

SCHOOL OF ELECTRICAL ENGINEERING

Value Added Courses (2019 -2020)

Embedded C with RTOS and IoT


Course Objective

An embedded system is one kind of a computer system mainly designed to perform several tasks like to access, process, store and also control the data in various electronics-based systems. Embedded systems are a combination of hardware and software where software is usually known as firmware that is embedded into the hardware. One of its most important characteristics of these systems is, it gives the o/p within the time limits. Embedded systems support to make the work more perfect and convenient. Arduino is an open-source, single-board, microcontroller for building devices that can sense and control objects in the physical world. So, we frequently use embedded systems in simple and complex devices too. By providing Hands-on workshop to students, they will get idea on hardware components. By using this knowledge they can develop simple real time problems. In this workshop we will use Embedded C for microcontroller programming .This Workshop aims at imparting job-oriented training on Microcontroller architectures and concepts of Embedded C language from an industry perspective. More emphasis shall be given to hands-on (practical) sessions for better understanding.

Resource Persons :

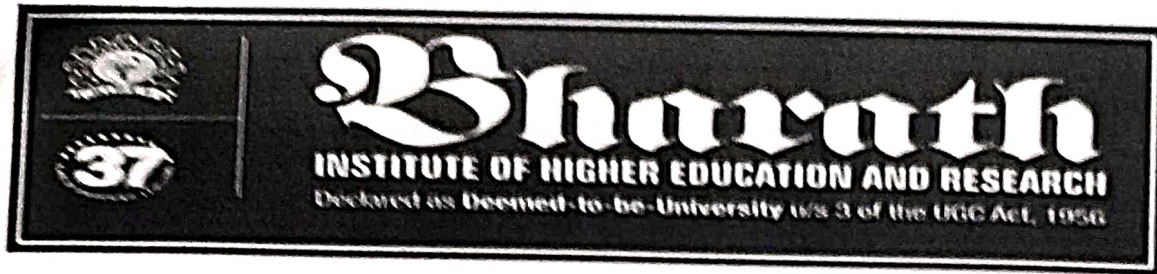
- 1.Ms.S. Arulselvi
- 2.Ms.K. Subbulakshmi
- 3.Ms.S.Saravana

Convener



Dr.M.Sangeetha

HOD/ECE



Requisition Letter

Date: 10.06.2019

From

The HOD,
ECE Department,
Bharath Institute of Higher Education and Research,
Selsaiyur, Chennai.

To

The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selsaiyur, Chennai.

Respected Sir,

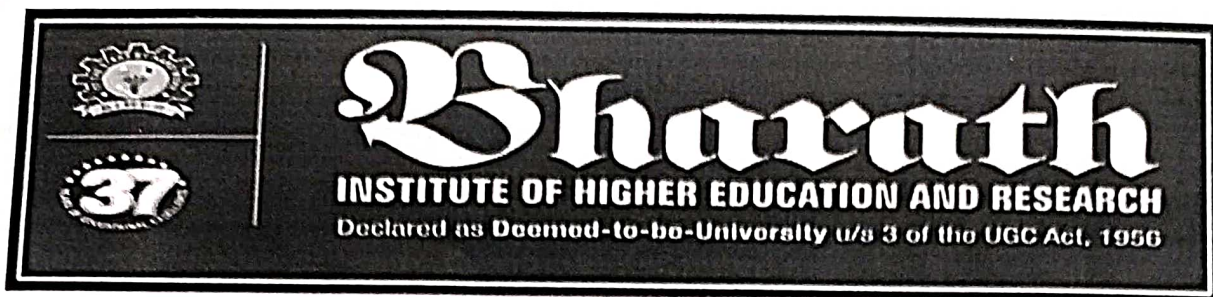
SUB: Requisition for conducting Value Added Course-Regd

School of Electrical Engineering has planned to conduct Value added Course on "Embedded C with RTOS and IoT" on 15.07.2019. In this regard we kindly request you to grant permission for the same.

HOD/ECE

Thanking you

Dean Engineering



CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 08.07.2019

The course on Hands on Training "Embedded C with RTOS and IoT" is planned by School of Electrical Engineering which commences on 15-07-2019 (Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get befitted for the certified course.

