K.S.R. COLLEGE OF ENGINEERING (AUTONOMOUS), TIRUCHENGODE-637215

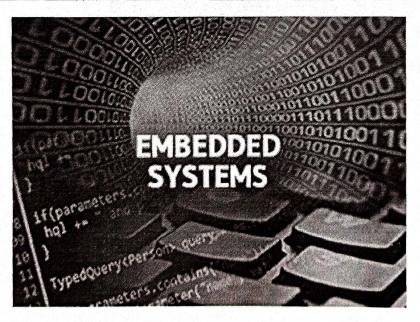


Department of Electronics and Communication Engineering

In Association with

CALIBER INCUBATION CELL

Six Days Value Added Course on "Embedded Systems"



Coordinator: Dr.S.Karthikeyan, Professor/ECE

Date: 18.11.19 to 23.11.19 Venue: VLSI Lab/ECE Department

From

Dr.S.Karthikeyan,

Department of ECE,

K.S.R.College of Engineering,

Tiruchengode.

To

The Principal,

K.S.R. College of Engineering,

Tiruchengode.

Respected Sir,

Sub: Value added course on Embedded Systems - Permission requested-Reg.

The ECE department has planned to conduct a Six days Value added course on Embedded system from 18.11.2019 to 23.11.2019. We request you to grant permission to conduct the value added course for ECE department.

Thanking You,

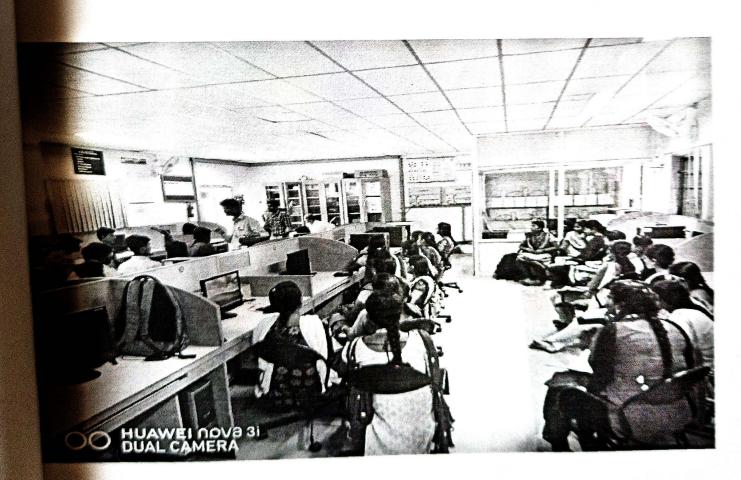
Yours sincerely,

by by

K.S.R.COLLEGE OF ENGINEERING (AUTONOMOUS), TIRUCHENGODE -637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering association with aliber Incubation Cell, Erode has organized Six Days value added course on Embedded Systems" from 18.11.2019 to 23.11.19 for III year ECE students. In M. Parthipan, Managing Director, Caliber Embedded Technologies with his team belivered the content of the workshop, its divided into five modules. Every day they explained each module. It includes both theory and practical session. Finally Dr. 8. Karthikeyan Professor/ECE gave the certificates to the participants.



Stanford

Adoptece



K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

In Association with CALIBER INCUBATION CELL

FIX DAY! VALUE ADDED COUD! ON "EMBEDDED !!! FEM!"
18.11.19 TO 25.11.19









K.S.R. COLLEGE OF ENGINEERING

(An Autonomous Institution, Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accreditated by NAAC with 'A' Grade and ISO 9001:2008 Certified Institution)

R. SRINIVASAN B.B.M., Chairman cum Managing Trustee Dr. P. SENTHIL KUMAR M.E., Ph.D..(IITM)
Principal

DATE: 23.11.2019

LETTER OF APPRECIATION

This is to appreciate and thank Mr. K. Ramesh, Project Engineer, Caliber Embedded Technologies, Coimbatore through his session on Six days value added course on "Embedded Systems", conducted by our Department of Electronics and Communication Engineering on 18.11.2019 & 23.11.2019. This course helped the students to understand the Basics of Embedded systems, concepts of Digital IO &LCD display Interfacing, ADC and PWM application, serial communication and idea about Internet of things. This course also enhances the knowledge on design and developing the real time projects using Embedded systems.



