



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 10.6.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **“Control of power converters using Digital Signal Processor”** -Reg

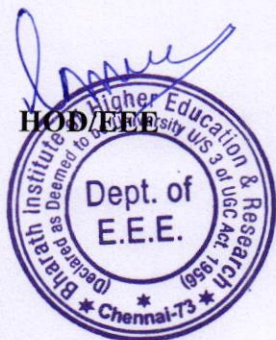
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **“Control of power converters using Digital Signal Processor”** in our campus premises on **4/7/2018**.

Mr. S.K. Mohamed Aslam, OHM Energy Management System Pvt Ltd, Chennai would deliver lecture for the above mentioned course. 45 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.



DEAN ENGINEERING



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

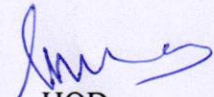
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

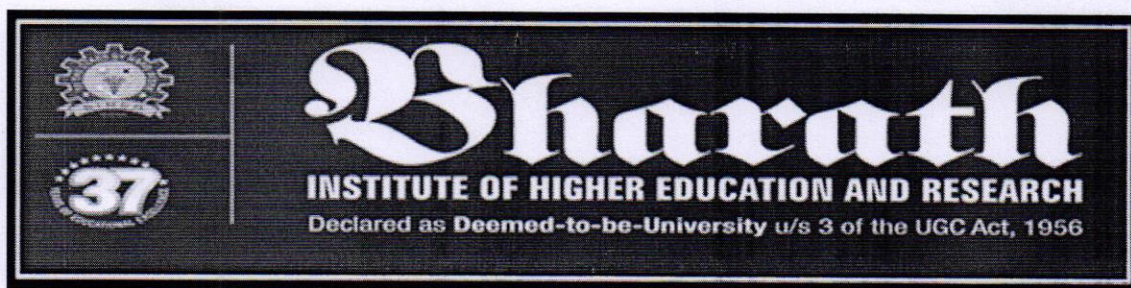
Date: 12.6.18

A value added course on “Control of power converters using Digital Signal Processor” is planned by the School of Electrical Engineering on 4/7/2018. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 29.6.2018. Course commences on 24.07.2017 and it would be conducted for five days (4/7/2018 to 8/7/2018) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

CONTROL OF POWER CONVERTERS USING DSP PROCESSOR

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
4.7.2018	FN	9.00 am to 12.30 pm	Introduction to Digital Power Supply Design	Mr. S.K. Mohamed Aslam
	AN	1.30 pm to 4 pm	Hands on Training: Exploring the Development Environment Navigate CCS features Understand DPS library structure Generate and visualize PWM waveforms	Mr. S.K. Mohamed Aslam
5.7.2018	FN	9.00 am to 12.30 pm	Driving the Power Stage with PWM Waveforms Open-Loop System Block Diagram Generating PWM using the ePWM Module Power Stage Topologies and Software Library Support	Dr.T.R.Rangaswamy
	AN	1.30 pm to 4 pm	Hands on Training: PWM Generation / Open-Loop Control	Dr.T.R.Rangaswamy
6.7.2018	FN	9.00 am to 12.30 pm	Controlling the Power Stage with Feedback Closed-Loop System Block Diagram ADC Module Block Diagram Digital Control of Power Converter	Dr.S.Prakash

			High-Resolution PWM Benefits. Soft Start – Starting the Loop	
	AN	1.30 pm to 4 pm	Hands on Training: Closed-Loop Control	Dr.S.Prakash
7.7.2018	FN	9.00 am to 12.30 pm	Tuning the Loop for Good Transient Response Digital Power Supply Control Theory Intuitive Loop Tuning – “Visually without Math Active Load Feature of the Power EVM	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 5 pm	Hands on Training: Tuning the Loop Multi-Loop Control.....	Dr.S.P.Vijayaragavan
8.7.2018	FN	9.00 am to 12.30 pm	Tl Digital Power Products C2000 Digital Signal Controller Family	Dr.V.Jayalakshmi
	AN	1.30 pm to 5 pm	Hands on Training: UCD9xxx Digital Power Controller Family	Dr.V.Jayalakshmi



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selsayur, Chennai, T.N - 600 073.

The following students attended Three days' workshop on "Control of power converters using Digital Signal Processor" On (4/7/2018 to 8/7/2018) conducted by OHM Energy Management System Pvt Ltd, Chennai Live wire Pvt Ltd, Chennai.

S.No	Register No	Name of the student	Signature of the Student				
			4.7.2018	5.7.2018	6.7.2018	7.7.2018	8.7.2018
1.	U15EE001	ADITYA RAJ					
2.	U15EE002	AMBATI VENKATA REDDY					
3.	U15EE003	ARUNAVA ROY					
4.	U15EE004	BACHU VENKAT SAI					
5.	U15EE005	BHARATHI TIPPAGIUDESE					
6.	U15EE006	BHUMIREDDY OM SEKHAR REDDY					
7.	U15EE008	DHANUSH B					
8.	U15EE009	DUDEKULA ANWAR BASHA					
9.	U15EE010	EEGA RAMESH					
10.	U15EE011	GODDUMARRI PRUTHVIRAJ					
11.	U15EE012	GOWTHAM K					
12.	U15EE013	HEMANT KUMAR SAHU					
13.	U15EE014	JATAVATH SURESH					

14.	U15EE015	JAYANT KUMAR	fn	fn	fn	fn	fn
15.	U15EE001	ADITYA RAJ	Andu	Andu	Andu	Andu	Andu
16.	U15EE018	LOKESH KUMAR M	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh
17.	U15EE019	MD ASIF	Asif	Asif	Asif	Asif	Asif
18.	U15EE020	MOHAMED GHIYASUDEEN J	gh	gh	gh	gh	gh
19.	U15EE021	MUTHUKUMARAN G	Muthu	Muthu	Muthu	Muthu	Muthu
20.	U15EE022	NANDAN KUMAR	Nan	Nan	Nan	Nan	Nan
21.	U15EE024	POTTA SYAM KUMAR	Syam	Syam	Syam	Syam	Syam
22.	U15EE025	PRAMOD KUMAR GHOSH	Pram	Pram	Pram	Pram	Pram
23.	U15EE026	PRASHANT KUMAR PANDEY	Prasen	Prasen	Prasen	Prasen	Prasen
24.	U15EE027	PUGAZANTHI A	Pugazanthi	Pugazanthi	Pugazanthi	Pugazanthi	Pugazanthi
25.	U15EE028	SENTHAMIL SELVAN K	Senthil	Senthil	Senthil	Senthil	Senthil
26.	U15EE029	SONU KUMAR SUMAN	Sonu	Sonu	Sonu	Sonu	Sonu
27.	U15EC502	KRITHIKA B	Kritika	Kritika	Kritika	Kritika	Kritika
28.	U15EC503	CHEEMALA MADHULIKA	Madhu	Madhu	Madhu	Madhu	Madhu
29.	U15EC504	TALLA PRAMOD KUMAR REDDY	Pram	Pram	Pram	Pram	Pram
30.	U15EC505	THOTA SRIHARI	Srihar	Srihar	Srihar	Srihar	Srihar
31.	U15EC506	RAYAPUREDDY PRANAY REDDY	Pram	Pram	Pram	Pram	Pram
32.	U15EC507	YALAMANCHI VENKATA SAI PRASAD	Venkat Sai	Venkat Sai	Venkat Sai	Venkat Sai	Venkat Sai
33.	U15EC508	PULICHARLA YUGANDHAR	Yugan	Yugan	Yugan	Yugan	Yugan
34.	U15EC509	NAVIN SANKAR S	Navin	Navin	Navin	Navin	Navin
35.	U15EC510	SRIRAM GANES S	Sriram	Sriram	Sriram	Sriram	Sriram
36.	U15EC511	GALLA BALAJI	Balaji	Balaji	Balaji	Balaji	Balaji

37.	U15EC512	VENKATA SATYA NAGA PAVAN SIVA KUMAR M	<i>sn</i>	<i>sn</i>	<i>sn</i>	<i>sn</i>	<i>sn</i>
38.	U15EC514	PRAVEEN KUMAR S	<i>Pks</i>	<i>Pks</i>	<i>Pks</i>	<i>Pks</i>	<i>Pks</i>
39.	U15EC515	P NITHIN KRISHNA	<i>P. nith</i>	<i>P. nith</i>	<i>P. nith</i>	<i>P. nith</i>	<i>P. nith</i>
40.	U15EC516	THIRUKUMARAN R	<i>Thiruk</i>	<i>Thiruk</i>	<i>Thiruk</i>	<i>Thiruk</i>	<i>Thiruk</i>
41.	U15EC517	BARATH D	<i>Bhath</i>	<i>Bhath</i>	<i>Bhath</i>	<i>Bhath</i>	<i>Bhath</i>
42.	U15EC518	ALICATTA AVINASH	<i>Alicat</i>	<i>Alicat</i>	<i>Alicat</i>	<i>Alicat</i>	<i>- AB -</i>
43.	U15EC519	C BHARATHRAJ	<i>C. Bhar</i>	<i>C. Bhar</i>	<i>C. Bhar</i>	<i>C. Bhar</i>	<i>C. Bhar</i>
44.	U15EC520	AKSHAY B	<i>Aksh</i>	<i>- AB -</i>	<i>Aksh</i>	<i>Aksh</i>	<i>Aksh</i>
45.	U15EC521	NAGA MEGASIVA VARDHAN REDDY	<i>vardh</i>	<i>vardh</i>	<i>vardh</i>	<i>vardh</i>	<i>vardh</i>

[Signature]
Signature of HOD



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



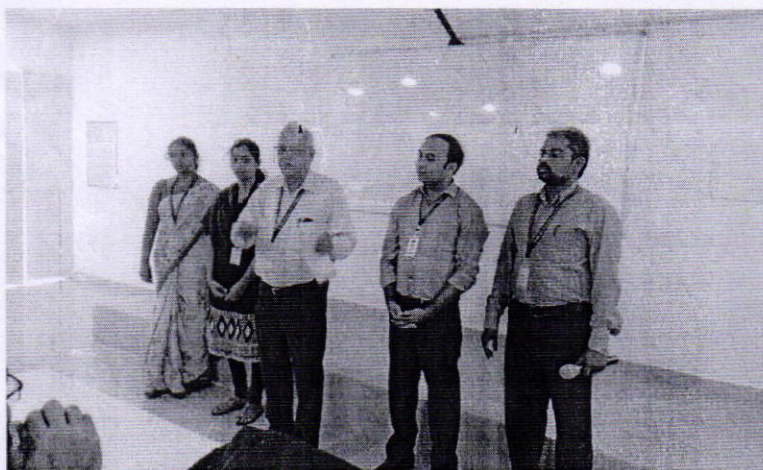
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Control of power converters using Digital Signal Processor by Mr. S.K. Mohamed Aslam, OHM Energy Management System Pvt Ltd, Chennai on 4-7-2018





Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



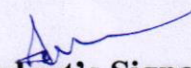
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Control of power converters using Digital Signal Processor

FEEDBACK FORM					Date: 8/7/2018	
Name	Adithya Raj					
Register Number	V15EE001					
Phone Number						
Email address						
	Poor	Fair	Good	Very Good	Excellent	
Overall Program				✓		
Resource person					✓	
Audio visual aids & Technology used					✓	
Presentation Handouts					✓	


Student's Signature



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Control of power converters using Digital Signal Processor

FEEDBACK FORM					Date: 8/7/2018
Name	Vijayalakshmi Galla Rajesh				
Register Number	U15EC511				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person				✓	
Audio visual aids & Technology used					✓
Presentation Handouts					✓

Galla Rajesh

Student's Signature



Bharath

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 **DHANUSH. P (U15EE008)**

has attended Value added Course On “*Control of power converters using Digital Signal Processor*” organized by the School of Electrical Engineering, BIHER conducted from **4/7/2018 to 8/7/2018**.