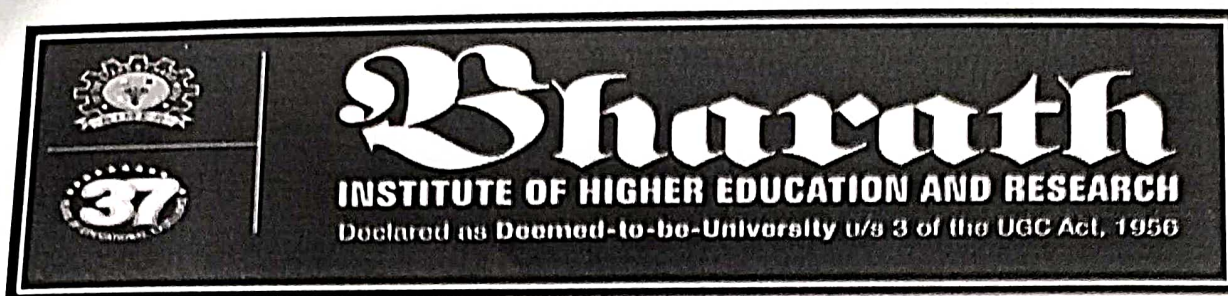
Course Coordinator: Ms. S. Saravana

Contact No: 9952947458

Email id : selvidurai1975@gmail.com

Dr.M.Sangeetha
HOD/ECE

To,
Copy to ECE Department,
Copy to EEE Department,
Department Notice Board



SCHOOL OF ELECTRICAL ENGINEERING

Embedded C with RTOS and IoT

SCHEDULE

Contact Hours : 30 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
15-07-2019	FN	9.00 am to 12.30 pm	Introduction: Microcontroller vs Microprocessor Arduino vs Rasberry Pi	Ms. S. Arulselvi
	AN	1.30 pm to 4 pm	Overview of Embedded systems	Ms.K. Subbulakshmi
16-07-2019	FN	9.00 am to 12.30 pm	Selecting the Right Arduino Board for your Project	Ms.S.Saravana
	AN	1.30 pm to 4 pm	The mindset for learning Arduino Fundamentals of Arduino Electronics	Ms.S.Saravana
17-07-2019	FN	9.00 am to 12.30 pm	Understanding a circuit Diagram Using a Digital Voltmeter How t not Blow up GPIO pins and other safety Precautions	Ms. S. Arulselvi
	AN	1.30 pm to 4 pm	Software and Hardware Tools for Arduino Exploring the Arduino IDE	Ms.K. Subbulakshmi
18-07-2019	FN	9.00 am to 12.30 pm	Programming the Arduino Writing your first program: A Blinking light Programming fundamentals: Loops, conditionals, variables, functions and parameters	Ms.S.Saravana
	AN	1.30 pm to 4 pm	Overview of Input/ Output Interface Configuring the input sensors	Ms. S. Arulselvi

			LEDs, Switches, Buzzers, and Display devices Programming Sensor to Output Device Control	
19-07-2019	FN	9.00 am to 12.30 pm	Project: Automatic Light Adjustment System Analog to Digital Conversion Serial Communication and UART Programming Sensor sticks, motors and audio devices	Ms.K. Subbulakshmi
	AN	1.30 pm to 4 pm	Project TBD Testing and Debugging Extending Arduinos Capabilities Joining the Arduino Community Troubleshooting	Ms.S.Saravana

VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING

Embedded C with RTOS and IoT

List of Participants

Date:15.07.2019

S.NO	STUDENT NAME	Register No.
1	ANNAAMALLAI CT	U16EC001
2	MOTHESWARAN G	U16EC002
3	PINJARI REHMAN VALI BASHA .	U16EC003
4	HARIHARAN M	U16EC004
5	POTLADURTHI SREENIVASA TEJA .	U16EC005
6	PRIYANGAA T	U16EC006
7	THIMMIGARI SAIVARDHAN SAIVARDHAN	U16EC007
8	BORA GANESH GANESH	U16EC008
9	MUNTA PRAVEEN KUMAR .	U16EC009
10	mathiukhonang .	U16EC010
11	SANGAVI B	U16EC012
12	ANCHA KRISHNA REDDY .	U16EC013
13	BUGUDI RAMU RAMU	U16EC014
14	GANJI BHARATHCHANDRA BHARATHCHANDRA	U16EC015
15	KATIKERI VENKATESH VENKATESH	U16EC016
16	KOWSALYA K	U16EC017
17	UNNAM SIVA KRISHNA .	U16EC018