PRINCIPAL

PRINCIPAL K.S.R. COLLEGE OF ENGINEERING K.S.R. Kalvi Nagar, Tiruchengode-637 215 Namakkal Dist., Tamihadu



WORKSHOP SYLLABUS

DAY1

BASIC ELECTRONICS & COMPONENT SELECTION & DEBUGGING

Morning session

Theory

- Resister, Capacitor, Diode, Inductor, Relay, Transistor & Mosfet's.
- Regulator Power Supply Design.
- Switched Mode Power Supply Design.
- Practices-Real Time Devices.

Afternoon Session

- Hardware Implementation / Soldering Session.
- Electro Magnetic Induction & Mutual Inductance
- Regulated power supply design.
- Relay Transistor Driver Circuit.
- Resistors impact in real time sensor.



MORNING SESSION

EMBEDDED SYSTEMS BASICS

Objective: To learn embedded systems basics. To understand the role and importance of embedded system in Industries.

Topics to be covered:

- > Current Trends in Embedded systems.
- > Embedded Systems Applications.
- > Sensors to real time world communication.
- > Need of Device Drivers.
- > Compilers and its features.
- > Detailed description about PIC micro controllers.
- > Embedded C basics.

Practical Session

- > Software installation (CCS compiler & Proteus simulation tool)
- > Basic embedded C programming experiment verification in proteus
- > Comparator design (A/D converter)
- > Timer Design



DIGITAL IO & LCD DISPLAY INTERFACING

Objective: To Learn, How to communicate or control Keypad & LED devices I/O devices. Practical demonstration on how to read GPIO Controller registers.

Skill set: Device Controller, GPIO Controller, Interrupts.

Topics to be covered:

- ➤ I/O Ports pull Up/Down registers Concepts.
- > Interrupts and interrupt programming.
- ➤ How to initialize GPIO Controller and access/control data from Keypad or LED.
- > 16*2 LCD interfacing.

Practical Demo:

Digital Sensor Interfacing (IR Sensor, push button, toggle switch, proximity sensor etc.,)

Student Tasks

- Bidirectional visit counter
- > Car parking control
- > Lift automation control



ADC & PWM Application.

Objective: To Learn, How to use ADC & PWM application.

Topics to be covered:

- > Analog interfacing and data acquisition.
- > Sampling.
- > Quantization.
- > ADC Registers.
- > Important of calibration
- ➤ Important of ADC/ DAC.

Practical Demo:

> Temperature & LDR & Accelerometer sensor interfacing etc.,

Student Task:

- ➤ Boiler / Induction Stove Temperature Controller.
- > Night Vision Intensity Control System.
- > Adxl335 mems sensor interfacing automobile application.

Gmail: parthi.electrical@gmail.com



SERIAL COMMUNICATION

Objective: To learn Serial Communication protocol basics, PIC UART / I2C Protogol.

Topics to be covered:

- > Serial Communication
- > Synchronous/Asynchronous interfaces(like UART, USB, SPI, and I2C)
- > UART protocol, I2C protocol, SPI protocol.
- > Implementing and programming UART & I2C Interfacing external devices.

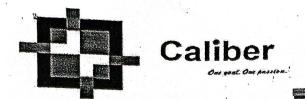
Practical Demo:

Bluetooth, zigbee, GSM, digital clock interfacing etc.,

Student Task:

- > Android app Bluetooth device automation (voice commands).
- > Timer based agricultural drip / college bell automation.
- Wireless Data Acquisition System.

Gmail: parthi.electrical@gmail.com



INTERNET OF THINGS

Topics to be covered:

- > Introduction to Internet of Things (IoT)
- > Applications of IoT in various business sectors
- > IoT architecture & building blocks
- > How to build an IoT product
- > Sensors & Interfacing
- > Software & Hardware platforms for IoT implementation
- > Introduction to Arduino Hardware & IDE

Practicals

- ➤ Control of equipment using ESP8266+NODE MCU
- > NodeMCU as an Access Point
- ➤ Mobile Weather Station using NodeMCU

K.S.R. KALVI NAGAR, TIRUCHENGODE - 637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IN ASSOCIATION WITH

CERTIFICATE OF COMPLETION



This is to certify that Mt./Ms. _____A. YASHI KA _- 1 18 / ECE

on "EMBEDDED SYSTEMS" held at K.S.R. COLLEGE OF ENGINEERING from 18/11/2019 to 23/11/2019. K.S.R. COLLEGE OF ENGINEERING has successfully completed six days VALUE ADDED COURSE

M. Vinh

Mrs.M.VIMALADEVI, M.E., HR Manager - Caliber

M.E.,
ber

HOD/ECE

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BOSCH bridge

Innoves STANLEY

BERKEL X

Dr.P.SENTHIL KUMAR



502-3, Angammal Colony, Near New Bus Stand, Salem-636009.