COURSE COORDINATOR


CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 8.7.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on “**Arduino and Raspberry based closed loop Systems**” -Reg

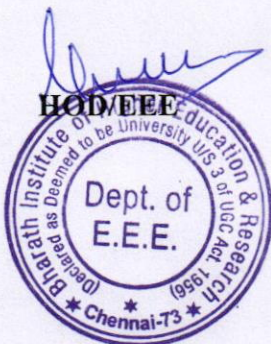
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **Arduino and Raspberry based closed loop Systems**” in our campus premises on **2.8.18**.

Mr. S.Saravanan, Powertech Solutions, Chennai, would deliver lecture for the above mentioned course. 59 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.




DEAN ENGINEERING



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



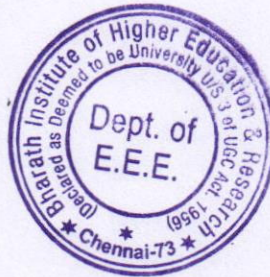
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

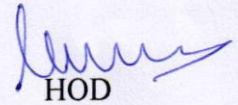
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

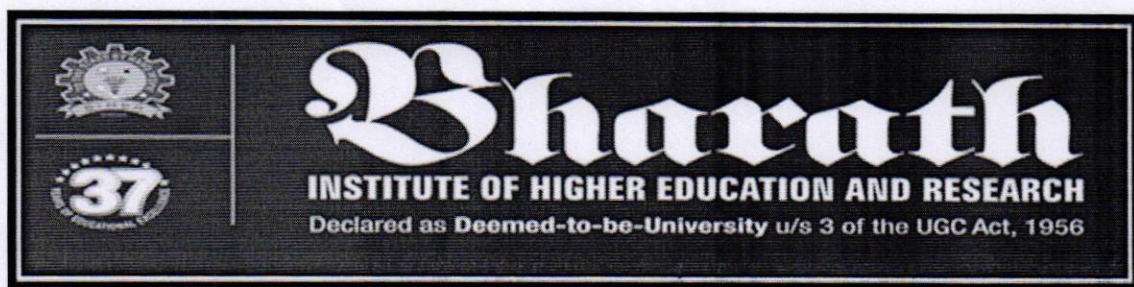
Date: 10.7.18

A value added course on “Arduino and Raspberry based closed loop Systems” is planned by the School of Electrical Engineering on 2/8/2018. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 27.7.2018. Course commences on 2.08.2018 and it would be conducted for five days (2/8/2018 to 6/8/2018) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

Arduino and Raspberry Based Closed Loop Systems

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
2.8.2018	FN	9.00 am to 12.30 pm	Android-About Android and about ADT	Mr. S.Saravanan
	AN	1.30 pm to 4 pm	Hands on Training	Mr. S.Saravanan
3.8.2018	FN	9.00 am to 12.30 pm	Android Project Architecture	Dr.S.Prakash
	AN	1.30 pm to 4 pm	Hands on Training	Dr.S.Prakash
4.8.2018	FN	9.00 am to 12.30 pm	Setting up AVD Using Widgets	Mrs.Anitha Sampathkumar
	AN	1.30 pm to 4 pm	Hands on Training	Mrs.Anitha Sampathkumar
5.8.2018	FN	9.00 am to 12.30 pm	Button Activity	Dr.T.R.Rangaswamy
	AN	1.30 pm to 5 pm	Hands on Training	Dr.T.R.Rangaswamy
6.8.2018	FN	9.00 am to 12.30 pm	Simple Quiz Application Importing Music Files	Mrs.S.Sherine
	AN	1.30 pm to 5 pm	Hands on Training	Mrs.S.Sherine



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai - 600 073.

The following students attended Three days' workshop on "Arduino and Raspberry based closed loop Systems" On (2/8/2018 to 6/8/2018) conducted by Powertech Solutions, Chennai,

S.No	Register No	Name of the student	Signature of the Student				
			2.8.2018	3.8.2018	4.8.2018	5.8.2018	6.8.2018
1.	U15EE031	SRIRAM S					
2.	U15EE032	SUBIN SUNIL					
3.	U15EE033	SUSANTA GHOSH					
4.	U15EE035	TOIJAM NONGKHONGKOIBA					
5.	U15EE036	UDHAYACHANDRAN R					
6.	U15EE037	USHA KUMARI					
7.	U15EE039	ZAFFER HUSSAIN HAJAM					
8.	U15EE041	PRASHANT VERMA					
9.	U15EE042	SANOJ KUMAR					
10.	U15EE043	ALAYA CHOWDHURY					
11.	U15EE044	BIRBAL PANDIT					
12.	U15EE045	SANDEEP					
13.	U15EE047	AKBAR ALAM					
14.	U15EE048	RAVINDRA KUMAR					
15.	U15EE701	RAVINDER SINGH					
16.	U15EE702	SAKTHIVEL C					

17.	U15EE703	RABIN RAJ R	Rjs	Rjs	Rjs	Rjs	Rjs
18.	U15EC503	CHEEMALA MADHULIKA	cen	cen	cen	cen	cen
19.	U15EC504	TALLA PRAMOD KUMAR REDDY	Palle	Palle	Palle	Palle	Palle
20.	U15EC505	THOTA SRIHARI	Thot gnd	th - son	th - sri	th - su	th - sri
21.	U15EC506	RAYAPUREDDY PRANAY REDDY	Radr	Radr	Radr	Radr	Radr
22.	U15EC507	YALAMANCHI VENKATA SAI PRASAD	Ven	Ven	Ven	Ven	Ven
23.	U15EC508	PULICHARLA YUGANDHAR	Pu	Pu	Pu	Pu	Pu
24.	U15EC509	NAVIN SANKAR S	Nsn	Nsn	Nsn	Nsn	Nsn
25.	U15EC510	SRIRAM GANES S	Sri	Sri	Sri	Sri	Sri
26.	U16EC008	BORA GANESH	Gns	Gns	Gns	Gns	-AB-
27.	U16EC009	MUNTA PRAVEEN KUMAR	Mn	Mn	Mn	Mn	Mn
28.	U16EC010	MATHIUKHONANG	Mn	Mn	Mn	Mn	Mn
29.	U16EC012	SANGAVI B	Surgee B	Surgee B	Surgee B	Surgee B	Surgee B
30.	U16EC013	ANCHA KRISHNA REDDY	Ancha	Ancha	Ancha	Ancha	Ancha
31.	U16EC014	BUGUDI RAMU	Ru	Ru	Ru	Ru	Ru
32.	U16EC015	GANJI BHARATHCHANDRA	Kabr	Kabr	Kabr	Kabr	Kabr
33.	U16EC016	KATIKERI VENKATESH	Kat	Kat	Kat	Kat	Kat
34.	U16EC017	KOWSALYA K	Kjs	-AB-	Kjs	Kjs	Kjs
35.	U16EC018	UNNAM SIVA KRISHNA	Unn	Unn	Unn	Unn	Unn
36.	U16EC020	RAUSHAN KUMAR	Ru	Ru	Ru	Ru	Ru
37.	U16EC021	ALIVELI CHARAN SAI	A	A	A	A	A
38.	U16EC022	BASIMALLA MARK RATNA BOSE	Ru	Ru	Ru	Ru	Ru
39.	U16EC023	THATIKONDA PREM SAI	Th	Th	Th	Th	Th

40.	U16EC024	DASINENI ANUSHA	Anus	Anus	-AB-	Anus	Anus
41.	U16EC025	KOLLUMALLA SHYAM NAGA SRI KIRAN	Kolm	Kolm	Kolm	Kolm	Kolm
42.	U16EC026	SUNKU RAM NAVI CHAND	Sun	Sun	Sun	Sun	Sun
43.	U16EC027	J P HIMAVANTH	Himv	Himv	Himv	Himv	Himv
44.	U16EC028	THIRIVEEDI SUBBAMMA	Thir	Thir	Thir	Thir	Thir
45.	U16EC029	PEMMASANI KAVYA	Kavya	Kavya	Kavya	Kavya	Kavya
46.	U16EC030	KAMASANI JYOTHI PRAKASH REDDY	Kam	Kam	Kam	Kam	Kam
47.	U16EC031	PEDINEEDI NAGARJUNA	Pedn	Pedn	Pedn	Pedn	Pedn
48.	U16EC032	YANAMALA SREEKANTH REDDY	Yan	Yan	Yan	Yan	Yan
49.	U16EC033	MOTE KEERTHI	Mote	Mote	Mote	Mote	Mote
50.	U16EC034	ADDALA KRISHNA VAMSI	Ksh	Ksh	Ksh	-AB-	Ksh
51.	U16EC035	GOKARAJU AJAY BABU	Ajay	Ajay	Ajay	Ajay	Ajay
52.	U16EC036	MANE CHANDRAKANTH	Chan	Chan	Chan	Chan	Chan
53.	U16EC037	SANNUTHI VINAY NAGA PRANEETH	Sann	Sann	Sann	Sann	Sann
54.	U16EC038	TELLAMEKALA PRADEEP KUMAR	Pendep	Pendep	Pendep	Pendep	Pendep
55.	U16EC039	MATTAPALLI SAI SRIKANTH YADAV	Sri	Sri	Sri	Sri	Sri
56.	U16EC040	PULI NAGANATH REDDY	Nan	Nan	Nan	Nan	Nan
57.	U16EC041	KOTTRA ANUSHA GOUD	Anus	Anus	Anus	Anus	Anus
58.	U16EC042	K RADHAKRISHNA	Rk	Rk	-AB-	Rk	Rk
59.	U16EC043	KAPULURI MARUTHI RAO	Mar	Mar	Mar	Mar	Mar

Signature of HOD



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



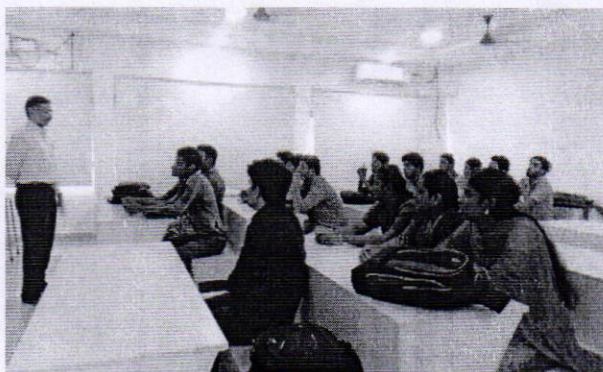
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Arduino and Raspberry based closed loop Systemsby Mr. S.Saravanan, Powertech Solutions, Chennai on 2.8.18





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Arduino and Raspberry based closed loop Systems

FEEDBACK FORM				Date: 6/8/2018	
Name	Thotta Sri Hari				
Register Number	UIS EC 505				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program		✓			
Resource person			✓		
Audio visual aids & Technology used				✓	
Presentation Handouts			✓		


Student's Signature



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

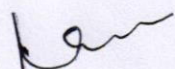


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Setaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Arduino and Raspberry based closed loop Systems

FEEDBACK FORM		Date: 6/8/2018			
Name	Narayan Sankar, S.				
Register Number	U15 EL				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person			✓		✓
Audio visual aids & Technology used					✓
Presentation Handouts				✓	


Student's Signature



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



ABET

SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms **AKBHAR ALAM (U15EE047)**

has attended Value added Course On “*Arduino and Raspberry based closed loop Systems*” organized by the School of Electrical Engineering, BIHER conducted from 2/8/2018 to 6/8/2018.

COURSE COORDINATOR

CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai . T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 14.7.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on “**General Studies for Civil Services and Competitive Exams**” -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on “**General Studies for Civil Services and Competitive Exams**” in our campus premises on **4/8/2018**.

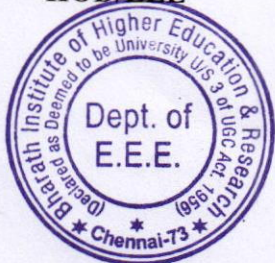
Mr. M.Shriram, ALTUS CADD Centre, Chennai, would deliver lecture for the above mentioned course. 51 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.


