Requisition Letter   **Date: 22.08.2018**

From

The HOD,

ECE Department,

Bharath Institute of Higher Education and Research,

Selaiyur, Chennai.

To

The Dean Engineering,

Bharath Institute of Higher Education and Research,

Selaiyur,Chennai.

Respected Sir,

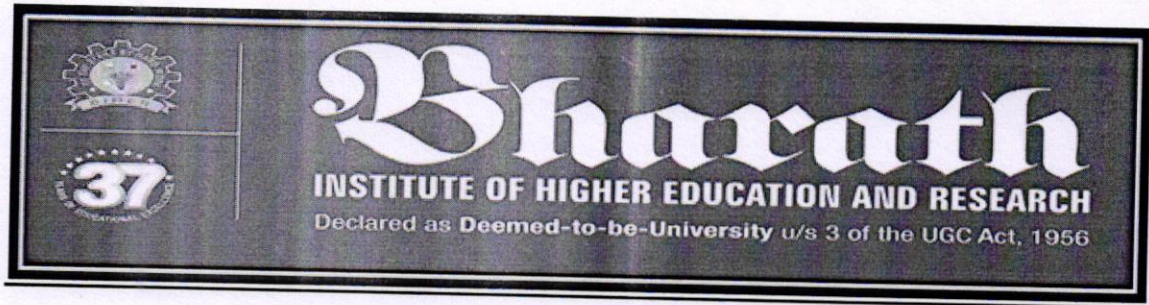SUB: Requisition for conducting Value Added Course-Regd

School of Electrical Engineering has planned to conduct Value added Course on **"Hands on Training Embedded System Design using Arduino"** on 19.09.2018. In this regard we kindly request you to grant permission for the same.

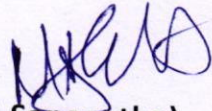Thanking you

HOD/ECE

Dean Engineering

BHARATH

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Declared as Deemed-to-be-University u/s 3 of the UGC Act, 1956

CIRCULAR

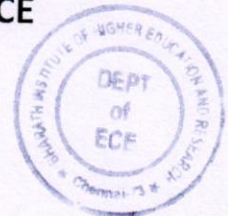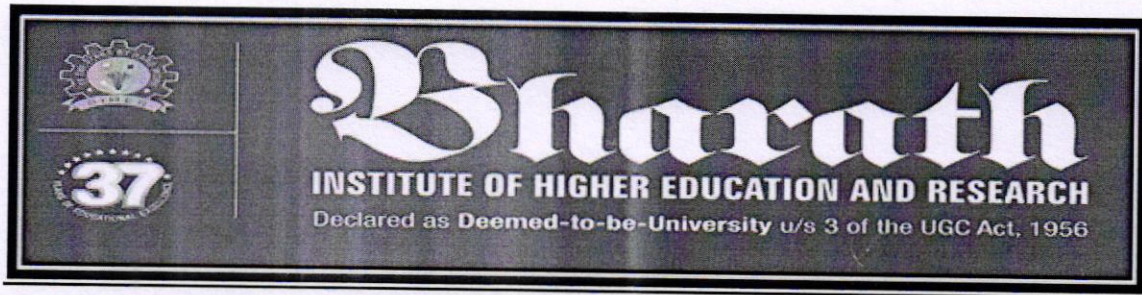## SCHOOL OF ELECTRICAL ENGINEERING

Date: 24.08.2018

The course on "**Hands on Training Embedded System Design using Arduino**" is planned by School of Electrical Engineering which commences on 19-9-2018(Wednesday).In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: B.Hemalatha
Contact No: 9841403233
Email id : hemalatha.ece@bharathuniv.ac.in

(Dr.M.Sangeetha)
HOD/ECE

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

SCHOOL OF ELECTRICAL ENGINEERING

Value Added Courses (2018 -2019)

