

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

No of Students appeared: 107

Date of Exam: 07.03.2020

Scheme of Exam: Offline

No of Students Passed: 107

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)

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Engineering and Rechnology, Inirupachur, Thiruvallur - 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

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.

HOD / EEE

(Mr.M. Namachivayam)

Thanking You

Engineering and Technology, Thirupachur, Thiruvallur - 631 203

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)

Thirupachur 631 203



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THIRUPACHUR - 631203, THIRUVALLUR TK , & DT

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

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

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Engineering and Technology,
Thirupachur, Thiruvallur - 631 203

Dr.J. Venkatesh

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RESOURCE PERSON PROFILE

Resource person:1

Name

Mr.M. Namachivayam

Designation

Assistant Professor

Department

Organization

EEE

Phone Number

SVCET

Email.ID

9940269316

namchu30@gmail.com

Qualification

ME -Power Systems Engineering

Experience

7 years

Resource person:2

Name

Mr. P.Justin Raj

Designation

Assistant Professor

Department

Organization

EEE

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)

1/100

HOD / EEE

PRINCIPAL (Mr.M.Namachivayam)



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19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

COURSE SCHEDULE

	6 Days T	raining Schedule – EMBEDDED SYSTEM	DESIGN USING ARDUINO
Day & Date	Session & Time	Speaker Name	Session Topics
D 1	8.30 am to 10.30am	Mr.M. Namachivayam, Asst.Prof, SVCET	Embedded System design
Day 1 &	10.45 am to 12.45 pm	Mr, P Justin Raj, Asst Prof, SVCET	Introduction to embedded systems
02.03.2020	1.30 pm to 3.30pm	Mr.M. Namachivayam, Asst.Prof, SVCET	Examples of real time embedded systems
	8.30 am to 10.30am	Mr, P Justin Raj, Asst Prof, SVCET	Microcontroller Architectures (CISC, RISC, ARISC).
Day 2 &	10.45 am to 12.45 pm	Mr.M. Namachivayam, Asst.Prof, SVCET	Internal Resources & Hardware Chips in Detail
03.03.2020	1.30 pm to 3.30pm	Mr, P Justin Raj, Asst Prof, SVCET	History of AVR Microcontrollers & Features. Memory Architectures (RAM/ROM).
Day 3	8.30 am to 10.30am	Mr.M. Namachivayam, Asst.Prof, SVCET	Introduction to ARDUINO Memory
% 04.03.2020	10.45 am to 12.45 pm	Mr, P Justin Raj, Asst Prof, SVCET	Programming in Embedded-C,
04.03.2020	1.30 pm to 3.30pm	Mr.M. Namachivayam, Asst.Prof, SVCET	Concepts of C language
Dov. 4	8.30 am to 10.30am	Mr, P Justin Raj, Asst Prof, SVCET	General Hardware Interfacings
Day 4 & 05.03.2020	10.45 am to 12.45 pm	Mr.M. Namachivayam, Asst.Prof, SVCET	The basic sensors
05.05.2020	1.30 pm to 3.30pm	Mr, P Justin Raj, Asst Prof, SVCET	Actuators using Arduino Applications
Day 5	8.30 am to 10.30am	Mr.M. Namachivayam, Asst.Prof, SVCET	Reading various sensor data on serial monitor and LCD Display.
06.03.2020	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) RA COL

HOD/EEE

HOD / EEE (Mr.M. Namachivayam)

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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	NAMEOF STUDENTS	SIGNATURE
1	II	112418105001	ASWIN.E	Skih.F
2	II	112418105002	BHARANIDHRAN.M	Bharandhan
3	II	112418105003	BHARATHI C.K	Bharotto
4	II	112418105004	DHAYANITHI.G	Dares
5	II	112418105006	DINESH.B	Sires R
6	II	112418105007	KARTHICK .D	Le an Lok
7	II	112418105008	MOHAMMED JUNAID AHMED.N	Mohamph
8	II	112418105009	PRASANNA KUMAR.K	Prayania
9	II	112418105010	RAKESH.R	Delet
10	II	112418105011	SHARAN.G	Thosan. G
11	II	112418105012	TAMILVANAN.D	Tmilrancord
12	II	112418105013	VENKATESAN.R	Verkateran R
13	II	112418105014	VIJAYA KUMAR.S	DETALL MARLS
14	II	112418105015	VINOTHINI.R	Prof
CONTECT	II	112418105016	YUVARAJ.N	ght
upl6	II II	112418105302	ANBARASAN A	makarasa