Salemcaliberembeddedtech@gmail.com

K.S.R. College of Engineering ,Tiruchengode

Department of ECE

Value Added Course on Embedded System

Duration: 18.11.2019 - 22.11.2019

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S.No	Reg no	Student Name	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1/	1715001	AARTHI. E	1	1	1	1	1	1	1	1	1	1
2./	1715008	DEEPA. G	1	1	1	1	1	1	1	1	1	1
3.^	1715009	DEEPADHARANI, R	1	1	1	1	1	1	,	1	1	1
4.1	1715017	GIRIRAJA. T	1	1	1	1	1	1	1	1	1	1
50	1715018	GOKUL, P	1	1	1	1	1	a	1	1	1	1
6,1	1715023	HARIHARAN. R	1	1	1	,	1	a	1	1	1	,
71	1715027	JAWAHAR. N	1	1	1	1	1	a	1	1	1	1
8./	1715030	JEEVA. S	1	,	,	1	1	1	1	1	1	1
9.1	1715031	JEEVITHA. R	1	1	,	1	1	,	1	1	1	1
10.	1	KARTHICK. G	1	,	1	1	1	a	1	1	1	1
111/	1715033	KAVIARASU. P	1	1	1	1	1	1	1	1	1	1
12./	1715035	KAVINRAJ. R.C	1	1	1	,	1	1	1	1	1	1
13/	1	KIRUTHIGA. E	1	1	1	1	1	,	1	1	1	1
14/	1	KOWSALYA, M	1	1	1	7	1	1	1	1	1	1
15./	1	LATHAMAHESH. M	1	1	1	1	1	,	1	1	1	1
16.		MAHASWETHA. M	1	1	1	1	1	,	1	1	1	1
17/		MAHEBA. M	1	1	1	1	1	1	1	1	1	1
18/	1	MANIKANDAN. V	1	1	1	1	a	a	a	a	1	1
19,		MOHAMMED ADHIL. A	1	1	1	a	1	1	1	1	1	1
20		MOHAN KUMAR. B	1	1	1	1	1	1	1	1	a	a
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23,			1	1	1	1	1	1	1	1	1	1
24.	1715054	NAGARAJAN. G	1	1	1	1	1	a	1	1	1	1
25.	1715056	NARENDRAN. R	1	1	1	1	1	1	1	1	1	1
26.	1715057	NITHISH KUMAR. R	1	1	1	1	1	1	1	1	1	1
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39_/	1715077	SOWNDARYA. R	1	1	1	1	1	1	1	1	1	1
40.^	1715078	SRINITHI. R	1	1	1	1	1	1	1	1	1	1
41.	1715079	SUDEV. M	1	1	1	1	1	1	a	a	1	1
42/	1715081	TAMIL MANI. D	1	1	1	1	1	1	a	1	1	1
43	1715082	TAMILSELVI. R	1	1	1	1	1	1	1	1	,	1
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45/	1715086	VIMAL. V	1	1	1	1	1	1	1	1	1	1
46	1715089	YAZHINI. M. P	1	1	1	1	1	1	1	1	1	1
47/	17150	YASHIKA.A	1	1	L	1	1	1	1	1	1	1
48/	1715093	YOGESWARI. S	1	r	1	1	a	a	1	1	1	1

Coordinator



K.S.R. College of Engineering, Tiruchengode Department of Electronics and Communication Engineering <u>Value Added Course</u>



Caliber

on

EMBEDDED SYSTEMS

Duration: 18.11.2019-22.11.2019

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S.No	Register number	Name of the student	Year/ Sec	Signature
1.	1715078	R. SRINITH!	ũ Β	R. Brinithi
2.	1715082	R. TAMILSELVI	⊕ B·	R. Bashirand
3.	1715077	R. Sowndarya	VIB	P.S.
4.	1715076	R. SOWMIYADEVI	10 (B)	R Sey
5.	1415085	M. Vijaya kakehmi, , , , , , ,	III B	M. Vigorolak
6.	1715066	S.M. Polithikha milili	III B	8: M. Pure
7-	1715089	M.P. YAZHINI	ांग्रे । В	M. P. fort
8.	1715009	Z-Deepadharani	11 -A	I Defi
9.	1715031	R. JEEVITHA MINISTER	M-A	Juith P.
10.	1715041	M. MAHASWETHA	m - A'	M. Mahaswether.
11.	1715039	M. Lathamahesh.	15 -A	M. Latt 2.
12.	1715038	M. KOWSALYA	15 - A'	M. Koyuya
13.	1715036	E. KARUTHIAA	亚-月	I. Treath
14.	1115042	M. Maheba	i) -'A'	Halubary