HOD/EEE




DEAN ENGINEERING



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

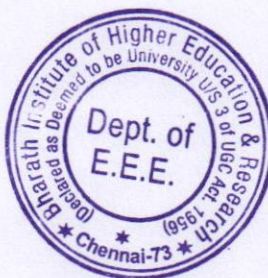
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

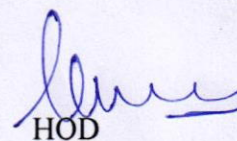
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

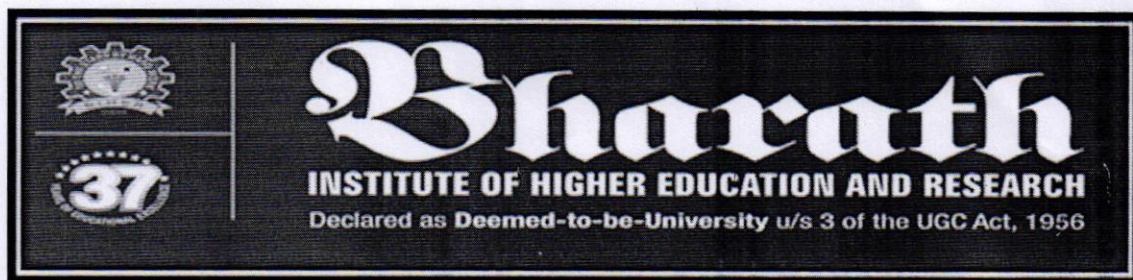
Date: 16.7.18

A value added course on “General Studies for Civil Services and Competitive Exams” is planned by the School of Electrical Engineering on 4/8/2018. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 29.8.2018. Course commences on 4.08.2018 and it would be conducted for five days (4/8/2018 to 8/8/2018) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

GENERAL STUDIES FOR CIVIL SERVICE AND COMPETITIVE EXAM

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
4.8.2018	FN	9.00 am to 12.30 pm	Ancient India Medieval India	Mr. M.Shriram
	AN	1.30 pm to 4 pm	Modern India Environmental Science Economics	Mr. M.Shriram
5.8.2018	FN	9.00 am to 12.30 pm	Chemistry Physics Biology	Dr.S.Prakash
	AN	1.30 pm to 4 pm	Geography Indian Polity	Dr.S.Prakash
6.8.2018	FN	9.00 am to 12.30 pm	Current Affairs	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 4 pm	Current Affairs	Dr.S.P.Vijayaragavan
7.8.2018	FN	9.00 am to 12.30 pm	Interpersonal Skills including Communication Skills	Dr.V.Jayalakshmi

	AN	1.30 pm to 5 pm	Logical Reasoning and Analytical Ability	Dr.V.Jayalakshmi
8.8.2018	FN	9.00 am to 12.30 pm	Decision Making and Problem Solving	Mrs.Anitha Sampathkumar
	AN	1.30 pm to 5 pm	General Mental Ability Basic Numeracy	Mrs.Anitha Sampathkumar



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.175, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

The following students attended Three days' workshop on "General Studies for Civil Services and Competitive Exams" On (4/8/2018 to 8/8/2018) conducted by

ALTUS CADD Centre, Chennai

S.No	Register No	Name of the student	Signature of the Student				
			4.8.2018	5.8.2018	6.8.2018	7.8.2018	8.8.2018
1.	U15EE001	ADITYA RAJ	<i>Aditya Raj</i>	<i>Aditya Raj</i>	<i>Aditya Raj</i>	<i>Aditya Raj</i>	<i>Aditya Raj</i>
2.	U15EE002	AMBATI VENKATA REDDY	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>
3.	U15EE003	ARUNAVA ROY	<i>Ar R</i>	<i>Ar R</i>	<i>Ar R</i>	<i>Ar R</i>	<i>-AB-</i>
4.	U15EE004	BACHU VENKAT SAI	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>	<i>Ven</i>
5.	U15EE005	BHARATHI TIPPAGIUDESE	<i>Bhar</i>	<i>Bhar</i>	<i>Bhar</i>	<i>Bhar</i>	<i>Bhar</i>
6.	U15EE006	BHUMIREDDY OM SEKHAR REDDY	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>	<i>Om</i>
7.	U15EE008	DHANUSH B	<i>Dh</i>	<i>Dh</i>	<i>-AB-</i>	<i>Dh</i>	<i>Dh</i>
8.	U15EE009	DUDEKULA ANWAR BASHA	<i>Bash</i>	<i>Bash</i>	<i>Bash</i>	<i>Bash</i>	<i>Bash</i>
9.	U15EE010	EEGA RAMESH	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>
10.	U15EE011	GODDUMARRI PRUTHVIRAJ	<i>Pri</i>	<i>Pri</i>	<i>Pri</i>	<i>Pri</i>	<i>Pri</i>
11.	U15EE012	GOWTHAM K	<i>Gowth k</i>	<i>Gowth k</i>	<i>Gowth k</i>	<i>Gowth k</i>	<i>Gowth k</i>
12.	U15EE013	HEMANT KUMAR SAHU	<i>Hem</i>	<i>Hem</i>	<i>Hem</i>	<i>Hem</i>	<i>Hem</i>
13.	U15EE014	JATAVATH SURESH	<i>Sur</i>	<i>Sur</i>	<i>Sur</i>	<i>Sur</i>	<i>Sur</i>
14.	U15EE015	JAYANT KUMAR	<i>Jay k</i>	<i>Jay k</i>	<i>Jay k</i>	<i>Jay k</i>	<i>Jay k</i>

15.	U15EE016	K THARUN KUMAR REDDY	Kun	Kun	Kun	Kun	Kun
16.	U15EE018	LOKESH KUMAR M	L kg	L kg	L kg	L kg	L kg
17.	U15EE019	MD ASIF	MD Asif	MD Asif	MD Asif	MD Asif	MD Asif
18.	U15EE020	MOHAMED GHIYASUDEEN J	Mun	Mun	Mun	Mun	Mun
19.	U15EE021	MUTHUKUMARAN G	Kun	Kun	Kun	Kun	Kun
20.	U15EE022	NANDAN KUMAR	Nan	Nan	Nan	Nan	Nan
21.	U15EE024	POTTA SYAM KUMAR	Pn	Pn	Pn	Pn	Pn
22.	U15EE025	PRAMOD KUMAR GHOSH	Pan	Pan	Pan	Pan	Pan
23.	U15EE026	PRASHANT KUMAR PANDEY	Panish	Panish	Panish	Panish	Panish
24.	U15EE027	PUGAZANTHI A	Pln	Pln	Pln	Pln	Pln
25.	U15EE028	SENTHAMIL SELVAN K	SS	SS	SS	SS	SS
26.	U15EE029	SONU KUMAR SUMAN	San	San	San	San	San
27.	U15EE030	SHRIDHAR DWIVEDI	Shid	Shid	Shid	Shid	Shid
28.	U15EE031	SRIRAM S	SuR	SuR	SuR	SuR	SuR
29.	U15EE032	SUBIN SUNIL	Subi	Subi	Subi	Subi	Subi
30.	U15EE033	SUSANTA GHOSH	Gur	Gur	Gur	Gur	Gur
31.	U15EE035	TOIJAM NONGKHONGKOIBA	Pn	Pn	Pn	Pn	Pn
32.	U15EE036	UDHAYACHANDRAN R	Uday	Uday	Uday	Uday	Uday
33.	U15EE037	USHA KUMARI	USha Kun	USha Kun	USha Kun	USha Kun	USha Kun
34.	U15EE039	ZAFFER HUSSAIN HAJAM	Zaffer	Zaffer	Zaffer	Zaffer	Zaffer
35.	U15EE041	PRASHANT VERMA	P. Verma	P. Verma	P. Verma	P. Verma	P. Verma
36.	U15EE042	SANOJ KUMAR	Sk	Sk	Sk	Sk	-AB-
37.	U15EE043	ALAYA CHOWDHURY	Alay	Alay	Alay	Alay	Alay
38.	U15EE044	BIRBAL PANDIT	Pan	Pan	Pan	Pan	Pan

39.	U15EE045	SANDEEP	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>
40.	U15EE047	AKBAR ALAM					
41.	U15EE048	RAVINDRA KUMAR	<i>R. Ravindra</i>	<i>R. Ravindra</i>	<i>R. Ravindra</i>	<i>R. Ravindra</i>	<i>R. Ravindra</i>
42.	U15EE701	RAVINDER SINGH					
43.	U15EE702	SAKTHIVEL C	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>	<i>Sd</i>
44.	U15EC511	GALLA BALAJI	<i>Kd</i>	<i>Kd</i>	<i>Kd</i>	<i>Kd</i>	<i>Kd</i>
45.	U15EC512	VENKATA SATYA NAGA PAVAN SIVA KUMAR M	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>
46.	U15EC514	PRAVEEN KUMAR S	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>
47.	U15EC515	P NITHIN KRISHNA	<i>Nithin</i>	<i>Nithin</i>	<i>Nithin</i>	<i>Nithin</i>	<i>Nithin</i>
48.	U15EC516	THIRUKUMARAN R	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>	<i>Ram</i>
49.	U15EC517	BARATH D	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>
50.	U15EC518	ALICATTA AVINASH	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>
51.	U15EC519	C BHARATHRAJ	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>	<i>Bd</i>

[Signature]
Signature of HOD



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



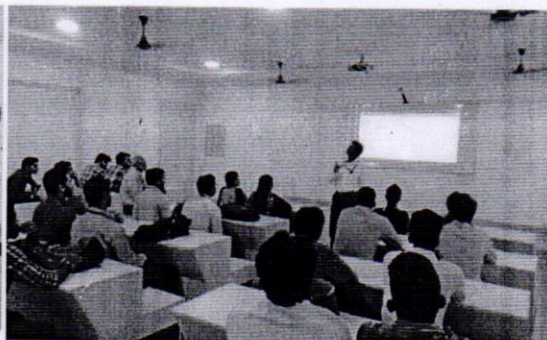
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selayur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “General Studies for Civil Services and Competitive Exams ”Mr. M.Shriram, ALTUS CADD Centre, Chennai on 4.8.18





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

**VALUE ADDED COURSE - General Studies for Civil Services and
Competitive Exams**

FEEDBACK FORM		Date: 8/8/2018			
Name	Gnantham . K .				
Register Number	U15EE 012				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person		✓			
Audio visual aids & Technology used			✓		
Presentation Handouts			✓		

Student's Signature



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

**VALUE ADDED COURSE - General Studies for Civil Services and
Competitive Exams**

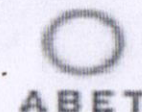
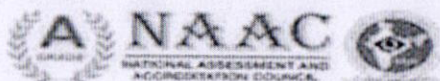
FEEDBACK FORM		Date: 8/8/2018			
Name	MD. ASIF				
Register Number	U15EE019				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program		✓			
Resource person			✓		
Audio visual aids & Technology used				✓	
Presentation Handouts		✓			


Student's Signature



Bharath

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 K.GOWTHAM (U15EE012)
has attended Value added Course On “*General Studies for Civil Services and
Competitive Exams*” organized by the School of Electrical Engineering,
BIHER conducted from 4/8/2018 to 8/8/2018.

COURSE COORDINATOR

CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 6.10.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on “Automation using PLC and SCADA” -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on “Automation using PLC and SCADA” in our campus premises on **1.11.18**.

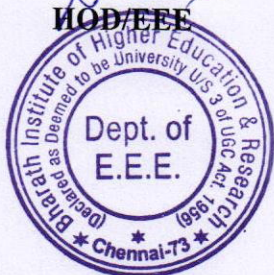
Mr. R. Karthik, Design Engineer, Iacharya Silicon Limited, Chennai would deliver lecture for the above mentioned course. 35 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.