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II	112418105304	BALAJI C	()
**			Delay
TT	112418105305	BALAKUMARAN S	Balakunaran
II	112418105306	DEEPAK D	rechot
II	112418105308	JAYASEELAN D	Tavasaan
II	112418105310	PERUMAL G	Perunal G
II	112418105311	PRAGADEESHWARAN A	Gran wann.
II	112418105312	RAMYA S	Danya S
II	112418105313	SATHYA MOORTHY R	Satt gu mangy.
II	112418105314	SUBHAM THAKUR	Subham Thakez
II	112418105315	SUGUMARAN A	Subiunaxan, A
II	112418105316	SUSANTHIKA C	Series
II	112418105317	VASANTH V	Vasak
II	112418105318	VINOTH KUMAR M	Vinothkunger. M
III	112417105001	ANANDHA PRIYA.R	Alvy Py
III	112417105002	AKASH.A	Mas
III	112417105003	AMMU.E	Ammu.E
III	112417105004	ANAND.S	2 Saul
III	112417105005	CHANDRAMOULI.K	Chandranoulik
III	112417105007	DIVAKAR.K	DIVAKAR
III	112417105008	GAYATHRI.V	V. Gayathai
III	112417105009	KIRUBAKARAN.G	Kerrhoust
III	112417105010	KISHOREKUMAR S	8. Kestorekungs
III	112417105011	MONISH.B	Mongs
			Nammy amy
	II II II II II II III III III III III	II 112418105310 II 112418105311 II 112418105312 II 112418105313 II 112418105314 II 112418105315 II 112418105316 II 112418105317 II 112418105317 III 112417105001 III 112417105002 III 112417105003 III 112417105004 III 112417105005 III 112417105007 III 112417105008 III 112417105009 III 112417105010 III 112417105011 III 112417105011	II



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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	SIGNATURE
41	III	112417105014	NAVEENA.P	Navean A.P
42	III	112417105015	PRADEEBAN.V	Pradupan. N
43	III	112417105017	PRAVEEN KUMAR.J	Peraveen Kinnar
44	III	112417105018	RAMYA.J.C	Rya & J.C
45	III	112417105019	SNEHA.M	Sneha. M
46	III	112417105020	SONA.S	Sona &
47	III	112417105021	SUBATHRA.K.S	Subethra K.8
48	III	112417105023	SURESH KUMAR.R	JOYEN Kima Y. R
49	III	112417105025	UMA MAHESHWARI.R	Chai Mart
50	III	112417105026	VIGNESHWAR.D	Vingueshum. D.
51	III	112417105027	VIGNESHWARAN.R	Vigneshwarer
52	III	112417105028	VIJAYESHWARAN.B	Wayceline
53	III	112417105029	VIKRAM.S	Vikoram . S
54	III	112417105301	AJAY KUMAR.K	AIAY KUMA
55	III	112417105302	JENIPER.M	Jenipeon.M
56	III	112417105303	KAMALAKKANNAN.V	Kamalalkannon
57	III	112417105304	KARTHIRAVAN.D	Ranhinavani
58	III	112417105305	LAKSHMI PRASAD.D.M	Land his prouson
59	III	112417105306	MAGESHWARAN.M	Magleshera
60	· IV	112416105001	AJITH KUMAR.E	Aittakumer. E
61	IV	112416105002	ANUPRIYA.R	ANUPTUYA. R
62	IV	112416105003	ARAVINDAN.R	Leweindan. R
63	RHYOLLE	112416105004	DEEPA LAKSHMLS	Makini S.
64	THIVUDACE Pin: 631 2	112416105005	DINESHKUMAR.C	Dineshkunar-c