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1	1715021	P. Gowsalya	<u> </u>	Pagesal
16.	1715049	B. Mohana	M-B	Mohane
17.	1715061	K. Pavithra	11 - B'	K-Pavita
18.	1715093	S. yoge shwavi	III - B'	Q. Yogeshia
19.	1715070	V Sandhiya urumum d	<i>īy</i> - Β'	V. Sandhiya
20.	1715001	E-Aarthi	M-A	Thate
21.	1715008	G. Deepa	III-A	Dolo
22.	1715075	P. Shivashankav	<u>II-B</u>	PSey
23.	1715046	A Mohamad Adhil	Л-Д.	adu.
24.	1715048	B. Nohan komat	A- iii.	2015
25.	1718073	L. Soithish kumas	TI - B	L. Durth
26.	1715086	V. Vimal	ш -В	J. John L
27.	145081	D. Tamimani	Ш-В.	Q.24
28.	1715043	MANIKANDAN.Y	- A	MSC
29.	17150,30	S. JEEVA.		a B
30.	1715017	T. GITRI RAJA	10-H	TOM
31.	1715023	Rotlaniharan	M.A	R. Hooth
32.	1716027	N. Jawa has		M. Jaff
33.	1715018	P. Gokul	M-A	P. Goo
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1715071	R. SANJEEV KANTH	III-B'	R. Sarjankants
1715057	R. NITHISH KUMAR	111 - B	R. Nith of
1715069	P. RAVIRAJ	111-'B'	p-Roy
1715035	R.C. KOVINROI	m - P	R.C. \$94
1715033	P. Hewicirosu	<u>ш</u> -А	R. Vandson
1715032	Or Karanick	11-A	Croberse.
1715059	a. Nagarajan	m-B	a.nosey)
1715079	M, SUDEV	111-B	M. Sul-
1715064	Prathiram -R	III-B	TSSP
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K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215

Department of Electronics and Communication Engineering

In Association with

CALIBER INCUBATION CELL

Six Days Value Added Course on "Embedded Systems"

18.11.19 & 23.11.19

ACCOUNT DETAILS

A Registration Details:

	Number of students registered	Amount in Rs
· Control on the control of	Participants registration fee (700 per et al.	48
6 Ellisanos	Amount given to resource person (caliber incubation cell)	33600
Constitution	Balance (A)	28800
		4800

B. Miscellaneous

Tea &Snacks Poster	Amount in R
	111
Food for volunteers Battery	1125
Color printout	1322
Printout	140
Total (B)	50
Amount in hand (A-B)	2748
	2052

Signature of the Participant

K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

In Association with

CALIBER INCUBATION CELL

Five Days Workshop on "Embedded Systems"

18.11.19 to 23.11.19

FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

	Killaly IIII ap	the form and holp us to a	inprovo ana mamam ara	100, 0. 00. p
Nar	ne of the Partic	Sipant: R.JEEVITHA		Date: 22/11/19
Ado	dress	: ECE- m	A^	
1.	How did you fee	el about the overall organi	ization and conduct of this	program?
	a. Excellent	그리고 얼마 얼마나 하는데 나를 하는데 하는데 얼마나를 보고 있다면 하는데 하는데 하는데 되었다.	c. Not Satisfactory	
2.	Your opinion at	oout the time Managemen	it?	
	a. Excellent	No. Good	c. Not Satisfactory	
3.	Are you satisfie	ed with the overall Registra	ation process?	
	A. Yes	b. No		
4.	Can you able to workshop?	o design and develop a pr	oduct using embedded kit	based on this
	a. Yes	b. No		
5.	Are you able to	troubleshoot the problem	in the embedded kit?	
	a. Yes	b. No		
6.	Do you think th	at the learning from this w	orkshop will help for lifelor	ng learning?
	A. Yes	b. No		
7	What was the I	most beneficial aspect of the	his workshop?	
		Internative & A	nowleaflast	
٥	Montion enecif	ic changes to be made in t	the future program. If any,	
8.	Methon speci	pare and a second secon		furthe R.