HOD/EEE




DEAN ENGINEERING



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

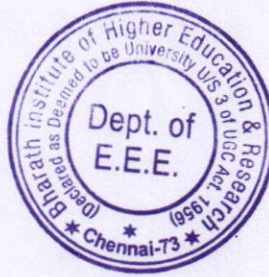
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

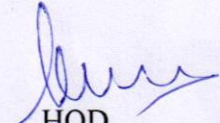
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

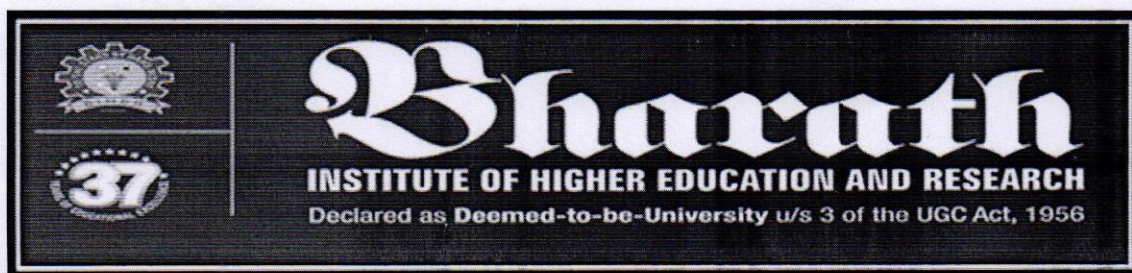
Date: 8.10.18

A value added course on “Automation using PLC and SCADA” is planned by the School of Electrical Engineering on **1/11/2018**. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 26.10.2018. Course commences on 1.11.2018 and it would be conducted for five days (**1/11/2018 to 5/11/2018**) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

AUTOMATION USING PLC AND SCADA

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
1.11.2018	FN	9.00 am to 12.30 pm	Recent Trends in Industrial Automation & PLC-SCADA -Evolution In Industrial Automation (A Brief History)-Different Type Of Industrial Control Mechanisms-Introduction To PLCs- PLC v/s Microcontrollers Area Of Applications	Mr. R. Karthik
	AN	1.30 pm to 4 pm	Hands on PLC Training Kit	Mr. R. Karthik
2.11.2018	FN	9.00 am to 12.30 pm	DATA Flow During Automation Motor Drives Introduction & Their Need Sensors Introduction & Their Need HMI Introduction & Its Need SCADA Introduction& Its Need	Dr.V.Jayalakshmi
	AN	1.30 pm to 4 pm	Hands on PLC Training Kit	Dr.V.Jayalakshmi
D3.11.2018	FN	9.00 am to 12.30 pm	Detail study of PLC & SCADA	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 4 pm	Hands on PLC Training Kit	Dr.S.P.Vijayaragavan
4.11.2018	FN	9.00 am to 12.30	PLC I/Os Basics, Burning & Interfacing Concepts Allen Bradley & Rockwell	Dr.T.R.Rangaswamy

		pm	Automation's Details -Brief Description To Input/ Output Pins Of Micrologix-1000-Ladder Diagram Basics	
	AN	1.30 pm to 5 pm	Hands on SCADA Software	Dr.T.R.Rangaswamy
5.11.2018	FN	9.00 am to 12.30 pm	Introduction To RSLogix-Downloading A Ladder Program In PLC Using RSLinx.-How To Take Input From Panel-How To Give Output To Panel Running First PLC Application	Mrs.Sherine
	AN	1.30 pm to 5 pm	Hands on PLC Training Kit & SCADA Software	Mrs.Sherine



The following students attended Three days' workshop on "Automation using PLC and SCADA" On (1/11/2018 to 5/11/2018) conducted by Iacharya Silicon Limited, Chennai

S.No	Register No	Name of the student	Signature of the Student				
			1/11/2018	2/11/2018	3/11/2018	4/11/2018	5/11/2018
1.	U15EE048	RAVINDRA KUMAR	R/kg	R/kg	R/kg	R/kg	R/kg
2.	U15EE701	RAVINDER SINGH	Ruv	Ruv	Ruv	Ruv	Ruv
3.	U15EE702	SAKTHIVEL C	Sakthi	Sakthi	Sakthi	Sakthi	Sakthi
4.	U15EE703	RABIN RAJ R	Rabin Raj	Rabin Raj	Rabin Raj	Rabin Raj	Rabin Raj
5.	U15EE704	GUGAN S	Gugan S	Gugan S	Gugan S	Gugan S	Gugan S
6.	U15EE705	ASHOK G	Ash	Ash	Ash	Ash	-AB-
7.	U15EE706	SHILPADEVI S	Shilpa	Shilpa	Shilpa	Shilpa	AB
8.	U15EE707	BILKAN SORENG	Bilkan	Bilkan	Bilkan	Bilkan	Bilkan
9.	U15EE708	B PRIYA	B	B	B	B	-AB-
10.	U15EE709	VINAYAGAM U	Vinayagam	Vinayagam	Vinayagam	Vinayagam	Vinayagam
11.	U15EE710	SRINIVASAN D	Srinivasan	Srinivasan	Srinivasan	AB	Srinivasan
12.	U15EE711	UMER MUSHTAQ M	Umer	Umer	Umer	Umer	Umer
13.	U15EE712	MERHIL RHETSO	Merhil	Merhil	Merhil	Merhil	Merhil
14.	U15EE713	PRASANTH KUMAR S	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth
15.	U15EE715	MOHAMMAD KASHIF ANSARI	Mohammed	Mohammed	Mohammed	Mohammed	Mohammed

16.	U15EE716	RAHUL KUMAR RAY	R K Ray	R K Ray	R K Ray	R K Ray	- AB -
17.	U15EE717	BIJENLU CHAITOM	Chaitom	Chaitom	Chaitom	Chaitom	Chaitom
18.	U15EC506	RAYAPUREDDY PRANAY REDDY	Pranay Reddy	Pranay Reddy	Pranay Reddy	Pranay Reddy	Pranay Reddy
19.	U15EC507	YALAMANCHI VENKATA SAI PRASAD	Venkata Sai	Venkata Sai	Venkata Sai	Venkata Sai	Venkata Sai
20.	U15EC508	PULICHARLA YUGANDHAR	Yugandhar	Yugandhar	Yugandhar	Yugandhar	Yugandhar
21.	U15EC509	NAVIN SANKAR S	Sankar S	Sankar S	Sankar S	Sankar S	Sankar S
22.	U15EC510	SRIRAM GANES S	Sriram S	Sriram S	Sriram S	Sriram S	Sriram S
23.	U15EC511	GALLA BALAJI	Balaji	Balaji	Balaji	Balaji	Balaji
24.	U15EC512	VENKATA SATYA NAGA PAVAN SIVA KUMAR M	Siva Kumar	Siva Kumar	Siva Kumar	Siva Kumar	Siva Kumar
25.	U15EC514	PRAVEEN KUMAR S	Praveen Kumar	Praveen Kumar	Praveen Kumar	Praveen Kumar	Praveen Kumar
26.	U15EC515	P NITHIN KRISHNA	Nithin Krishna	Nithin Krishna	Nithin Krishna	Nithin Krishna	Nithin Krishna
27.	U15EC516	THIRUKUMARAN R	Thirukumaran R	Thirukumaran R	Thirukumaran R	Thirukumaran R	Thirukumaran R
28.	U15EC517	BARATH D	Barath D	Barath D	Barath D	Barath D	Barath D
29.	U15EC518	ALICATTA AVINASH	Avinash	Avinash	Avinash	Avinash	Avinash
30.	U15EC519	C BHARATHRAJ	Bharathraj	Bharathraj	Bharathraj	Bharathraj	Bharathraj
31.	U16EC069	BURLA MALLIKHARJUNA REDDY	Mallikharjuna Reddy	Mallikharjuna Reddy	Mallikharjuna Reddy	Mallikharjuna Reddy	Mallikharjuna Reddy
32.	U16EC070	KATNAM SAIKUMAR	Saikumar	Saikumar	Saikumar	Saikumar	Saikumar
33.	U16EC071	YANAMALA VASU	Vasu	Vasu	Vasu	Vasu	Vasu
34.	U16EC073	IMMADI KARTHIK	Karthik	Karthik	Karthik	Karthik	- AD -
35.	U16EC074	VEMIREDDY NARASA REDDY	Narasa Reddy	Narasa Reddy	Narasa Reddy	Narasa Reddy	Narasa Reddy

Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai . T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Automation using PLC and SCADA ”by Mr. R. Karthik, Design Engineer, Iacharya Silicon Limited, Chennai on 1.11.18





Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Automation using PLC and SCADA

FEEDBACK FORM				Date: 5/11/2018	
Name	VISEE 703 Robin Raj R				
Register Number	VISEE 703				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person				✓	
Audio visual aids & Technology used					✓
Presentation Handouts		✓			

Robin Raj R

Student's Signature



Bharath

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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaipur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Automation using PLC and SCADA

FEEDBACK FORM				Date: 5/11/2018	
Name	B. priya				
Register Number	VISE E708				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person			✓		
Audio visual aids & Technology used				✓	
Presentation Handouts					✓

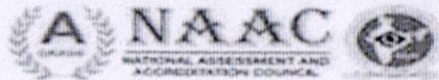
B. priya

Student's Signature



Bharath

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 P.PRIYA(U15EE708)

has attended Value added Course On “*Automation using PLC and SCADA*”

organized by the School of Electrical Engineering, BIHER conducted

from 1/11/2018 to 5/11/2018.

COURSE COORDINATOR

CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 6.5.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **"Certificate course on Industrial Automation"** -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **"Certificate course on Industrial Automation"** in our campus premises on **1.11.18**.

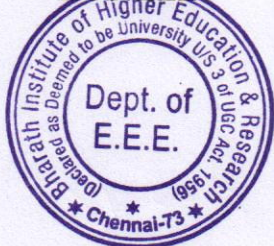
Mr. N Ravichandran, Asst.Exe.Eng.TNEB , Chennai would deliver lecture for the above mentioned course. 30 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.

HOD/EEE



DEAN ENGINEERING



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

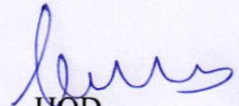
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

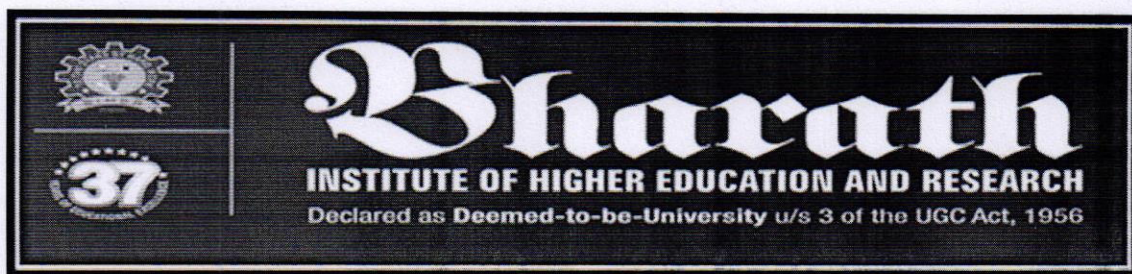
Date: 8.10.18

A value added course on “**Certificate course on Industrial Automation**” is planned by the School of Electrical Engineering on **1/11/2018**. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 26.10.2018. Course commences on 1.11.2018 and it would be conducted for five days (**1/11/2018 to 5/11/2018**) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING
CERTIFICATE COURSE ON INDUSTRIAL AUTOMATION
SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
1.11.2018	FN	9.00 am to 12.30 pm	Introduction - Architecture of Industrial Automation Systems	Mr. N Ravichandran
	AN	1.30 pm to 4 pm	Hands On Training	Mr. N Ravichandran
2.11.2018	FN	9.00 am to 12.30 pm	Measurement Systems Characteristics Data Acquisition Systems	Dr.T.R.Rangaswamy
	AN	1.30 pm to 4 pm	Hands On Training	Dr.T.R.Rangaswamy
3.11.2018	FN	9.00 am to 12.30 pm	Introduction to Automatic Control - P-I-D Control- PID Control Tuning-Feedforward Control Ratio Control-Time Delay Systems and Inverse Response Systems	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 4 pm	Hands On Training	Dr.S.P.Vijayaragavan
4.11.2018	FN	9.00 am to 12.30 pm	Introduction to Sequence Control, PLC , RLL Sequence Control. Scan Cycle, Simple RLL Programs- Sequence Control. More RLL Elements, RLL Syntax-A Structured Design Approach to Sequence Control-PLC Hardware Environment	Dr.S.Prakash