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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	SIGNATURE
65	IV	112416105006	ELAKIYA.E	E. Elokife
66	IV	112416105007	GANESAN.R	GIANOUN
67	IV	112416105008	HARI KUMAR.K	Hari Kerman
68	IV	112416105009	INBAA MARI.M	Rutwers
69	IV	112416105010	JAGAN.D	Dogo
70	IV	112416105011	KARTHIKA.K	Kanke t
71	IV	112416105012	LAKSHMI.N	laster = W
72	IV	112416105013	MOHANA PRIYA.S	S. Hohanding
73	IV	112416105014	NAVAJOTHI.R	Navorant
74	IV	112416105015	PAVITHRA.A	A. Parthe
75	IV	112416105016	PRABAVATHI.K	DRAVERON
76	IV	112416105017	PUNITH KUMAR.R	Punithumay R
77	IV	112416105019	RENUKA.R	00
78	IV	112416105020	SAKTHIVEL.T	Sprakut
79	IV	112416105021	SARANRAJ.D	D & marie
80	IV	112416105022	SIVAKUMAR.B	8 (25 M) >
81	IV	112416105023	VASANTH KUMAR.S	Down wing
82	IV	112416105024	VEL.S	S. Vel
83	IV	112416105025	VIJAY.M	MINTO
84	. IV	112416105301	ASHOK KUMAR P	A.P. Out 7
85	IV	112416105303	BABU R	D. R. R.
86	IV	112416105304	BALAJI G	G. Bales
87	COLVE	112416105305	BALAJI O	Balers .0
SE TH	IV	12416105308	GAJENDRAN G	G. Benierden
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S.NO	YEAR	REGISTER NUMBER	NAMEOF STUDENTS	SIGNATURE
89	IV	112416105309	GOKULA KANNAN K	K. Courtant
90	IV	112416105313	LOKESH.T	T. Lokesh
91	IV	112416105314	LOKESH KUMAR M	Jones.
92	IV	112416105315	MUNI SEKAR G	Muni. G.
93	IV	112416105316	PRADEEP KUMAR.B	& radey
94	IV	112416105317	PRAKASH S	Bolle S
95	IV	112416105318	PRAVEEN KANNAN R	Praveer.
96	IV	112416105322	SARAVANAN K	Sanen. 4.
97	IV	112416105324	SEKAR R B	Sekar R.B
98	IV	112416105701	SATHISH KUMAR K	Satt. k
99	ME- PED	112419415001	AJITH KUMAR R	15th Kowar
100	ME- PED	112419415002	ANANTHI S	Dreath -S
101	ME- PED	112419415003	NANDHINI M	Nandhini
102	ME- PED	112419415004	SRIRANJANI N	SriRanjania
103	ME- PED	112418415001	ARCHANA K	Aschanak
104	ME- PED	112418415002	BHARATH M	By Ranth.
105	ME- PED	112418415003	JOTHILAKSHMI	Tohilakihn
106	ME- PED	112418415004	MATHIAS RAJ M	Westin Ro
107	ME	112418415006	SUDHA K	Sudla

Pin: 631 203

(Mrs.S.S. Divya)

4.20m -

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

ATTENDANCE

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S.NO	YE AR	REGISTER NUMBER	NAMEOF STUDENTS	6 HC	OURS	6 HC	OURS	6 HC	OURS	6 HC	OURS	4 H	OURS	4 HC	OURS	TOTAL HOURS
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1	II	112418105001	ASWIN.E	E.An	E. An	regh	FA	r As	The Ac	r=. 1.	EA	LF. A	F.An	F.A	F.d.	32
2	II	112418105002	BHARANIDHRAN. M	Bhet	Bhot	Ben	Blend	Blood	Blot	RIM	Rhed	Bhut	Bhat	Bhot	3 hot	32
3	II	112418105003	BHARATHI C.K	Bh	ch	Bh	Bh	Zh	Rh	zh	Rh	nh	ph	nh	nh	32
4	II	112418105004	DHAYANITHI.G	Bull. 61	Rela	Buf G	Pulo	ala	Pola	Do	Alo	2 19	Ql.G	0/81	0/8	32
5	II	112418105006	DINESH.B	On	Do	On	0~	Du	On-	0~	0~	0~	0~	Dow	Du	32
6	II	112418105007	KARTHICK .D	·Kon	pr	Km	Kn	Kn	m	M	M	kn	Kn	Kr	1000	32
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8	П	112418105009	PRASANNA KUMAR.K	4-BY	Y NY	K. Py	1. Ple	12.06	FK.PK	V.PK	K.Pk	12.14	K. Ph	1	R.pls	32
9	II	112418105010	RAKESH.R	pro	Ru	a	Pul	and	Pour	Par	por	Pur	Mg	Ri	Ru	32
10	II	112418105011	SHARAN.G	Cr. O	er.&	ord	6.8	ord	Cris	Told	C1 &	ma	Cake.	Code	Col	32
11	II	112418105012	TAMILVANAN.D	famil	Jarri				wil.	toril	Jant	knop	family	lino	tuos	132
12	II	112418105013	VENKATESAN.R	p. Jun	12. Nu	pur	p.v.	p.ver	2.00	p.lus	prin	p.w	nyur	p.w	nw	32
13	II	112418105014	VIJAYA KUMAR.S	wh	When	MAR	We	We	NK.	We	VA	Jk.	VA	WE	Vk	32
14	II	112418105015	VINOTHINI.R	n. jui	a pir	مر کن	p Jr	a wi	P.Vi	phi	p.Nº	P.W	R.W	riv	b he	32
15	II	112418105016	YUVARAJ.N	James &	fraits	jung	Grand	gwest	gung	young	gweng	July	Any	gung	And.	87_
16	II	112418105302	ANBARASAN A	who	nh	orlow	onla	ah	arro	andr	orb	andr	anto	andr	out	32
17	П	112418105304	ВАГАЛ С	BIL	24	BD	BU	Bh	BL	130	Be	Bu	BL	Bl	B	82
18	П	12418105305	BALAKUMARAN	Childre	Q della	Bulch	34	Dik.	Sel Res	Belefie	Lilon	Column !	Beluls	Duly	Bother	32