Hands on Training Embedded System Design using Arduino

Course Objective

An embedded system is a combination of hardware and software provided that both should be synchronized with each other. Some examples are as follows: industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines etc. The Arduino is an open-source computer hardware/software platform for building digital devices and interactive objects that can sense and control the physical world around them. In this course students will learn how the Arduino platform works in terms of the physical board and libraries and the IDE (Integrated Development Environment). The course will also cover programming the Arduino using C code and accessing the pins on the board via the software to control external devices.
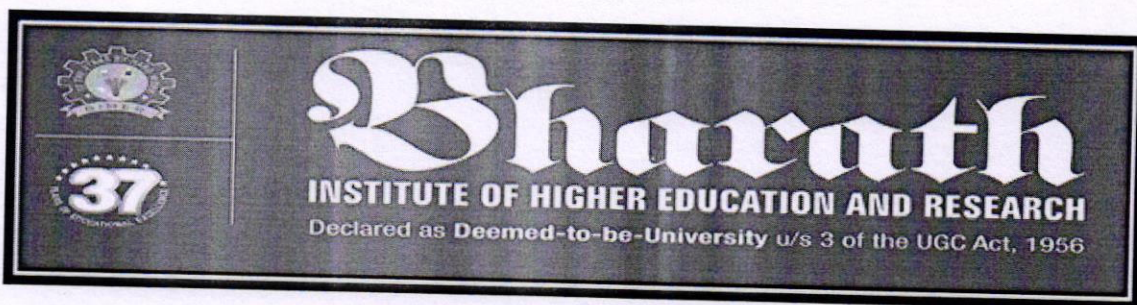
Resource Persons :

1. Dr.B.Karthik

2.Ms. M.Sowmiya Manoj

3.Ms.K.Subbhulakshmi

Convener

Dr.M.Sangeetha

HOD/ECE

SCHOOL OF ELECTRICAL ENGINEERING

"Hands on Training Embedded System Design using Arduino"

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
19-9-2018	FN	9.00 am to 12.30 pm	Embedded System, Main Components of Embedded Systems, Constraints of Embedded System, Power dissipation	Ms. M.Sowmiya Manoj
	AN	1.30 pm to 4 pm	Embedded System Classifications(Small Scale, Medium Scale, Sophisticated) and its Components	Dr.B.Karthik
20-9-2018	FN	9.00 am to 12.30 pm	Processors: General purpose, Single purpose, Application Specific, Concepts of microprocessor and microcontroller, and other Elements of Embedded System	Ms. M.Sowmiya Manoj
	AN	1.30 pm to 4 pm	Program/Software/Simulator/Compiler and their applications within Embedded Systems.	Ms.K.Subbhulakshmi
21-9-2018	FN	9.00 am to 12.30 pm	Microcontrollers, Programming Microcontrollers, Arduino Platform, The Boards, The Anatomy of an Arduino Board, The Development Environment, Learning about Analog, Digital, Power, Other Pins, External/USB power supply, reset button, and other components of Arduino Board	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Learning the standard library(13 default) of Arduino, Arduino Development Environment: Arduino Software, Different menus and Serial Monitor of Arduino IDE, Acquiring the skills for writing Arduino Sketches, working with examples, Interfacing some led, switch,	Ms.K.Subbhulakshmi

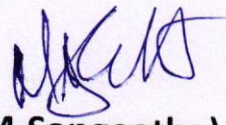|			Potentiometer with Arduino	
22-9-2018	FN	9.00 am to 12.30 pm	Sensors Work, Analog and Digital Sensors, Pull-Up/Down resistors and Examples of sensors	Ms. M.Sowmiya Manoj
	AN	1.30 pm to 5 pm	Connecting different sensors such as: Humidity, Heat/Temperature, proximity, IR Motion, Accelerometer, Sound , Light, distance, Pressure, Thermal, Infrared, LDR etc. to Arudino Board	Dr.B.Karthik
24-9-2018	FN	9.00 am to 12.30 pm	Actuators, Relay Switch, Servo Motor, Putting Things Together, Sensing the World, Reading from Analog Sensors	Ms.K.Subbhulakshmi
	AN	1.30 pm to 5 pm	Analog and Digital Sensors, Pull-Up/Down resistors and Examples of sensors , Connecting different sensors such as: Humidity, Heat/Temperature, proximity, IR, Motion, Accelerometer, Sound , Light, distance, Pressure, Thermal, Infrared, LDR etc. to Arudino Board	Dr.B.Karthik