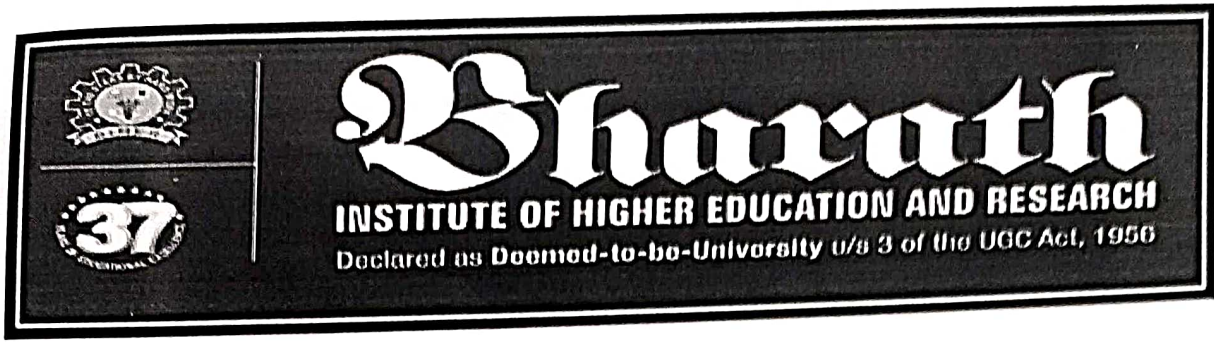
18	RAUSHAN KUMAR .	U16EC020
19	ALIVELI CHARAN SAI .	U16EC021
20	BASIMALLA MARK RATNA BOSE .	U16EC022
21	THATIKONDA PREM SAI .	U16EC023
22	DASINENI ANUSHA ANUSHA	U16EC024
23	KOLLUMALLA SHYAM NAGA SRI KIRAN	U16EC025
24	HIMAVANTH J P	U16EC027
25	THIRIVEEDI SUBBAMMA SUBBAMMA	U16EC028
26	PEMMASANI KAVYA KAVYA	U16EC029
27	KAMASANI JYOTHI PRAKASH REDDY .	U16EC030
28	PEDINEEDI NAGARJUNA	U16EC031
29	YANAMALA SREEKANTH REDDY .	U16EC032
30	MOTE KEERTHI KEERTHI	U16EC033
31	ADDALA KRISHNA VAMSI .	U16EC034
32	GOKARAJU AJAY BABU .	U16EC035
33	MANE CHANDRAKANTH CHANDRAKANTH	U16EC036
34	SANNUTHI VINAY NAGA PRANEETH .	U16EC037
35	TELLAMEKALA PRADEEP KUMAR .	U16EC038
36	MATTAPALLI SAI SRIKANTH YADAV .	U16EC039
37	PULI NAGANATH REDDY .	U16EC040
38	KOTTRA ANUSHA GOUD .	U16EC041
39	RADHAKRISHNA K	U16EC042
40	KAPULURI MARUTHI RAO .	U16EC043
41	RAMPRASATH T	U16EC044

42	KAPULURI VENKATESWARLU	U16EC045
43	VEMULA SIVA SANKAR VARAPRASAD .	U16EC047
44	AJITH A K	U16EC085
45	BUSETTY LIKITHESH	U16EC513
46	RAHUL K	U16EC701
47	ESWARCHANDRA PRASAD T	U16EC702
48	GUDLURU SUMANTH	U16EC048
49	KUCHULA SAIKUMAR REDDY	U16EC049
50	KOTA VENKATA SIVA PRASAD REDDY	U16EC050
51	GANGASANI SAI NANDA GOPAL REDDY	U16EC051
52	POKALA SUDHARSHAN REDDY .	U16EC052
53	CHINTALA GANESH	U16EC053
54	TAMATAM HARSHAK REDDY .	U16EC054
55	DURGAPRASAD M	U16EC055
56	YANDRA SAI VENKAT .	U16EC056
57	AKASH KUMAR C	U16EC057
58	BHASHAKARLA GOPIKRISHNA	U16EC058
59	MADDIBOINA GIRI BABU .	U16EC059
60	MASANAM TARUN	U16EC060
61	ANIL KUMAR N E	U16EC061
62	KALLURI RAMA KSRISHNA .	U16EC062
63	YALAMANDALA SANDHYA	U16EC063
64	RACHARLA VENKATNARAYAN	U16EC064
65	MAHESH .	U16EC065