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	YE	REGISTER	NAMEOR	02.03	3.20	03.03	3.20	04.03	3.20	05.03	.20	06.03	3.20	07.03	3.20	
S.NO	AR	NUMBER	NAMEOF STUDENTS	6 HC	URS	6 HC	URS	6 HC	URS	6 НО	URS	4 НО	URS	4 HC	URS	TOTAL HOURS
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	(32)
19	II	112418105306	DEEPAK D	Donk	Dut	Duk	Duk	Onk	Out	Onk	mil	Ouk	no-k	nh.	Donk	32
20	II	112418105308	JAYASEELAN D	my.	wy	gur	any	rayo	dar	wy	184	100V	anv	1140	Just	32
21	II	112418105310	PERUMAL G	Part	Part	Prod	Paul	Part	Park	0 1	0 1	0	8	8		
22	II	112418105311	PRAGADEESHWA RAN A	Lock	bla	do	b	b	ble	1	Paul	Paul	Prod	Parl	Fruit	32
23	II	112418105312	RAMYA S	Come	Part	any	Parry	Carrie	Kargo	and	ho	Faures	Post	ph	ph.	32
24	II	112418105313	SATHYA MOORTHY R	a Coder	n. Cott	n. Solt	Righton	Hory	14		n. Yelling	H. W.	ally	q and	1 day	32
25	II	112418105314	SUBHAM THAKUR	c. So	Me	a.g	PA C	whole	418	ldt	PY I	you !	n.V	p. Sall	nicolly	32
26	II	112418105315	SUGUMARAN A	Str	Cur	cul	0.4	5 M	July 1	Van (CIA	L'ON S	NO	who c	hos	32
27	II	112418105316	SUSANTHIKA C	(2)	.d	5.01	aldi	p. 84)	1889	P80	p 80%	a80)	D-8-0	p 829	12-12	32
28	II	112418105317	VASANTH V	VAL.	wer	cor	Ca	war	. av	COL	.0	(0	60	C. d	Co	
29	П	112418105318	VINOTH KUMAR M	0-1		- kn	- 4	-de	() (ray 1	NOW C	Nev H	wave	wit	ver	32
30	III	112417105001	ANANDHA PRIYA.R	-	1	, was	Lune 1	We I	want 1	ind !	wen o	7		wat	well	
31	III	112417105002	AKASH.A	o de o	1	1.				1	-	varo	vand (ward	32
32	III	112417105003	AMMU.E	Jumes 1	mar l	1 annu	A ame	Ar	Jan C	Janes C) " (C			ar a	1/2	32
33	III	112417105004	ANAND.S	And o	w C	and o	and a	n	And A	m	mod	1 .	mon	think of	1	29
34	III	112417105005		x dr &	oher.		. cho	0.40	-	nond A	^	0.	0.4	1.	Λ.	32
35	III	112417105007	DIVAKAR.K	n c	170					.ch le	chi la	de	2.00	welle	-4	32
36	III	112417105008	GAYATHRI.V	and	000	wy.	1	wh o	~ O	1000	رواب	~ P	~ 0	10 pre-10	السما	32
37	III		KIRUBAKARAN.G	B E	10.	110,	1 00	110	910	Ju.	V.	arro	gay v	God v.	got .	32
8	III	112417105010	KISHOREKUMAR	rile .	A LANGE	white the	1	the	يا (او	100	1	2 8	*	10	2	32
9	III 1		MONISH.B	u lan.	My m	My W	7	1	Top K	I W	WK	W K	wh	1	ul	32
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				02.03	.20	03.03	.20	04.03	.20	05.03	.20	06.03	.20	07.03	.20	TOTAL