KSRCE/QM/5.5.3/01/ECE K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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CALIBER INCUBATION CELL

Five Days Workshop on "Embedded Systems"

18.11.19 to 23.11.19

FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

lar	me of the Partici	ipant: M. Lathan	naheth. Date: 21.11, 2019.
	dress	: KSRCE - EC	F - 15 md year - A!
1.	How did you fee	about the overall organ	ization and conduct of this program?
	a. Excellent	.b. Good	c. Not Satisfactory
2.	Your opinion ab	out the time Managemer	nt?
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3.	Are you satisfie	d with the overall Registr	ation process?
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	a. Yes	b. No	
5.	Are you able to	troubleshoot the problem	in the embedded kit?
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6.	Do you think th	at the learning from this v	workshop will help for lifelong learning?
7.	What was the r	nost beneficial aspect of baru ent	this workshop? edded work. the future program. If any, M. Lat
8	. Mention specif	ic changes to be	M.Lad
			Signature of the Participant

K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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CALIBER INCUBATION CELL

Five Days Workshop on "Embedded Systems"

18.11.19 to 23.11.19

FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

Name of the Participant: M.P. YAXHINI	Date: 12.11.2019
Address : III - ECE-B	
1. How did you feel about the overall organization and conduct	of this program?
a. Excellent b. Good c. Not Satisfa	
2. Your opinion about the time Management?	
a. Excellent Jo. Good c. Not Satisfa	actory
3. Are you satisfied with the overall Registration process?	
a/Yes b. No	
4. Can you able to design and develop a product using embedd	ded kit based on this
workshop?	
A: Yes b. No	
5. Are you able to troubleshoot the problem in the embedded ki	t?
a. Yes 🕳 No	
6. Do you think that the learning from this workshop will help for	r lifelong learning?
A.Yes b. No	
7. What was the most beneficial aspect of this workshop?	

8. Mention specific changes to be made in the future program. If any,

Signature of the Participant

K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

Na	ame of the Participant: AasThu. t	Date. 22-11-19
	ddress : KSRCE - 111 - ECE	
1.	How did you feel about the overall organization. Good	tion and conduct of this program? c. Not Satisfactory
2.	Your opinion about the time Management? a. Excellent b. Good Are you satisfied with the overall Registration	c. Not Satisfactory n process?
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4.	Can you able to design and develop a produ	ict using embedded kit based on this
	workshop? a. Yes b. No	
	Are you able to troubleshoot the problem in to	
6.	Do you think that the learning from this works	shop will help for lifelong learning?
		subject are new to us
8.	Mention specific changes to be made in the	Signature of the Participant

K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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CALIBER INCUBATION CELL

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18.11.19 to 23.11.19

FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

	Tanaiy iii ap			
Na	me of the Partic	ipant: G. Deepa	e i la	Date: 22(11) 1
Ac	ldress	: W.ECE		
1.	How did you fee	el about the overall organiz	ation and conduct of this p	orogram?
	a. Excellent	Good	c. Not Satisfactory	
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	a. Excellent	(B) Good	c. Not Satisfactory	
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5.	Are you able to	troubleshoot the problem in	n the embedded kit?	
6.	Do you think tha	at the learning from this wo	rkshop will help for lifelong	g learning?
7	What was the m	nost beneficial aspect of thi	s workshop?	
	learn about	u new software a	nd haviduale	
8.	Mention specific	c changes to be made in th	e future program. If any,	

Signature of the Participant

KSRCE/QM/5.5.3/01/ECE K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode - 637215 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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FEEDBACK FORM

Kindly fill up the form and help us to improve and maintain the quality of our program.

Name of the Partic	ipant: M. Kowsali	ya	Date: 22 11-19
Address	: K.S.R.CE	- FCF - A'	
1. How did you fee	el about the overall organia	zation and conduct of this	program?
a. Excellent	b. Good	c. Not Satisfactory	
2. Your opinion ab	out the time Managemen	t?	
a. Excellent	_b. Good	c. Not Satisfactory	
3. Are you satisfie	ed with the overall Registra	ation process?	
a. Yes	b. No		
4. Can you able to workshop?	o design and develop a pr	oduct using embedded kit	based on this
a. Yes	b. No		
5. Are you able to	troubleshoot the problem	in the embedded kit?	
a. Yes	b. No		
6. Do you think th	nat the learning from this w	vorkshop will help for lifelon	ng learning?
a. Yes	b. No		
7. What was the	most beneficial aspect of	this workshop?	
It is	useful to lea	un avout emi	hedded It's and
8. Mention speci	ific changes to be made in	the future program. If any,	Sensovs
		M	Kows-ly-
			ature of the Participant