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

## "Hands on Training Embedded System Design using Arduino"
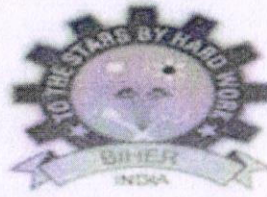
List Of Participants

Date: 19.09.2018

Sl.No	REG.N0	NAME OF THE CANDIDATE
1.	U13EC011	BALRAM YADAV
2.	U13EC012	CLIFFORD JOSEPH A
3.	U13EC015	DEEPAN R
4.	U14EC011	R AMULYA
5.	U14EC016	ARCHANA.R
6.	U13EC019	G RAHUL REDDY
7.	U13EC021	JAYED AHMED LASKAR
8.	U13EC023	KUMARI PRIYANKA
9.	U13EC024	MD ANIS
10.	U13EC028	NAVEEN KANNAN N
11.	U13EC029	NIRAJ KUMAR
12.	U13EC030	P PRAVEEN
13.	U13EC035	RAVIKANT SINGH
14.	U13EC038	SHRUTHI T S
15.	U13EC040	SUKANTO SHARAN
16.	U13EC048	BHUVANAPRIYA R
17.	U13EC501	BALACHANDER S.P
18.	U13EC503	M AKSHAY REDDY
19.	U13EC504	VIGNESH M
20.	U13EC702	SUGENTHAN .T
21.	U14EC006	ADDUGALA RAMA DEVI
22.	U14EC008	ADIREDDY PRAVEEN
23.	U14EC010	AMARJEET KUMAR
24.	U14EC011	R AMULYA
25.	U14EC013	ANKIT KAUSHAL
26.	U14EC014	ANNAPANENI VAMSIDHAR
27.	U14EC018	BANKIM CHANDRA BHARTI
28.	U14EC020	BETHALA MOURYA
29.	U14EC021	BOJJA. VENKATA PRASAD
30.	U14EC171	E PARVATHI.
31.	U14EC502	NAZISH HUSSAIN L

32.	U14EC507	DESINGURAJAN RAJKUMAR
33.	U14EC508	CHARITHA P P
34.	U14EC513	RAGULKANTH A
35.	U14EC601	SOLOMON RAJA K
36.	U14EC701	MANIVANNAN S.
37.	U14EC703	SAKTHIKUMARAN R K
38.	U14EC704	PRAWINRAJ H
39.	U14EC706	SURAJ SAH
40.	U14EE024	NAINA MOHAMMED
41.	U14EE031	PINNAMANENI PRAVEEN KUMAR
42.	U14EE041	RINU ANTONY
43.	U13EE050	SYED JASIM N H
44.	U13EE501	PARTHIBAN.P

(Dr.M.Sangeetha)

HOD/ECE
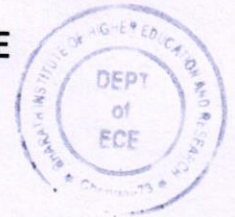
Bharath

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

NAAC

ABET

SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms **RAVIKANT SINGH (U13EC035)**