	AN	1.30 pm to 5 pm	Hands On Training	Dr.S.Prakash
5.11.2018	FN	9.00 am to 12.30 pm	Flow Control Valves Hydraulic Control Systems – I-Industrial Hydraulic Circuit-Pneumatic Control Systems – I-Energy Savings with Variable Speed Drives	Dr.V.Jayalakshmi
	AN	1.30 pm to 5 pm	CNC Machines - The Fieldbus Network - I -Higher Level Automation Systems	Dr.V.Jayalakshmi



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

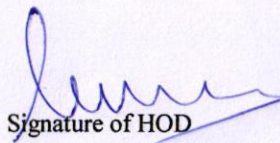


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

The following students attended Three days' workshop on on "Certificate course on Industrial Automation" On (1/11/2018 to 5/11/2018) conducted by on
"TNEB,Chennai"

S.No	Register No	Name of the student	Signature of the Student				
			1/11/2018	2/11/2018	3/11/2018	4/11/2018	5/11/2018
1.	U15EE001	ADITYA RAJ	<i>Ad Raj</i>	<i>Ad Raj</i>	<i>Ad Raj</i>	<i>-AB-</i>	<i>Ad Raj</i>
2.	U15EE002	AMBATI VENKATA REDDY	<i>venkata</i>	<i>venkata</i>	<i>venkata</i>	<i>venkata</i>	<i>venkata</i>
3.	U15EE003	ARUNAVA ROY	<i>Aruna</i>	<i>Aruna</i>	<i>Aruna</i>	<i>Aruna</i>	<i>Aruna</i>
4.	U15EE004	BACHU VENKAT SAI	<i>B. Venka</i>	<i>B. Venka</i>	<i>B. Venka</i>	<i>B. Venka</i>	<i>B. Venka</i>
5.	U15EE005	BHARATHI TIPPAGIUDESE	<i>Bharathi</i>	<i>Bharathi</i>	<i>Bharathi</i>	<i>Bharathi</i>	<i>Bharathi</i>
6.	U15EE006	BHUMIREDDY OM SEK HAR REDDY	<i>om sekhar</i>	<i>om sekhar</i>	<i>om sekhar</i>	<i>om sekhar</i>	<i>om sekhar</i>
7.	U15EE008	DHANUSH B	<i>Dh</i>	<i>Dh</i>	<i>-AB-</i>	<i>Dh</i>	<i>Dh</i>
8.	U15EE009	DUDEKULA ANWAR BASHA	<i>Basha</i>	<i>Basha</i>	<i>Basha</i>	<i>Basha</i>	<i>Basha</i>
9.	U15EE010	EEGA RAMESH	<i>Ramesh</i>	<i>Ramesh</i>	<i>Ramesh</i>	<i>Ramesh</i>	<i>Ramesh</i>
10.	U15EE011	GODDUMARRI PRUTHVIRAJ	<i>Pruthi</i>	<i>Pruthi</i>	<i>Pruthi</i>	<i>Pruthi</i>	<i>Pruthi</i>
11.	U15EE012	GOWTHAM K	<i>Gowtham</i>	<i>Gowtham</i>	<i>Gowtham</i>	<i>Gowtham</i>	<i>Gowtham</i>
12.	U15EE013	HEMANT KUMAR SAHU	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>
13.	U15EE014	JATAVATH SURESH	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>
14.	U15EE015	JAYANT KUMAR	<i>Jayant</i>	<i>Jayant</i>	<i>Jayant</i>	<i>Jayant</i>	<i>Jayant</i>

15.	U15EE016	K THARUN KUMAR REDDY	Prudh	Prudh	Prudh	Prudh	Prudh
16.	U15EE018	LOKESH KUMAR M	L Kgs	L Kgs	L Kgs	L Kgs	-AB-
17.	U15EE019	MD ASIF	md. Asif	md. Asif	md. Asif	md. Asif	md. Asif
18.	U15EE020	MOHAMED GHIYASUDEEN J	Ghiyas	Ghiyas	Ghiyas	Ghiyas	Ghiyas
19.	U15EE021	MUTHUKUMARAN G	Muthu	Muthu	Muthu	Muthu	Muthu
20.	U15EE022	NANDAN KUMAR	Nandan	Nandan	Nandan	Nandan	Nandan
21.	U15EE024	POTTA SYAM KUMAR	Syam	Syam	Syam	Syam	Syam
22.	U15EE025	PRAMOD KUMAR GHOSH	Prmod	Prmod	Prmod	Prmod	Prmod
23.	U15EE026	PRASHANT KUMAR PANDEY	Prashant	Prashant	Prashant	Prashant	Prashant
24.	U15EE027	PUGAZANTHI A	Pug	Pug	Pug	-AB-	Pug
25.	U15EE028	SENTHAMIL SELVAN K	Senth	Senth	Senth	Senth	Senth
26.	U15EE029	SONU KUMAR SUMAN	Sonu	Sonu	Sonu	Sonu	Sonu
27.	U15EE030	SHRIDHAR DWIVEDI	Shridhar	Shridhar	Shridhar	Shridhar	Shridhar
28.	U15EE031	SRIRAM S	Sri R	Sri R	Sri R	Sri R	-AB-
29.	U15EE032	SUBIN SUNIL	Subin	Subin	Subin	Subin	Subin
30.	U15EE033	SUSANTA GHOSH	Susanta	Susanta	Susanta	Susanta	Susanta


Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai . T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Certificate course on Industrial Automation” by Mr. N Ravichandran, Asst.Exe.Eng.TNEB , Chennai on 1.11.18





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Certificate course on Industrial Automation

FEEDBACK FORM				Date: 5/11/2018	
Name	SRINIVAS, S				
Register Number	U15EE031				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓

Student's Signature



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

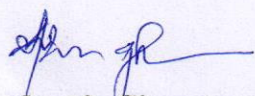


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Certificate course on Industrial Automation

FEEDBACK FORM		Date: 5/11/2018			
Name	Pugazanthi				
Register Number	U15EE02T				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person					✓
Audio visual aids & Technology used				✓	
Presentation Handouts					✓


Student's Signature



Bharath

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 **JAYANT KUMAR(U15EE015)**
has attended Value added Course On “*Certificate course on Industrial Automation*” organized by the School of Electrical Engineering, BIHER
conducted from 1/11/2018 to 5/11/2018.

COURSE COORDINATOR

CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 6.5.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **"Making and Maintenance of Electrical Applications"** -Reg

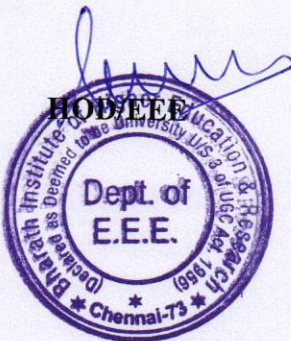
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **"Making and Maintenance of Electrical Applications"** in our campus premises on **1.11.18**.

Mr. C. Ramachandran, Ass.Exe.Eng.TNEB, Chennai would deliver lecture for the above mentioned course. 43 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.



DEAN ENGINEERING



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



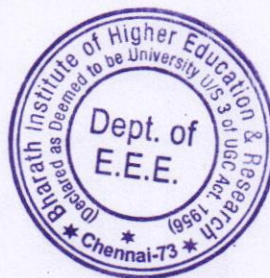
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

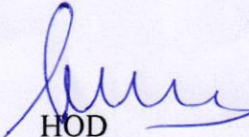
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

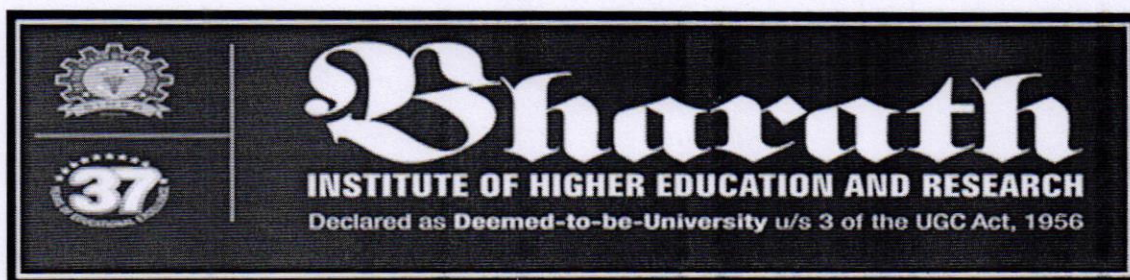
Date: 8.10.18

A value added course on “**Making and Maintenance of Electrical Applications**” is planned by the School of Electrical Engineering on **1/11/2018**. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 26.10.2018. Course commences on 1.11.2018 and it would be conducted for five days (**1/11/2018 to 5/11/2018**) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

MAKING AND MAINTENANCE OF ELECTRICAL EQUIPMENT

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
1.11.2018	FN	9.00 am to 12.30 pm	Introduction Maintenance.- Standards and References-Maintenance and Test Procedures	Mr. C.Ramachandran
	AN	1.30 pm to 4 pm	Hands on Training	Mr. C.Ramachandran
2.11.2018	FN	9.00 am to 12.30 pm	Electrical Equipment Maintenance Schedules-Maintenance Schedule for Annunciators-Maintenance Schedule for Arresters-Maintenance Schedule B Battery Chargers	Dr.T.R.Rangaswamy
	AN	1.30 pm to 4 pm	Hands on Training	Dr.T.R.Rangaswamy
3.11.2018	FN	9.00 am to 12.30 pm	Electrical Equipment Maintenance Schedules- Power Cables	Dr.V.Jayalakshmi
	AN	1.30 pm to 4 pm	Hands on Training	Dr.V.Jayalakshmi
4.11.2018	FN	9.00 am to 12.30 pm	Electrical Equipment Maintenance Schedules-Insulators Circuit Breakers	Mrs.Sherine
	AN	1.30 pm to 5 pm	Hands on Training	Mrs.Sherine

5.11.2018	FN	9.00 am to 12.30 pm	Electrical Equipment Maintenance Schedules-Generators and Large Motors	Ms.S.Aarthi Suriya
	AN	1.30 pm to 5 pm	Hands on Training	Ms.S.Aarthi Suriya

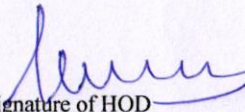


The following students attended Three days' workshop on on on "Making and Maintenance of Electrical Applications" On (1/11/2018 to 5/11/2018) conducted by on "TNEB , Chennai"

S.No	Register No	Name of the student	Signature of the Student				
			1/11/2018	2/11/2018	3/11/2018	4/11/2018	5/11/2018
1.	U15EE031	SRIRAM S					
2.	U15EE032	SUBIN SUNIL					
3.	U15EE033	SUSANTA GHOSH					
4.	U15EE035	TOIJAM NONGKHONGKOIBA					
5.	U15EE036	UDHAYACHANDRAN R					
6.	U15EE037	USHA KUMARI					
7.	U15EE039	ZAFFER HUSSAIN HAJAM					
8.	U15EE041	PRASHANT VERMA					
9.	U15EE042	SANOJ KUMAR					-AB-
10.	U15EE043	ALAYA CHOWDHURY					
11.	U15EE044	BIRBAL PANDIT					
12.	U15EE045	SANDEEP			-AB-		
13.	U15EE047	AKBAR ALAM					
14.	U15EE048	RAVINDRA KUMAR					

15.	U15EE701	RAVINDER SINGH	R.S	R.S	R.S	R.S	R.S
16.	U15EE702	SAKTHIVEL C	Shud	Shud	Shud	Shud	Shud
17.	U15EE703	RABIN RAJ R	Rn	Rn	Rn	Rn	Rn
18.	U16EC063	YALAMANDALA SANDHYA .	Sndy	Sndy	Sndy	Sndy	Sndy
19.	U16EC064	RACHARLA VENKATNARAYAN	Vnkr	Vnkr	Vnkr	Vnkr	Vnkr
20.	U16EC065	A MAHESH	Msh	Msh	Msh	Msh	Msh
21.	U16EC066	MARAMREDDY MURALI MOHAN	Mmr	Mmr	Mmr	Mmr	Mmr
22.	U16EC067	JIJJARAPU SHIVA	Shna	Shna	Shna	Shna	Shna
23.	U16EC068	DINESH D	Dnsh	Dnsh	Dnsh	Dnsh	Dnsh
24.	U16EC069	BURLA MALLIKHARJUNA REDDY	BmrR	BmrR	BmrR	BmrR	BmrR
25.	U16EC070	KATNAM SAIKUMAR	Knkr	Knkr	Knkr	Knkr	Knkr
26.	U16EC071	YANAMALA VASU	Vnkr	Vnkr	Vnkr	Vnkr	Vnkr
27.	U16EC073	IMMADI KARTHIK	Kmr	Kmr	Kmr	Kmr	Kmr
28.	U16EC074	DEMIREDDY NARASA REDDY	Nmr	Nmr	Nmr	Nmr	Nmr
29.	U16EC075	MANGISHETTI RAVALI	Rmr	Rmr	Rmr	Rmr	Rmr
30.	U16EC076	KOMMINENI DHARANI	Dmr	Dmr	Dmr	Dmr	Dmr
31.	U16EC077	KAVALA HARI HARSHAVARDHAN	Hmr	Hmr	Hmr	Hmr	Hmr
32.	U16EC078	VEMULA BHARATH	Bmr	Bmr	Bmr	Bmr	Bmr
33.	U16EC079	POTHURAJU VENKATA NAGA SUBRAMANYAM	Vnkr	Vnkr	Vnkr	Vnkr	Vnkr
34.	U16EC080	SEELAM VISWANATH	Vnkr	Vnkr	Vnkr	Vnkr	Vnkr
35.	U16EC082	ABHISHEK RANJAN	Rnkr	Rnkr	Rnkr	Rnkr	Rnkr
36.	U16EC084	K VISHNU	Vnkr	Vnkr	Vnkr	Vnkr	Vnkr
37.	U16EC085	AJITH A K	Akr	Akr	Akr	Akr	Akr

38.	U16EC086	SUNDAR BORO	Sund.	Sund	Sund	AB	Sund
39.	U16EC087	MOHAMMED MARUF KHAN A	Maruf	Maruf	Maruf	Maruf	Maruf
40.	U16EC063	YALAMANDALA SANDHYA	Sandhy	Sandhy	Sandhy	Sandhy	Sandhy
41.	U16EC064	RACHARLA VENKATNARAYAN	Rach	Rach	Rach	Rach	Rach
42.	U16EC065	A MAHESH	Ma	Ma	Ma	Ma	Ma
43.	U16EC066	MARAMREDDY MURALI MOHAN	Mam	Mam	Mam	Mam	Mam


Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selalpur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Sem Value added course on “Making and Maintenance of Electrical Applications” by

Mr. C. Ramachandran, Asst.Exe.Eng.TNEB , Chennai on 1.11.18





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

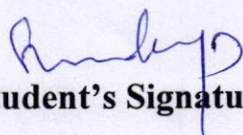


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Making and Maintenance of Electrical Applications

FEEDBACK FORM					Date: 5/11/2018
Name	Sandeep				
Register Number	UKEED45				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓


Student's Signature



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

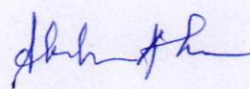


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Making and Maintenance of Electrical Applications

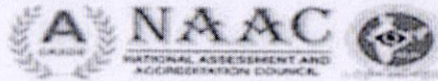
FEEDBACK FORM			Date: 5/11/2018		
Name	Akbar Alam				
Register Number	015 EED47				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person				✓	
Audio visual aids & Technology used				✓	
Presentation Handouts				✓	


Student's Signature



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 RAVINDRA KUMAR (U15EE048)
has attended Value added Course On “*Making and Maintenance of Electrical Applications*” organized by the School of Electrical Engineering, BIHER
conducted from 1/11/2018 to 5/11/2018.

COURSE COORDINATOR

CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 12.11.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **“Hands on Training for Fault Analysis in Home Applications”** -Reg

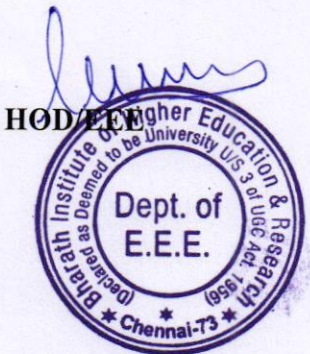
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **“Hands on Training for Fault Analysis in Home Applications”** in our campus premises on **5.12.18**.

Mrs. T.Jeyanthi, Asst.Exe.Eng.TNEB, Chennai would deliver lecture for the above mentioned course. 50 students would be participating in this course. We request you kindly to give permission to organize this event.

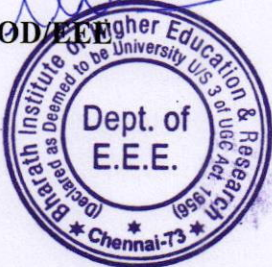
Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.



HOD/EEE



DEAN ENGINEERING



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



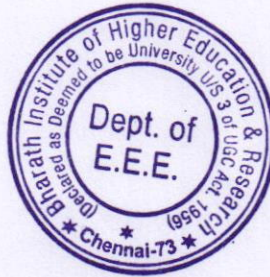
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

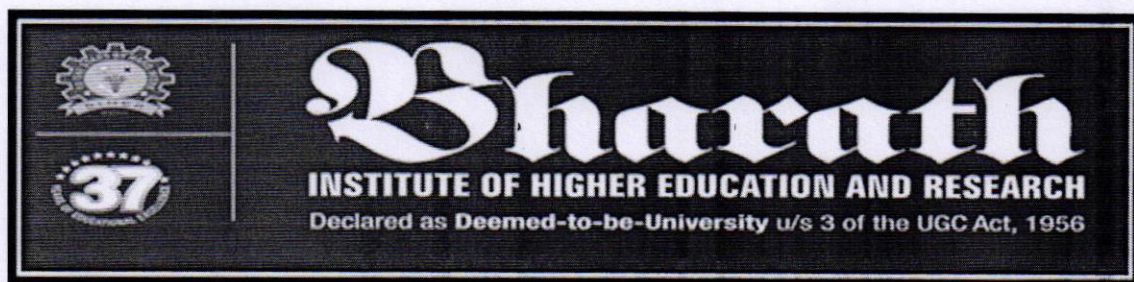
Date: 14.11.18

A value added course on “**Hands on Training for Fault Analysis in Home Applications**” is planned by the School of Electrical Engineering on **5/12/2018**. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 29.11.2018. Course commences on 5.12.2018 and it would be conducted for five days (**5/12/2018 to 9/12/2018**) from 9.00 AM to 4.00 P.M.



HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

HANDS ON TRAINING FOR FAULT ANALYSIS OF HOME APPLIANCES

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
5.12.2018	FN	9.00 am to 12.30 pm	Introduction to fault analysis Introductions Goals – discussion Source of fault current Fault statistics- Basic assumptions Short-circuit rating of equipment Selecting the correct switchgear rating for fault duties Overview of per-unit system One-line diagrams Sources of impedance data for all items of plant	Mrs. T.Jeyanthi
	AN	1.30 pm to 4 pm	Hands on Training	Mrs. T.Jeyanthi
6.12.2018	FN	9.00 am to 12.30 pm	Tutorial to demonstrate preparation of a system for study Introduction to the engineering software used throughout the course to make complex and repetitive-calculations as accurate as possible	Dr.V.Jayalakshmi
	AN	1.30 pm to 4 pm	Hands on Training	Dr.V.Jayalakshmi
7.12.2018	FN	9.00 am to 12.30 pm	Three-phase short-circuit currents-Review – summary – discussion-Manual calculation of three-phase short-circuit current-Circuit reduction techniques-Industrial systems-Electricity supply systems Tutorial - based on attendees plant	Dr.S.Prakash

			Cables subjected to short-circuit currents Compliance with regulations	
	AN	1.30 pm to 4 pm	Hands on Training	Dr.S.Prakash
8.12.2018	FN	9.00 am to 12.30 pm	Unsymmetrical fault conditions-Review – summary – discussion -Overview of symmetrical components-Consideration of various fault types-Sequence networks Consideration of phase shift in two-winding transformers-Consideration of earth impedance-Consideration of three-winding transformers	Mr.K.Dwarakesh
	AN	1.30 pm to 5 pm	Hands on Training	Mr.K.Dwarakesh
9.12.2018	FN	9.00 am to 12.30 pm	Computer based calculation of faults - Introduction to a scaled down industrial programme capable to model complex power systems under fault conditions- Use of the software program in practical studies (checking manual calculations)- Industrial standards-Case studies of faults in a high voltage network-Case study of faults in a low voltage network	Mr.K.Sakthivel
	AN	1.30 pm to 5 pm	Hands on Training	Mr.K.Sakthivel



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



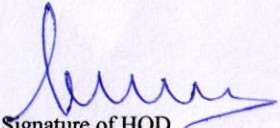
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

The following students attended Three days' workshop on on on on "Hands on Training for Fault Analysis in Home Applications" On (5/12/2018 to 9/12/2018)
conducted by on "TNEB , Chennai"

S.No	Register No	Name of the student	Signature of the Student				
			5/12/2018	6/12/2018	7/12/2018	8/12/2018	9/11/2018
1.	U15EE001	ADITYA RAJ	Aditya Raj	Aditya Raj	Aditya Raj	Aditya Raj	Aditya Raj
2.	U15EE002	AMBATI VENKATA REDDY	Venkat Reddy	Venkat Reddy	Venkat Reddy	Venkat Reddy	Venkat Reddy
3.	U15EE003	ARUNAVA ROY	Arunava Roy	Arunava Roy	Arunava Roy	Arunava Roy	Arunava Roy
4.	U15EE004	BACHU VENKAT SAI	Venkat Sai	Venkat Sai	Venkat Sai	Venkat Sai	Venkat Sai
5.	U15EE005	BHARATHI TIPPAGIUDESE	Bharathi Tippagiudese	Bharathi Tippagiudese	Bharathi Tippagiudese	Bharathi Tippagiudese	Bharathi Tippagiudese
6.	U15EE006	BHUMIREDDY OM SEKHAR REDDY	Om Sekhar Reddy	Om Sekhar Reddy	Om Sekhar Reddy	Om Sekhar Reddy	Om Sekhar Reddy
7.	U15EE008	DHANUSH B	Dhanush B	Dhanush B	Dhanush B	Dhanush B	Dhanush B
8.	U15EE009	DUDEKULA ANWAR BASHA	Anwar Basha	Anwar Basha	Anwar Basha	Anwar Basha	Anwar Basha
9.	U15EE010	EEGA RAMESH	Eega Ramesh	Eega Ramesh	Eega Ramesh	Eega Ramesh	Eega Ramesh
10.	U15EE011	GODDUMARRI PRUTHVIRAJ	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj	Pruthviraj
11.	U15EE012	GOWTHAM K	Gowtham K	Gowtham K	Gowtham K	Gowtham K	Gowtham K
12.	U15EE013	HEMANT KUMAR SAHU	Hemant Kumar Sahu	Hemant Kumar Sahu	Hemant Kumar Sahu	Hemant Kumar Sahu	Hemant Kumar Sahu
13.	U15EE014	JATAVATH SURESH	Suresh	Suresh	Suresh	Suresh	Suresh
14.	U15EE015	JAYANT KUMAR	Jayant Kumar	Jayant Kumar	Jayant Kumar	Jayant Kumar	Jayant Kumar

15.	U15EE016	K THARUN KUMAR REDDY	K. Tharun	K. Tharun	K. Tharun	K. Tharun	K. Tharun
16.	U15EE018	LOKESH KUMAR M	Lokesh	Lokesh	Lokesh	Lokesh	Lokesh
17.	U15EE019	MD ASIF	Asif	Asif	Asif	Asif	Asif
18.	U15EE020	MOHAMED GHIYASUDEEN J	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed
19.	U15EE021	MUTHUKUMARAN G	Muthukumar	Muthukumar	Muthukumar	Muthukumar	Muthukumar
20.	U15EE022	NANDAN KUMAR	Nandan	Nandan	Nandan	AB	Nandan
21.	U15EC502	KRITHIKA B	Krithika	Krithika	Krithika	Krithika	Krithika
22.	U15EC503	CHEEMALA MADHULIKA	C. Madhulika	C. Madhulika	C. Madhulika	C. Madhulika	C. Madhulika
23.	U15EC504	TALLA PRAMOD KUMAR REDDY	Pramod Kumar	Pramod Kumar	Pramod Kumar	Pramod Kumar	Pramod Kumar
24.	U15EC505	THOTA SRIHARI	T. Srihari	T. Srihari	T. Srihari	T. Srihari	T. Srihari
25.	U15EC506	RAYAPUREDDY PRANAY REDDY	Pranay Reddy	Pranay Reddy	Pranay Reddy	Pranay Reddy	Pranay Reddy
26.	U15EC507	YALAMANCHI VENKATA SAI PRASAD	Venkata Sai Prasad	Venkata Sai Prasad	Venkata Sai Prasad	Venkata Sai Prasad	Venkata Sai Prasad
27.	U15EC508	PULICHARLA YUGANDHAR	Yugandhar	Yugandhar	Yugandhar	Yugandhar	Yugandhar
28.	U15EC509	NAVIN SANKAR S	Navin Sankar S	Navin Sankar S	Navin Sankar S	Navin Sankar S	Navin Sankar S
29.	U15EC510	SRIRAM GANES S	Sriram Ganes S	Sriram Ganes S	AB	Sriram Ganes S	Sriram Ganes S
30.	U15EC511	GALLA BALAJI	Balaji	Balaji	Balaji	Balaji	Balaji
31.	U15EC512	VENKATA SATYA NAGA PAVAN SIVA KUMAR M	VSNM	VSNM	VSNM	VSNM	VSNM
32.	U15EC514	PRAVEEN KUMAR S	P. S	P. S	P. S	P. S	P. S
33.	U16EC075	MANGISHETTI RAVALI	AB	AB	AB	AB	AB
34.	U16EC076	KOMMINENI DHARANI	Dharani	Dharani	Dharani	Dharani	Dharani
35.	U16EC077	KAVALA HARI HARSHAVARDHAN	Hari	Hari	Hari	Hari	Hari
36.	U16EC078	VEMULA BHARATH	Bharath	Bharath	Bharath	Bharath	Bharath

37.	U16EC079	POTHURAJU VENKATA NAGA SUBRAMANYAM	venkat	venkat	venkat	venkat	venkat
38.	U16EC080	SEELAM VISWANATH	Seela	Seela	Seela	Seela	Seela
39.	U16EC082	ABHISHEK RANJAN	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
40.	U16EC084	K VISHNU	K. Vishnu	K. Vishnu	K. Vishnu	K. Vishnu	K. Vishnu
41.	U16EC085	AJITH A K	Ajith AK	Ajith AK	Ajith AK	Ajith AK	Ajith AK
42.	U16EC086	SUNDAR BORO	Sundar	Sundar	Sundar	Sundar	Sundar
43.	U16EC087	MOHAMMED MARUF KHAN A	Mohammed	Mohammed	Mohammed	Mohammed	Mohammed
44.	U16EC088	TAMILARASAN N	Tamilarasan	Tamilarasan	Tamilarasan	Tamilarasan	Tamilarasan
45.	U16EC089	SARASWATHI REDDY SREE PHANI MONISH	Saraswathi	Saraswathi	Saraswathi	Saraswathi	Saraswathi
46.	U16EC501	NANDIPATI AJAY REDDY	Ajay	Ajay	Ajay	Ajay	Ajay
47.	U16EC503	L JEEVAN SAI KUMAR REDDY	L Jeevan Sai	L Jeevan Sai	L Jeevan Sai	L Jeevan Sai	L Jeevan Sai
48.	U16EC504	POTHANA HANI KANTH	Pothana	Pothana	Pothana	Pothana	Pothana
49.	U16EC505	GUMMALLA SAI ANEESH CHOWDARY	Gummalla	Gummalla	Gummalla	Gummalla	Gummalla
50.	U16EC701	RAHUL K	Rahul	Rahul	Rahul	Rahul	Rahul


Signature of HOD



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Hands on Training for Fault Analysis in Home Applications” by

Mrs. T.Jeyanthi, Asst.Exe.Eng.TNEB , Chennai on 5.12.18





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Hands on Training for Fault Analysis in Home Applications

FEEDBACK FORM				Date: 10/12/2018	
Name	MD ASIF				
Register Number	VISEE019				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			/		
Resource person				/	
Audio visual aids & Technology used				/	
Presentation Handouts				/	

MD ASIF

Student's Signature



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Hands on Training for Fault Analysis in Home Applications

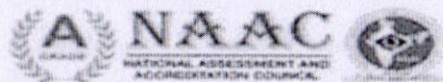
FEEDBACK FORM				Date: 10/12/2018	
Name	Kerithika B				
Register Number	VISEC502				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person			✓		
Audio visual aids & Technology used				✓	
Presentation Handouts					✓

Kerithika

Student's Signature



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

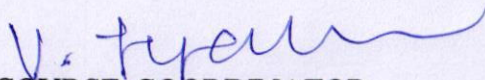


SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms P.KARTHIGA (U15EC502)

has attended Value added Course On “*Hands on Training for Fault Analysis in Home Applications*” organized by the School of Electrical Engineering, BIHER conducted from 5/12/2018 to 9/12/2018.


COURSE COORDINATOR


CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selayur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 12.11.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **"Certificate course on Design and Fabrication of Solar Lanther"** -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **"Certificate course on Design and Fabrication of Solar Lanther"** in our campus premises on **5.12.18**.

Mr. C.Sankara Rajeswaran, Design Engineer, Live Wire Pvt Ltd, Chennai , would deliver lecture for the above mentioned course. 61 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.



DEAN ENGINEERING



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



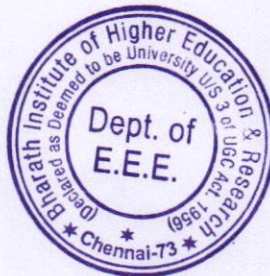
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

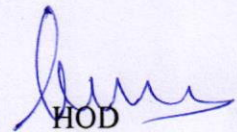
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

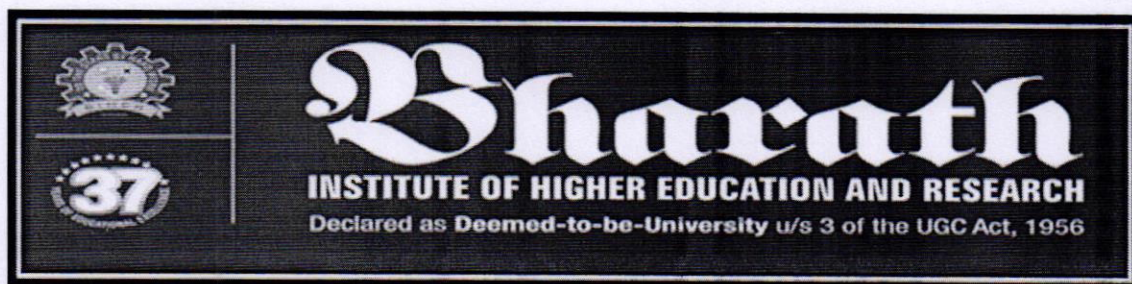
Date: 14.11.18

A value added course on “**Certificate course on Design and Fabrication of Solar Lanther**” is planned by the School of Electrical Engineering on **5/12/2018**. In this regard, students are instructed to give their willingness and, confirm their participation to their respective class in charge before 29.11.2018. Course commences on 5.12.2018 and it would be conducted for five days (**5/12/2018 to 9/12/2018**) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE COURSE ON DESIGN AND FABRICATION OF SOLAR LANTERN

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
5.12.2018	FN	9.00 am to 12.30 pm	Global overview of Power Development. • Global overview of Renewable Energy , Development including Solar, Basic principles of Solar Power (Solar Photovoltaic, Solar Thermal, Dish Type, Solar Tower)	Mr. C.Sankara Rajeswaran
	AN	1.30 pm to 4 pm	Basics of how solar panel is assembled and used	Mr. C.Sankara Rajeswaran
6.12.2018	FN	9.00 am to 12.30 pm	Introducing Components, their properties and Role in Solar Lantern	Mr.K.Sakthivel
	AN	1.30 pm to 4 pm	Hands on Training	Mr.K.Sakthivel
7.12.2018	FN	9.00 am to 12.30 pm	Manufacturing process for Solar Photovoltaic and Solar thermal equipment's - Use and handling procedure of solar panels, energy storage, control and conversion - mechanical equipment's and its functioning - maintenance procedure of equipment's - site survey, design and evaluation of various parameters	Dr.S.Prakash

	AN	1.30 pm to 4 pm	Hands on Training	Dr.S.Prakash
8.12.2018	FN	9.00 am to 12.30 pm	tools involved in installation of system -quality and process standards -occupational health and safety standards-waste management and disposal procedures and standards	Mrs.R.Rathika
	AN	1.30 pm to 5 pm	Hands on Training	Mrs.R.Rathika
9.12.2018	FN	9.00 am to 12.30 pm	importance of wearing protective clothing and other safety gear while • carrying out installation • precautions taken while handling different electrical and mechanical products	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 5 pm	Hands on Training	Dr.S.P.Vijayaragavan

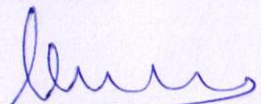


The following students attended Three days' workshop on on on on "Certificate course on Design and Fabrication of Solar Lanther" On (5/12/2018 to 9/12/2018) conducted by on Live Wire Pvt Ltd, Chennai.

S.No	Register No	Name of the student	Signature of the Student				
			5/12/2018	6/12/2018	7/12/2018	8/12/2018	9/11/2018
1.	U15EE021	MUTHUKUMARAN G					
2.	U15EE022	NANDAN KUMAR					- AB -
3.	U15EE024	POTTA SYAM KUMAR					
4.	U15EE025	PRAMOD KUMAR GHOSH					
5.	U15EE026	PRASHANT KUMAR PANDEY					
6.	U15EE027	PUGAZANTHI A					
7.	U15EE028	SENTHAMIL SELVAN K					
8.	U15EE029	SONU KUMAR SUMAN					
9.	U15EE030	SHRIDHAR DWIVEDI					
10.	U15EE031	SRIRAM S					
11.	U15EE032	SUBIN SUNIL					
12.	U15EE033	SUSANTA GHOSH					
13.	U15EE035	TOIJAM NONGKHONGKOIBA					
14.	U15EE036	UDHAYACHANDRAN R					
15.	U15EE037	USHA KUMARI					

