/PG

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