has attended Value added Course On *"Hands on Training Embedded*

System Design using Arduino" organized by the School of Electrical

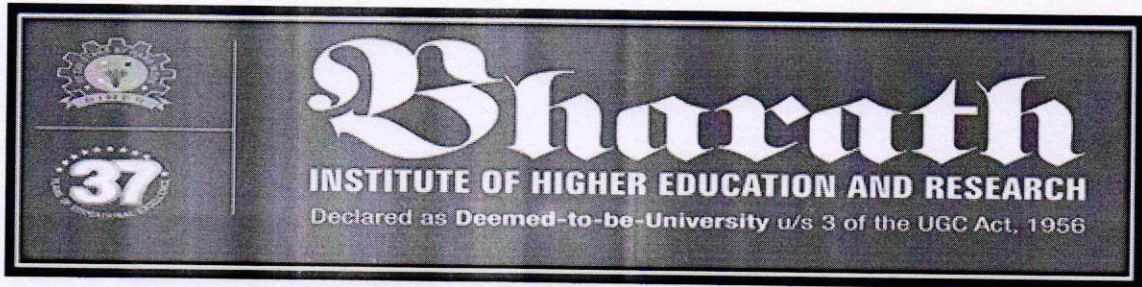Engineering, **BIHER** conducted from **19-09-2018 to 24-09-2018**.

B.ch—l—lt

B.HEMALATHA
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training Embedded System Design using Arduino

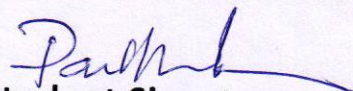| FEED BACK FORM					Date: 24-9-2018
Name	Bhuvanapriya				
Register number	VI3EC048				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
TheSpeaker				✓	
Audio,Visual Aids Technology used				✓	
Presentation hand outs					✓

Student Signature
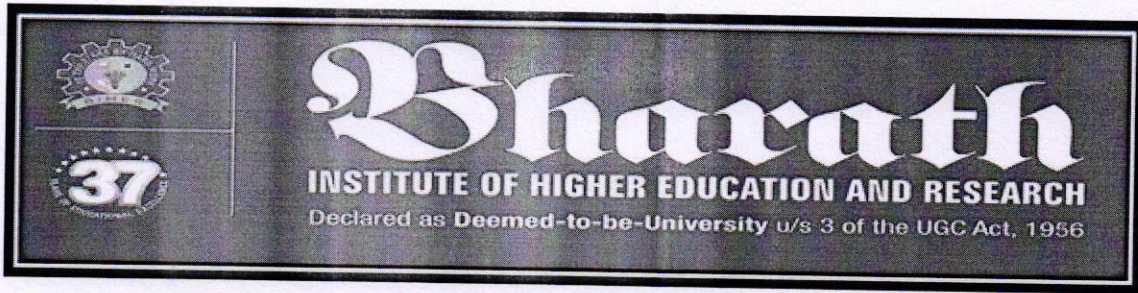
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training Embedded System Design using Arduino

FEED BACK FORM					Date: 24-9-2018
Name	PARTHIBAN . P				
Register number	U13EE501				
	Poor	**Fair**	**Good**	**Very Good**	**Excellent**
Overall Program					✓
TheSpeaker					✓
Audio,Visual Aids Technology used					✓
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Student Signature
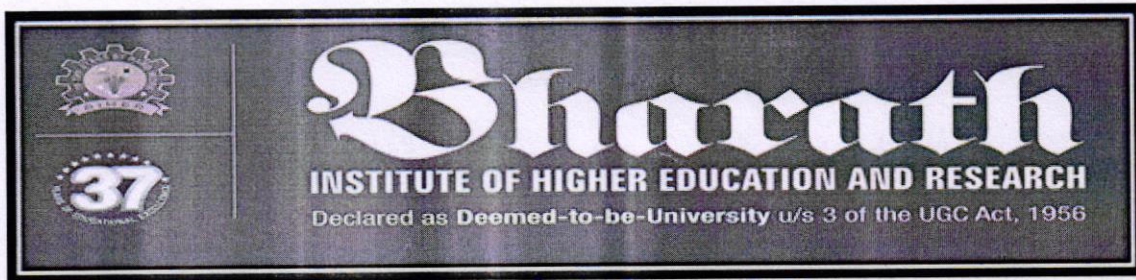
SCHOOL OF ELECTRICAL ENGINEERING

Course on **"Hands on Training Embedded System Design using Arduino"** dated on 19.09.2018 conducted by school of Electrical Engineering