S.NO	YE AR	REGISTER NUMBER	NAMEOF STUDENTS	6 HO	URS	6 HO	URS	6 HO	URS	6 HO	URS	4 HO	URS	4 HO	URS	HOURS (32)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	(32)
42	III	112417105015	PRADEEBAN.V	probes	pridap	pradeep	Produp	pradep	pradep	produg	produp	Produp	praders	pradus	Broge	32
43	III	112417105017	PRAVEEN KUMAR.J	Poenty	Buh	Para	Poul	Powl	Nevel	Pand	reneg	Pomb	Rush	March	BOUND	32
44	III	112417105018	RAMYA.J.C	RA	Ay	R	RY	Rost	Ret	Rof	PJ	RA	RA	RA	and	32
45	III	112417105019	SNEHA.M	89	84	24	84	24	84	Sef.	84	SJ	84	क्ष्म	2	32
46	III	112417105020	SONA.S	88	88	28	84	848	88	85A	84	SP	28	8-P	SA	32
47	III	112417105021	SUBATHRA.K. S	R.H.	Loft	Sah	12-1/2	Suth	Buth	Eather.	Soften	242	LHE	Coth	South	32
48	III	112417105023	SURESH KUMAR.R	21	37	RD	CA	8-1	82	8th	8/2	24	8-1 KAR	FUD KUD	2 K	32
49	m	112417105025	UMA MAHESHWARI.R	mahed	mahad	mehgh	mahah	nahah	nahyh	mahya	nahgeh	makeh	mahagh	rabyt	rehalf	32
50	III	112417105026	VIGNESHWAR.D	vighesh	vignyl	vigned	vignat	vighal	Lighgle	vi ghash	vigher	v ignyh	viguest	vighe	vighyl	32
51	III	112417105027	VIGNESHWARAN. R	Wig	Wig	Wig	Wig	Wig	Wig	Wig	Wig	Wig	Wig	Pig	Qig	32
52	III	112417105028	VIJAYESHWARAN .B	wickg	vigka	vicky	vicky	vicky	vicky		vicky	vicky	vicky	wide	vicky	-32
53	III	112417105029	VIKRAM.S	141	Tropie	12	W.	LR.M	2-92-1	Ja Part	when	N. P.M	Magay	No Per	JAN 1	32
54	III	112417105301	AJAY KUMAR.K	AD	AR	AP	A	(Alex	AN	(B)	ON THE	A	AN	(AR)	(Plu)	32
55	III	112417105302	JENIPER.M	(Se	88	88	NR	Let	Sept.	R	8	A 1	J. R	88	N 82	32
56	III	112417105303	KAMALAKKANN AN.V	Keeral	caral	Ennal	Karal	Raral	Karal	Koural	tana	Karal	Kanoel	tara	Kara	32
57	III	112417105304	KARTHIRAVAN.D	Leev	Law	var	reald	Kari	Karr	Lar	Kon	Ken	Kan	2000	مردد	32
58	III	112417105305	LAKSHMI PRASAD.D.M	latch	takgh	lakeh	Katsh	cakeh	Lakeh	label	Lakel	Laky	Laksh	Lakeh	Lakel	32
59	III	112417105306	MAGESHWARAN. M	ragh	h mages	ragos	magyl	magage	magg	neggl	nggal	nages	neigogl	nagg	l maga	24 32
60	IV	112416105001	AJITH KUMAR.E	19	ATR	B	AS	AP	AH		AS	S	Al	Ay	AN A	32
61	IV	112416105002	ANUPRIYA.R	Aha	Any	Any	Any	Ang	Ary	Any	Any	Any	Dhy	Ary	Avey	32
62	IV	112416105003	ARAVINDAN.R	Artien	Avada	Arai	SAVIL	Avan	larang	Avoure	Avault	Araun	Axacia	Avail	Avai	1 32
63	IV	112416105004	DEEPA LAKSHMI.S	N	de	du	de	de	dr	de	dr	de	- de	de	di	- 32
64	IV	112416105065	DINESHKUMAR.C	Ri.	ei	pi	80	gi	101'	pi	Ri	gi.	Qi.	Q'	821	32



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	YE	REGISTER	NAMEOF	02.0	03.20	03.0	03.20	04.	03.20	05.0	3.20	06.03	3.20	07.0	3.20	
S.NO	AR		STUDENTS	6 H	OURS	6 H	OURS	6 H	OURS	6 H	OURS	4 HC	OURS	4 H	DURS	HOURS
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	(32)
65	IV	112416105006	ELAKIYA.E	8.8/2	& Blok) 2 Plat	* Eloki	R. Ral	E ELL	P. P. L.	R. ELL	e. et by	e. El. Kay	a E Elika	e Right	32
66	IV	112416105007	GANESAN.R	g. france		Ribert	n Rivers	10.000	& bont	Consider	Lows	Crosos	phares	" Course	Cariza	32
67	IV	112416105008	HARI KUMAR.K	a Agric	to Maria	12 fami	K. Hosti	Libert	K. Karik	2 Harris	W. How Kind	H. Harden	K. Bay	1 Hearly 1	N. Bright	32
68	IV	112416105009	INBAA MARI.M	inbas	elabaa	inta	a inhac	x inba	- The -	Cinhaa	1 1	11	19 bace	15.	1	
69	IV	112416105010	JAGAN.D	Sugn	Sm	Sym	Zorger	Spar 1	Sagar	Sun	Swan	gran	Sugar	11bag	inta	32
70	IV	112416105011	KARTHIKA.K	Honth	Visit W	V. Korita	L Vonte	W. Pastik	K.Mostry	V. Vone	A. V. Salling	Laurid	(Venthil	Joeth)		32
71	IV	112416105012	LAKSHMI.N	Lokshi	Labaha		Laka	Laken	Lalah	1 6 1	11 11 .	101.	111.	111	Coleman	82
72	IV	112416105013	MOHANA PRIYA.S	cyc	de	c.la	لل ي	1-1	AC.M		Caken	Leopera	Lakelun	Latini	Later	32
73	IV	112416105014	NAVAJOTHI.R	Bravele		D. War Blue	> C	S. Secured) /	S.C	S-Shandage	2-rapido por	S.M.	S. M.	32
74	IV	112416105015	PAVITHRA.A	0	(0)	3	/	1			*	2.4	2.580		2. Hours	
75	IV	112416105016	PRABAVATHI.K	Booksany	Luband S	and a second	o had	Dy delay	Proposite Contraction of the Con	Colonia	Market Mark	Se production of the second	Probarat	10 hours	4)(4)	Ju 30
76	IV	112416105017		of the	1	1		Dr.	//		Many .			10 . V		
77	IV	112416105019			2 Konda	R. Rosula	pk R.Romba	P. Remika	P. Parish	pt pt	Sparinger	Pla	MA	E. France	NK /	32
78	IV	112416105020	SAKTHIVEL.T	0-	2.1	R.FC	P.M.	P	P. 0	0	0	e de la	Paristo O	6.60	L. Parla	32
79	IV	112416105021	SARANRAJ.D	Solgia	Section	Some	Jan 1	J	3	3	300	2800	3	0	20	32
80	IV	112416105022	¥.			,	,			999	,	,	9434	2	980	32
81	IV	112416105023	VASANTH	Siva	siva	Siva	civa	Side	SIVA	Siva	sich	Siva	Siva	siva	Sria	32
82	IV	112416105024	KUMAR.S VEL.S	Jel 5	m	W	W	4	4	W	V	WI		w 1	w	32
33	IV	112416105025			Vel 5	200	Vels		Vel.s				Vel 5	Vels	Vels !	32
34		112416105301	ASHOK KUMAR P	Visy .	Vijay	vijag	VIJay	Viyay	VIJay	A	i kneis	rijay \	Jijay !	VINY !	dia	32
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66		3		3 Qua C	100	304 5	_	200	8500	42	8	-	eren 7	85	UBU . L.	32
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7	IV	112416105305	BALAHOO 637 Chur Z	BU	Bil	Bh	(B)	Bly	Bhel	BIT	Bul	1 /	0) (1	92	32