66	MARAMREDDY MURALI MOHAN .	U16EC066
67	JIJJARAPU SHIVA	U16EC067
68	DINESH D	U16EC068
69	BURLA MALLIKHARJUNA REDDY .	U16EC069
70	KATNAM SAIKUMAR .	U16EC070
71	YANAMALA VASU	U16EC071
72	VEMIREDDY NARASA REDDY .	U16EC074
73	MANGISHETTI RAVALI	U16EC075
74	KOMMINENI DHARANI	U16EC076
75	KAVALA HARI HARSHAVARDHAN .	U16EC077

(Dr.M.Sangeetha)

HOD/ECE



SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

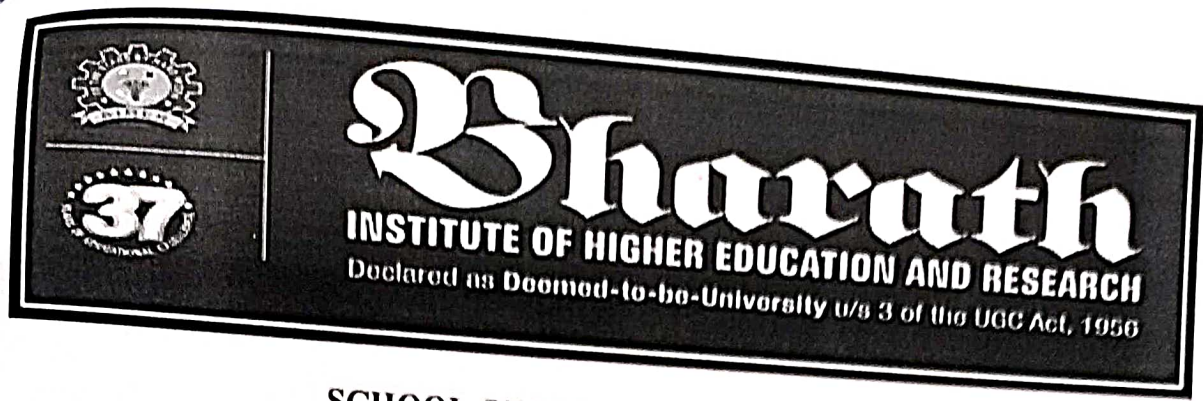
Embedded C with RTOS and IoT

Date: 19/7/2019

FEED BACK FORM

Name	HIMAVANTH JP				
Register number	U16EC027				
Phone number	9196773737				
Email address	himavanthJP@gmail.com				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	


Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

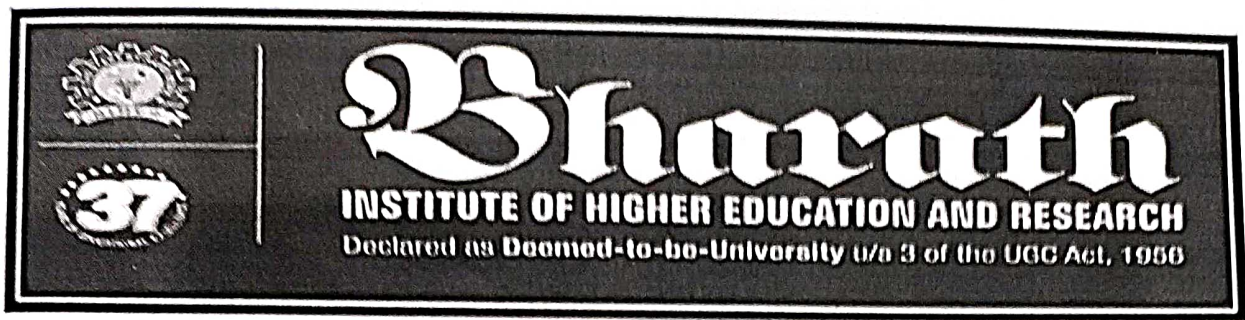
Embedded C with RTOS and IoT

FEED BACK FORM

Date: 19/7/2019

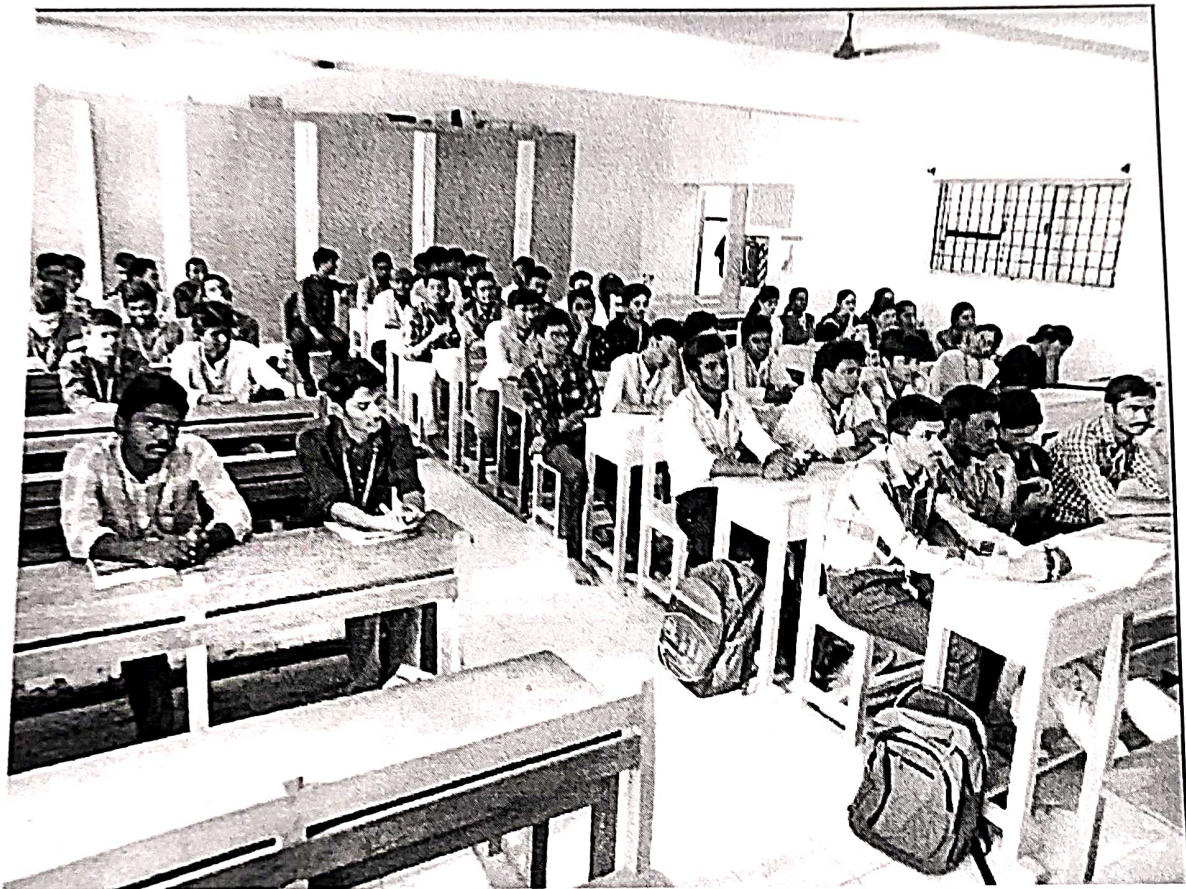
Name	SANGAVI B				
Register number	U16ECO12				
Phone number	9884558267				
Email address	SangaviB@gmail.com				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	


Student Signatur



SCHOOL OF ELECTRICAL ENGINEERING

Course on Hands on Training "Embedded C with RTOS and IoT" dated on 15.07.2019
conducted by School of Electrical Engineering





MS Sangeetha
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/ Ms KOLLUMALLA SHYAM NAGA SRI KIRAN (U16EC025) has attended Value added Course On "Embedded C with RTOS and IoT" organized by the School of Electrical Engineering, BIHER Conducted from 15-07-2019 to 19-07-2019.

Ms.S.SARAVANA
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR