

## SCHOOL OF ELECTRICAL ENGINEERING

Value Added Courses (2019 -2020)

Certificate Course on Hands-on training on Raspberry PI

### Course Objective

This course elucidates concepts related to the Internet of Things. The students will get hands-on experience in working with Raspberry Pi 3 and exploring IoT. The Raspberry Pi is a tiny, inexpensive computer that can unlock big possibilities. In this course, kick-start your journey into the world of physical computing by learning how to set up, configure, and experiment with a Raspberry Pi. Mark Niemann-Ross discusses the equipment required to run your Pi, sharing how to select a monitor, memory card, and keyboard, among other accessories. He discusses how to boot up your Pi, explore basic electronics with the different General Purpose Input-Output (GPIO) pins and learn how to set up and work with the Raspberry Pi Camera Module..

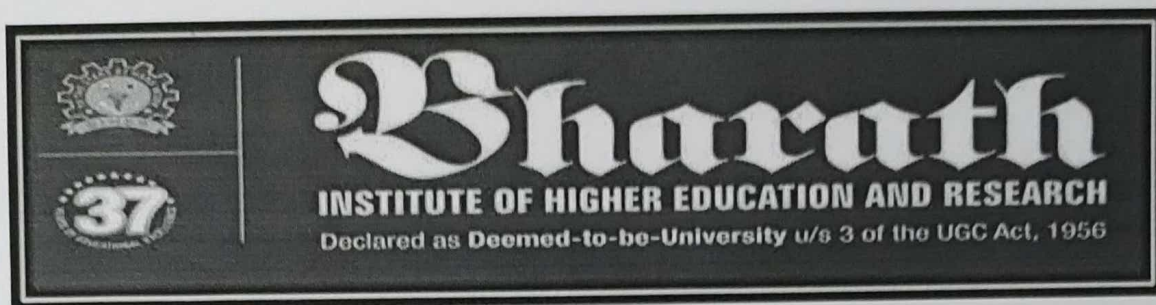
#### **Resource Persons :**

- 1.Mr.B.Karthick
- 2.Ms.M.Jasmin
- 3.Ms.G.Kanagavalli

**Convener:**

**Dr.M.Sangeetha**

**HOD/ECE**



## Requisition Letter

**Date: 25.09.2019**

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,

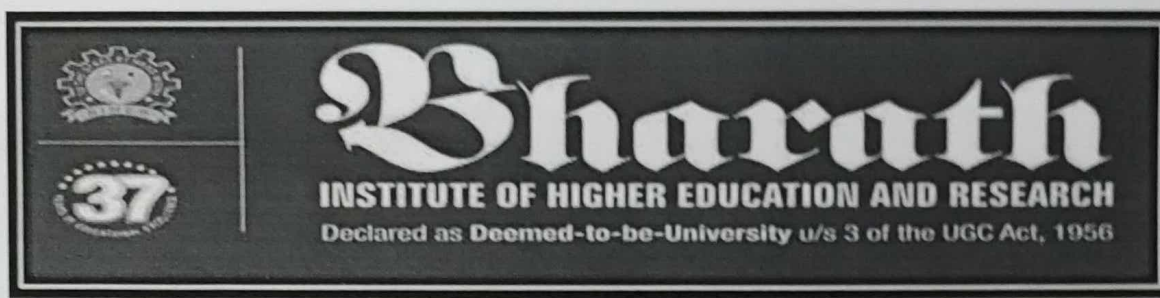
SUB: Requisition for conducting Value Added Course-Regd

School of Electrical Engineering has planned to conduct Value added Course on "Certificate Course on Hands-on training on Raspberry PI" on 14.10.2019. In this regard, we kindly request you to grant permission for the same.

Thanking you

HOD/ECE

Dean Engineering



## CIRCULAR

### SCHOOL OF ELECTRICAL ENGINEERING

**Date: 9.10.2019**

The course on "Certificate Course on Hands-on training on Raspberry PI "is planned by the School of Electrical Engineering which commences on 14-10-2019 In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefits for the certified course.

**Course Coordinator: Kalaiselvi B**

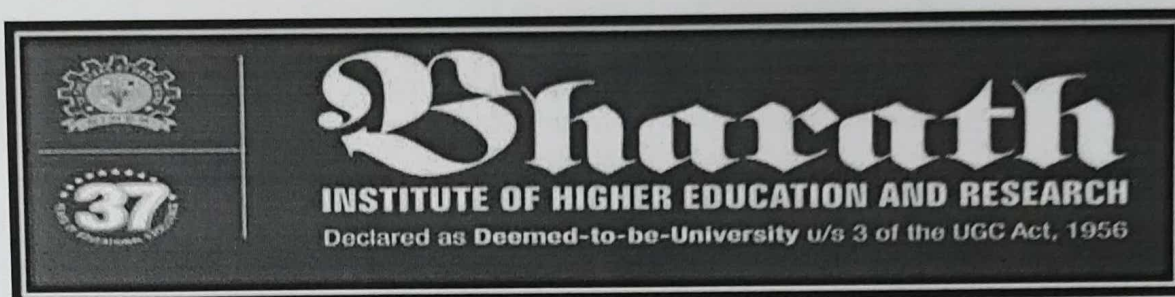
**Contact No: 9444649010**

**Email id: kalaiselvi.ece@bharathuniv.ac.in**

**HOD/ECE**

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





## SCHOOL OF ELECTRICAL ENGINEERING

### Certificate Course on Hands on training on Raspberry PI

#### SCHEDULE

**Contact Hours: 32 hrs**

DATE	SESSION	Contact Hours	TOPICS	Resource person
14-10-2019	FN	9.00 am to 12.30 pm	Overview of IoT Understanding IoT fundamental IOT Architecture, protocols Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies.	.Ms.M.Jasmin
	AN	1.30 pm to 4 pm	Introduction to Raspberry Pi Comparison of various Rpi Models. Understanding SoC architecture and SoCs used in Raspberry Pi.	Ms.G.Kanagavalli
15-10-2019	FN	9.00 am to 12.30 pm	Pin Description of Raspberry Pi On-board components of Rpi. Projects using Raspberry Pi.	Mr.B.Karthick
	AN	1.30 pm to 4 pm	Bootting Up RPi- Operating System and Linux Commands. Linux- Introduction, Architecture, File System Raspbian O.S.- Introduction, Tools like Leafpad Editor	Ms.G.Kanagavalli
16-10-2019	FN	9.00 am to 12.30 pm	Installing Raspbian on Pi First boot and Basic Configuration of Pi	.Ms.M.Jasmin

	AN	1.30 pm to 4 pm	Popular Linux Commands. Working with RPi using Python and Sensing Data using Python	.Mr.B.Karthick
17-10-2019	FN	9.00 am to 12.30 pm	Introduction, Python vs. Other Languages, Applications of Python Understanding Python, Interpreted Languages Variables, Keywords, Operators and Operands	Ms.G.Kanagavalli
	AN	1.30 pm to 5 pm	Data Types in Python, Importing Libraries Flow Control, Conditional Statement, Loops. Sensors Interfacing- Temperature and Humidity Sensor (DHT11), Motion Sensor. (PIR), Obstacle detection using Ultrasonic sensors, etc.	Ms.G.Kanagavalli
18-10-2019	FN	9.00 am to 12.30 pm	Communicating using RPi- GSM interfacing, Accessing onboard Wi-Fi Connecting Database with RPi.	.Ms.M.Jasmin
	AN	1.30 pm to 5 pm	C Language- Imbibing RPi with C C Basics- compiled language. C Concepts- data types, variables, conditional statement, loops. Library installation.	.Mr.B.Karthick

**VALUE ADDED COURSE**  
**SCHOOL OF ELECTRICAL ENGINEERING**

Certificate Course on Hands on training on Raspberry PI

**List Of Participants**

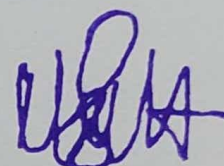
**Date: 14.10.2019**

S.NO	REG.NO	NAME OF THE CANDIDATE
1.	U16EC013	ANCHA KRISHNA REDDY
2.	U16EC014	BUGUDI RAMU
3.	U16EC015	GANJI BHARATHCHANDRA
4.	U16EC016	KATIKERI VENKATESH
5.	U16EC017	KOWSALYA K
6.	U16EC018	UNNAM SIVA KRISHNA
7.	U16EC020	RAUSHAN KUMAR
8.	U16EC021	ALIVELI CHARAN SAI
9.	U16EC022	BASIMALLA MARK RATNA BOSE
10.	U16EC023	THATIKONDA PREM SAI
11.	U16EC024	DASINENI ANUSHA
12.	U16EC025	KOLLUMALLA SHYAM NAGA SRI KIRAN
13.	U16EC026	SUNKU RAM NAVI CHAND
14.	U16EC027	J P HIMAVANTH
15.	U16EC028	THIRIVEEDI SUBBAMMA
16.	U16EC029	PEMMASANI KAVYA
17.	U16EC030	KAMASANI JYOTHI PRAKASH REDDY
18.	U16EC031	PEDINEEDI NAGARJUNA
19.	U16EC032	YANAMALA SREEKANTH REDDY
20.	U16EC033	MOTE KEERTHI
21.	U16EC034	ADDALA KRISHNA VAMSI
22.	U16EC035	GOKARAJU AJAY BABU
23.	U16EC036	MANE CHANDRAKANTH
24.	U16EC037	SANNUTHI VINAY NAGA PRANEETH



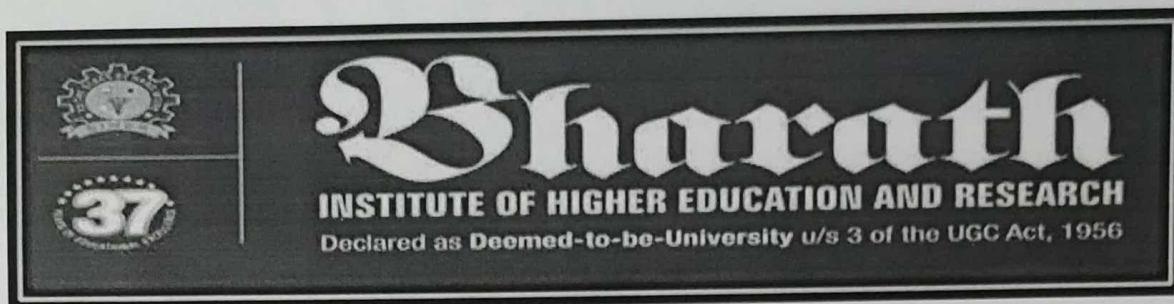
25.	U16EC038	TELLAMEKALA PRADEEP KUMAR
26.	U16EC039	MATTAPALLI SAI SRIKANTH YADAV
27.	U16EC040	PULI NAGANATH REDDY
28.	U16EC041	KOTTRA ANUSHA GOUD
29.	U16EC042	K RADHAKRISHNA
30.	U16EC043	KAPULURI MARUTHI RAO
31.	U16EC044	RAMPRASATH T
32.	U16EC045	KAPULURI VENKATESWARLU
33.	U16EC046	MUNGARA SRIHARIBABU
34.	U16EC047	VEMULA SIVA SANKAR VARAPRASAD
35.	U16EC048	GUDLURU SUMANTH
36.	U16EC049	KUCHULA SAIKUMAR REDDY
37.	U16EC050	KOTA VENKATA SIVA PRASAD REDDY
38.	U16EC051	GANGASANI SAI NANDA GOPAL REDDY
39.	U16EC052	POKALA SUDHARSHAN REDDY
40.	U16EC053	CHINTALA GANESH
41.	U16EC054	TAMATAM HARSHAK REDDY
42.	U16EC055	M DURGAPRASAD
43.	U16EC056	YANDRA SAI VENKAT
44.	U16EC057	AKASH KUMAR C
45.	U16EC058	BHASHAKARLA GOPIKRISHNA
46.	U16EC059	MADDIBOINA GIRI BABU
47.	U16EC060	MASANAM TARUN
48.	U16EC061	N E ANIL KUMAR
49.	U16EC062	KALLURI RAMA KSRISHNA
50.	U16EC063	YALAMANDALA SANDHYA
51.	U16EC064	RACHARLA VENKATNARAYAN
52.	U16EC065	A MAHESH
53.	U16EC066	MARAMREDDY MURALI MOHAN
54.	U16EC067	JIJJARAPU SHIVA
55.	U16EC068	DINESH D
56.	U16EC069	BURLA MALLIKHARJUNA REDDY
57.	U16EC070	KATNAM SAIKUMAR
58.	U16EC071	YANAMALA VASU
59.	U16EC073	IMMADI KARTHIK
60.	U16EC074	VEMIREDDY NARASA REDDY
61.	U16EC075	MANGISHETTI RAVALI
62.	U16EC076	KOMMINENI DHARANI
63.	U16EC077	KAVALA HARI HARSHAVARDHAN

64.	U16EC078	VEMULA BHARATH
65.	U16EC079	POTHURAJU VENKATA NAGA SUBRAMANYAM
66.	U16EC080	SEELAM VISWANATH
67.	U16EC082	ABHISHEK RANJAN
68.	U16EC084	K VISHNU
69.	U16EC085	AJITH A K
70.	U16EC086	SUNDAR BORO
71.	U16EC087	MOHAMMED MARUF KHAN A
72.	U16EC088	TAMILARASAN N
73.	U16EC089	SARASWATHI REDDY SREE PHANI MONISH
74.	U16EC501	NANDIPATI AJAY REDDY
75.	U16EC503	L JEEVAN SAI KUMAR REDDY



**HOD/ECE**





## SCHOOL OF ELECTRICAL ENGINEERING

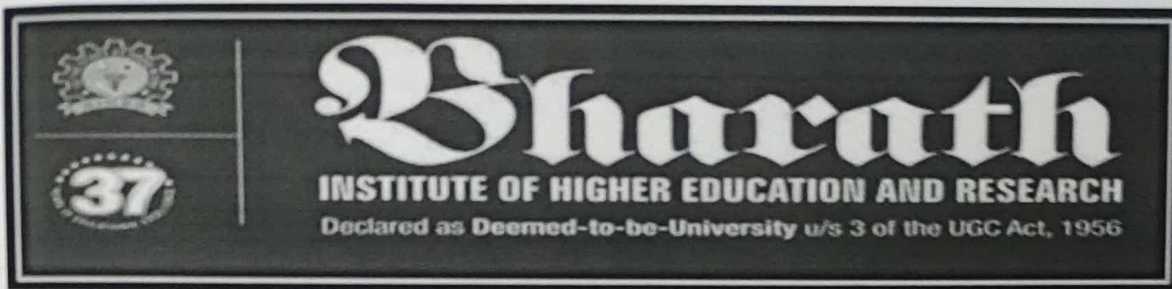
### VALUE ADDED COURSE

Certificate Course on Hands-on training on Raspberry PI

”

FEEDBACK FORM					Date: 18-10-2019
Name	A. MAHESH				
Register number	U16EC065				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation handouts				✓	

*maghesh*  
Student Signature



## SCHOOL OF ELECTRICAL ENGINEERING

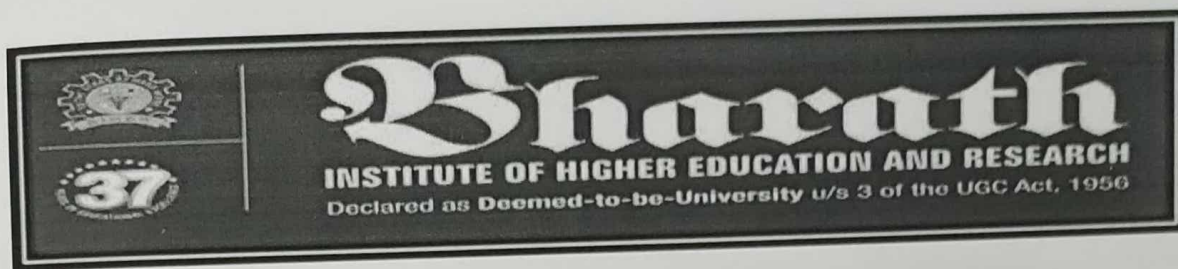
### VALUE-ADDED COURSE

Certificate Course on Hands-on training on Raspberry PI

”

FEEDBACK FORM		Date 18.10.2019			
Name	KATNAM SAIKUMAR				
Register number	U16EC070				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	

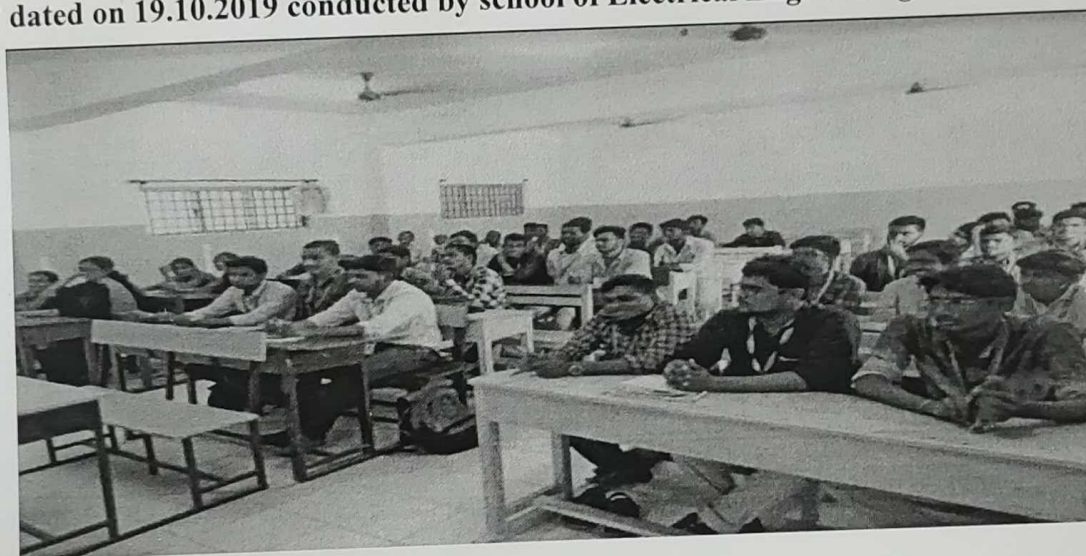
*Katnam Saikumar*  
Student Signature



## SCHOOL OF ELECTRICAL ENGINEERING

Course on "Certificate Course on Hands on training on Raspberry PI

" dated on 19.10.2019 conducted by school of Electrical Engineering







**sharath**  
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. **MOTE KEERTHI** has attended Values added Course on "Certificate Course on Hands-on Training on Raspberry Pi" Organized by the School of Electrical Engineering, BIHER conducted on 14.10.2019 to 18.10.2019

Ms KALAISELVI B

COURSE COORDINATOR

Dr.M.SANGEETHA

CONVENOR