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		DE CYCZED		02.03	3.20	03.03	5.20	04.03	3.20	05.03	.20	06.03	.20	07.03	3.20	TOTAL
S.NO	YE AR	REGISTER NUMBER	NAMEOF STUDENTS	6 HC	URS	6 HC	URS	6 HO	URS	6 HO	URS	4 HO	URS	4 HO	URS	HOURS (32)
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	(02)
88	IV	112416105308	GAJENDRAN G	Engertre	Cason	Creighten	Grandin	Granders	Carbon	Cylinder	Crysters	Crysteen	Craylow	(suzedon	Cryelin	32
89	IV	112416105309	GOKULA KANNAN K	ap?	gell.	yall	exy e	yell	apt	got	gula	got	gel c	Je G	yate	32
90	IV	112416105313	LOKESH.T	Logerhin	logoth T	logent	l'ogen	Jagger 1	logesh	logesh	logoth	logeth	logesh	Jogenh	Rogert	32
91	IV	112416105314	LOKESH KUMAR M	10807	Loggest 1	Logoth	Logest	Logest	Logen	Logen	Logger	Loger	Logery	Logosh	rogesh Kul	32
92	IV	112416105315	MUNI SEKAR G	week	Mark	mul Sun	rein	Misin	min set	min my	ment sun	ming sur	soni Son	sur s	3	32
93	IV	112416105316	PRADEEP KUMAR.B	ned	wood	Dieg	week	hace	pres	pros	Lines	hires	breach	pra	Rose	32
94	IV	112416105317	PRAKASH S	pakuh	Packal	response	Deckall	Sakal	galah	-CHEST	gotop	Po. Kostr	Scrkon	pakal	Esc. Kosily	32
95	IV	112416105318	PRAVEEN KANNAN R	fur		pro	prov	Dia-	pro	prev	prod	pra	na	pro	your	32
96	IV	112416105322	SARAVANAN K	and a	85 ×	stop &	July -	Gone of	97	191/1×	97/2	N/1.V	6309/12	South	537/h.	32
97	IV	112416105324	SEKAR R B	Sekon	telen	sekon	Seleon	Selean	sekan	32607	Selean	sexon	sekon	Sepan	separ	32
98	IV	112416105701	SATHISH KUMAR K	satta.	多样	Surke	Sylve	24 X	Sulle	Syles	like s	while K	Sulland K	المنتبيد	estime	32
99	ME- PED	112419415001	AJITH KUMAR R	8JAH KUNT		ASIAL	1	Am.	- Pro-	Vie	Alimon	Pr.	Asinh		Put La	32
100	ME- PED	112419415002	ANANTHI S	hearthi	Anenthin	martin	Ananthi	Avanti	rauli.	would	Housti	houth	Avanti	Availle	white	32
101	ME- PED	112419415003	NANDHINI M	glanis	Nani	Nomi		Nami	1	Nui	MM	N-1	Nound	Nany	ind	32_
102	ME- PED	112419415004	SRIRANJANI N	Jen	flu	gr	se	flu	fl	ger	flow		Sh	Str	flo	32
103	ME- PED	112418415001	ARCHANA K	seel hint	puche.	Dehn	Anchur X	with	who	puhr. L	rection .d	purkou K	Julia	wretrum L	sentru.	32
104	ME- PED	112418415002	BHARATH M	Blu	Bh	BL	BL	Bh	Bh	BL	Bh	Bh	Bh	12h	Blo	32
105	ME- PED	112418415003	JOTHILAKSHMI	Joseph Me	Jara a	Jo Ani	Josa lani	joth!	Joseph Joseph	10 Per /why	JoHN John	Joth.' Nakih	ton!	Luteri	10th	32
106	ME- PED	112418415004	MATHIAS RAJ M	pro	nor	146	nur	hus	hop	my	m	me	rete	pul	Mh	32
107	ME- PED	112418415006	SUDHA K	Edlar	sur!	Sud har	sudta	Jos	adka	sud it	3 ve k	sur k	sud k	Jha	and la	32

COORDINATOR

(Mrs.S.S. Divys)

Thirupachur 631 203 6

W. HOD/EEE

(Mr.M. Namachivayam)



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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) MC68 Phirupach



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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) 808



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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)

y, ~~~

HOD / EEE

(Mr.M.Namachivayam)

Thirupachur 203 CO HOBILOR BANGO CO HOBI



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19EEEVAC02 - EMBEDDED SYSTEM DESIGN USING ARDUINO

FEEDBACK FORM

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

Sem & Year: 08 X N

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
- 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

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Student Signature



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19EEEVAC02 - EMBEDDED SYSTEM DESIGN USING ARDUINO

TEST QUESTIONS

Student Reg. No. & Name: 112416105322 & Saravaran. K

Sem & Year: 08 &

- 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
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- 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 RA

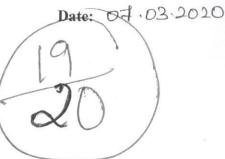
c) Microcontroller

Microprocessor

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- 6. Which of the architecture is more complex?
- a) MC68040
- b) MC68030
- s) SPARC
- d) 8086
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- 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
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- 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 portaccess to the microcontroller's file system



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





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c) 8087

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

A) FPGA





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19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO

Course Code	19EEEVAC01			
Name of the Course	EMBEDDED SYSTEM DESIGN USING ARDUING			
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	NAMEOF 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 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		112418105302	ANBARASAN A	32	80
17/5	COLLEGE	112418105304	BALAJI C	132	85
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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	RHHOLL	913417105013	NAVANEETHA HALDER	32	90
41	ТЫнрас	1124 7105014	NAVEENA.P	PAL32	90



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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.N	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	RAFVILE	112416105005	DINESHKUMAR.C	132	80
65	Thirupac	112 16105006	ELAKIYA.E	INCIPAL 32	95



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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	3D	
86	IV	112416105304	BALAJI G	32	80	
87	IV	112416105305	BALAJI O	32	85	
88	ANIVOLLE	112416105308	GAJENDRAN G	82	90	
89	Thirupade Pin: 631 2	112416105309	GOKULA KANNAN K	32	80	



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91	IV	112416105314	LOKESH KUMAR M	32	
92	IV	112416105315	MUNI SEKAR G	32	85
93	IV	112416105316	PRADEEP KUMAR.B	32	85
94	IV	112416105317		32	85
95	IV	112416105318	PRAVEEN KANNAN R	32	85
96	IV	112416105322	SARAVANAN K	32	85
97	IV	112416105324	SEKAR R B	32	95
98	IV	112416105701	SATHISH KUMAR K		80
99	ME- PED	112419415001	AJITH KUMAR R	32	80
100	ME- PED	112419415002	ANANTHI S	32	80
101	ME- PED	112419415003	NANDHINI M		85
102	ME- PED	112419415004	SRIRANJANI N	32	85
103	ME- PED	112418415001	ARCHANA K	32	90
104	ME- PED	112418415002	BHARATH M	32	90
105	ME- PED	112418415003	JOTHILAKSHMI		85
06	MF-	112418415004	MATHIAS RAJ M	32	85
07	MF-		SUDHA K		85

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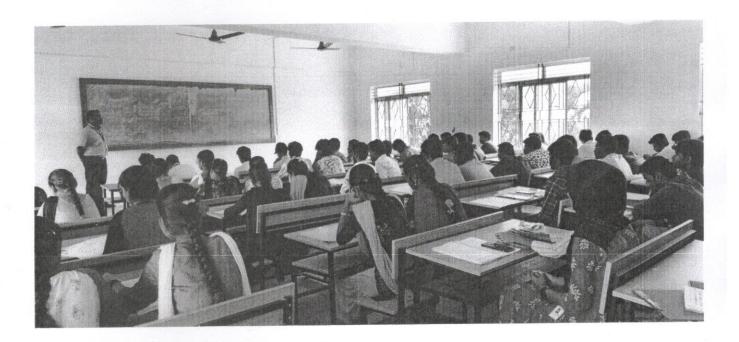


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19EEEVAC01 - EMBEDDED SYSTEM DESIGN USING ARDUINO



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