16.	U15EE039	ZAFFER HUSSAIN HAJAM	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>
17.	U15EE041	PRASHANT VERMA	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>
18.	U15EE042	SANOJ KUMAR	<i>Sanoj</i>	<i>Sanoj</i>	<i>Sanoj</i>	<i>Sanoj</i>	<i>Sanoj</i>
19.	U15EE043	ALAYA CHOWDHURY	<i>Alaya</i>	<i>Alaya</i>	<i>Alaya</i>	<i>Alaya</i>	<i>Alaya</i>
20.	U15EE044	BIRBAL PANDIT	<i>Birbal</i>	<i>Birbal</i>	<i>Birbal</i>	<i>Birbal</i>	<i>Birbal</i>
21.	U15EE045	SANDEEP	<i>Sandeep</i>	<i>Sandeep</i>	<i>Sandeep</i>	<i>Sandeep</i>	<i>Sandeep</i>
22.	U15EE047	AKBAR ALAM	<i>Akbar</i>	<i>Akbar</i>	<i>Akbar</i>	<i>Akbar</i>	<i>Akbar</i>
23.	U15EE048	RAVINDRA KUMAR	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>
24.	U15EE701	RAVINDER SINGH	<i>Ravinder</i>	<i>Ravinder</i>	<i>Ravinder</i>	<i>Ravinder</i>	<i>Ravinder</i>
25.	U15EE702	SAKTHIVEL C	<i>Sakthivel</i>	<i>Sakthivel</i>	<i>Sakthivel</i>	<i>Sakthivel</i>	<i>Sakthivel</i>
26.	U15EE703	RABIN RAJ R	<i>Rabin</i>	<i>Rabin</i>	<i>Rabin</i>	<i>Rabin</i>	<i>Rabin</i>
27.	U15EE704	GUGAN S	<i>Gugan</i>	<i>Gugan</i>	<i>Gugan</i>	<i>Gugan</i>	<i>Gugan</i>
28.	U15EE705	ASHOK G	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>	<i>Ashok</i>
29.	U15EE706	SHILPADEVI S	<i>Shilpa</i>	<i>Shilpa</i>	<i>Shilpa</i>	<i>Shilpa</i>	<i>Shilpa</i>
30.	U15EE707	BILKAN SORENG	<i>Bilkan</i>	<i>Bilkan</i>	<i>Bilkan</i>	<i>Bilkan</i>	<i>Bilkan</i>
31.	U15EE708	B PRIYA	<i>B Priya</i>	<i>B Priya</i>	<i>B Priya</i>	<i>B Priya</i>	<i>B Priya</i>
32.	U15EE709	VINAYAGAM U	<i>Vinayagam</i>	<i>Vinayagam</i>	<i>Vinayagam</i>	<i>Vinayagam</i>	<i>Vinayagam</i>
33.	U15EE710	SRINIVASAN D	<i>Srinivasan</i>	<i>Srinivasan</i>	<i>Srinivasan</i>	<i>Srinivasan</i>	<i>Srinivasan</i>
34.	U15EE711	UMER MUSHTAQ M	<i>Umer</i>	<i>Umer</i>	<i>Umer</i>	<i>Umer</i>	<i>Umer</i>
35.	U15EE712	MERHIL RHETSO	<i>Merhil</i>	<i>Merhil</i>	<i>Merhil</i>	<i>Merhil</i>	<i>Merhil</i>
36.	U15EE713	PRASANTHKUMAR S	<i>Prasanth</i>	<i>Prasanth</i>	<i>Prasanth</i>	<i>Prasanth</i>	<i>Prasanth</i>
37.	U15EE715	MOHAMMAD KASHIF ANSARI	<i>Mohammad</i>	<i>Mohammad</i>	<i>Mohammad</i>	<i>Mohammad</i>	<i>Mohammad</i>
38.	U15EE716	RAHUL KUMAR RAY	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>	<i>Rahul</i>
39.	U15EE717	BIJENLU CHAITOM	<i>Bijenlu</i>	<i>Bijenlu</i>	<i>Bijenlu</i>	<i>Bijenlu</i>	<i>Bijenlu</i>
40.	U16EC001	ANNAAMALLAI CT	<i>Annaamallai</i>	<i>Annaamallai</i>	<i>Annaamallai</i>	<i>Annaamallai</i>	<i>Annaamallai</i>

41.	U16EC002	MOTHESWARAN G	Muthu	Muthu	Muthu	Muthu	Muthu
42.	U16EC003	PINJARI REHMAN VALI BASHA	Rambh	Rambh	Rambh	Rambh	Rambh
43.	U16EC004	HARIHARAN M	Hari	Hari	Hari	Hari	Hari
44.	U16EC005	POTLADURTHI SREENIVASA TEJA	Sm	Sm	Sm	Sm	Sm
45.	U16EC006	PRIYANGAA T	Pssg	Pssg	Pssg	Pssg	Pssg
46.	U16EC007	THIMMIGARI SAI VARDHAN	hm	hm	hm	hm	hm
47.	U16EC008	BORA GANESH	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
48.	U16EC009	MUNTA PRAVEEN KUMAR	Pm	Pm	Pm	Pm	Pm
49.	U16EC010	MATHIUKHONANG	Muthu	Muthu	Muthu	Muthu	Muthu
50.	U16EC012	SANGAVI B	Sm	Sm	AB -	Sm	Sm
51.	U16EC013	ANCHA KRISHNA REDDY	Anush	Anush	Anush	Anush	Anush
52.	U16EC014	BUGUDI RAMU	Ram	Ram	Ram	Ram	Ram
53.	U16EC015	GANJI BHARATHCHANDRA	Ganji B	Ganji B	Ganji B	Ganji B	Ganji B
54.	U16EC016	KATIKERI VENKATESH	Ven	Ven	Ven	Ven	Ven
55.	U16EC017	KOWSALYA K	Kush	Kush	Kush	Kush	Kush
56.	U16EC018	UNNAM SIVA KRISHNA	An	An	An	An	An
57.	U16EC020	RAUSHAN KUMAR	Raushan	Raushan	Raushan	Raushan	Raushan
58.	U16EC021	ALIVELI CHARAN SAI	Charan Sai	Charan Sai	Charan Sai	Charan Sai	Charan Sai
59.	U16EC022	BASIMALLA MARK RATNA BOSE	Rambh	Rambh	Rambh	Rambh	Rambh
60.	U16EC023	THATIKONDA PREM SAI	Pm	Pm	Pm	Pm	Pm
61.	U16EC024	DASINENI ANUSHA	Anush	Anush	AB -	Anush	Anush


Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai, T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Certificate course on Design and Fabrication of Solar Lanther” by
Mr. C.SankaraRajeswaran, Design Engineer, Live Wire Pvt Ltd, Chennai on 5.12.18





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Certificate course on Design and Fabrication of Solar Lanther

FEEDBACK FORM					Date: 10/12/2018
Name	Potta Syam Kumar				
Register Number	U15EE025				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓


Student's Signation



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

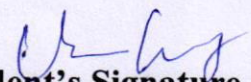


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selayur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

**VALUE ADDED COURSE - Certificate course on Design and Fabrication of
Solar Lanther**

FEEDBACK FORM					Date: 10/12/2018
Name	Usha Jewari				
Register Number	U15EE037				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓

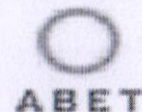

Student's Signature



Bharath

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 G.MUTHU KUMARAN (U15EE021)

has attended Value added Course On “*Certificate course on Design and Fabrication of Solar Lanther*” organized by the School of Electrical Engineering, BIHER conducted from 5/12/2018 to 9/12/2018.


COURSE COORDINATOR


CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Setalyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 12.11.18

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

Respected sir

Subject : Request of Permission to conduct a value added course on **“Assembling and Testing of Electrical Application”** -Reg

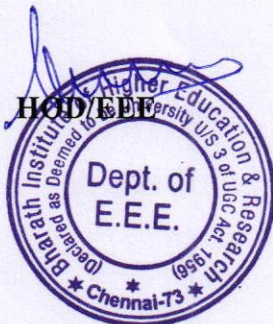
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **“Assembling and Testing of Electrical Application”** in our campus premises on **5.12.18**.

Mr. L.Venkatesan, Design Engineer Prolific Systems Pvt Ltd, Chennai would deliver lecture for the above mentioned course. 48 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.




DEAN ENGINEERING



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

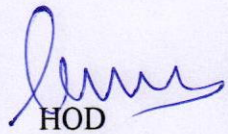
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

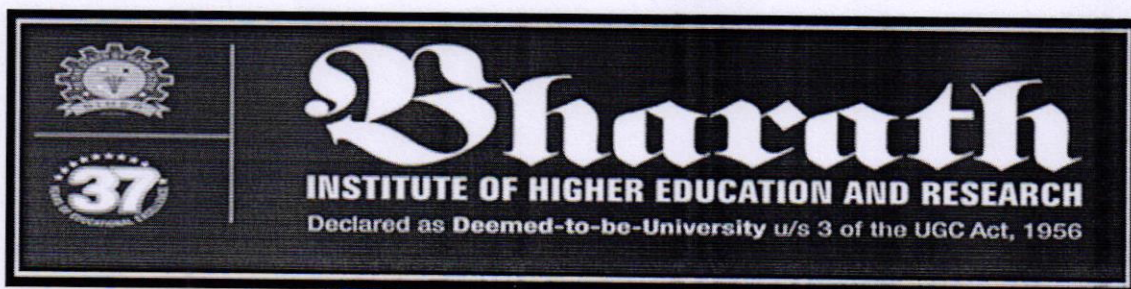
Date: 14.11.18

A value added course on “Assembling and Testing of Electrical Application” is planned by the School of Electrical Engineering on 5/12/2018. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 29.11.2018. Course commences on 5.12.2018 and it would be conducted for five days (5/12/2018 to 9/12/2018) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

ASSEMBLING AND TESTING OF ELECTRICAL APPLIANCES

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
5.12.2018	FN	9.00 am to 12.30 pm	Introduction -design of power supply, LSS system, cable trays	Mr. L.Venkatesan
	AN	1.30 pm to 4 pm	Testing of electrical devices	Mr. L.Venkatesan
6.12.2018	FN	9.00 am to 12.30 pm	Manufacturing large electrical devices, switchboards, power distribution boards, cable trays	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 4 pm	Testing of electrical and electronic devices	Dr.S.P.Vijayaragavan
7.12.2018	FN	9.00 am to 12.30 pm	Assembly of high and low current distributors,	Mrs.Anitha Sampathkumar
	AN	1.30 pm to 4 pm	Design and testing of suitable methods for repairing components of power distribution system	Mrs.Anitha Sampathkumar

8.12.2018	FN	9.00 am to 12.30 pm	Manufacture of connecting cables	Dr.V.Jayalakshmi
	AN	1.30 pm to 5 pm	Preparing, manufacturing and repairing various small electrical and electronic devices	Dr.V.Jayalakshmi
9.12.2018	FN	9.00 am to 12.30 pm	Manufacturing of PCB (printed circuit boards).	Mrs.G.Hemavathi
	AN	1.30 pm to 5 pm	Hands On Training	Mrs.G.Hemavathi



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai, T.N - 600 073.

The following students attended three days' workshop on on on on "Assembling and Testing of Electrical Application" On (5/12/2018 to 9/12/2018) conducted by on Prolific Systems Pvt Ltd, Chennai.

S.No	Register No	Name of the student	Signature of the Student				
			5/12/2018	6/12/2018	7/12/2018	8/12/2018	9/11/2018
1.	U15EE011	GODDUMARRI PRUTHVIRAJ					
2.	U15EE012	GOWTHAM K					- AB -
3.	U15EE013	HEMANT KUMAR SAHU					
4.	U15EE014	JATAVATH SURESH					
5.	U15EE015	JAYANT KUMAR					
6.	U15EE016	K THARUN KUMAR REDDY					
7.	U15EE018	LOKESH KUMAR M					
8.	U15EE019	MD ASIF			- AB -		
9.	U15EE020	MOHAMED GHIYASUDEEN J					
10.	U15EE021	MUTHUKUMARAN G					
11.	U15EE022	NANDAN KUMAR					
12.	U15EE024	POTTA SYAM KUMAR					
13.	U15EE025	PRAMOD KUMAR GHOSH					

14.	U15EE026	PRASHANT KUMAR PANDEY	Pan	Pan	Pan	Pan	Pan
15.	U15EE027	PUGAZANTHI A	Pan	Pan	Pan	Pan	Pan
16.	U15EE028	SENTHAMIL SELVAN K	Se	Se	Se	Se	Se
17.	U16EC062	KALLURI RAMA KSRISHNA	Kal	Kal	Kal	Kal	Kal
18.	U16EC063	YALAMANDALA SANDHYA	San	San	San	San	San
19.	U16EC064	RACHARLA VENKATNARAYAN	Ven	Ven	Ven	Ven	Ven
20.	U16EC065	A MAHESH	Mah	Mah	AB	Mah	Mah
21.	U16EC066	MARAMREDDY MURALI MOHAN	Mur	Mur	Mur	Mur	Mur
22.	U16EC067	JIJARAPU SHIVA	Shi	Shi	Shi	Shi	Shi
23.	U16EC068	DINESH D	Din	Din	Din	Din	Din
24.	U16EC069	BURLA MALLIKHARJUNA REDDY	Bur	Bur	Bur	Bur	Bur
25.	U16EC070	KATNAM SAIKUMAR	Kat	Kat	Kat	Kat	Kat
26.	U16EC071	YANAMALA VASU	Vas	Vas	Vas	Vas	Vas
27.	U16EC073	IMMADI KARTHIK	Imm	Imm	Imm	Imm	Imm
28.	U16EC074	VEMIREDDY NARASA REDDY	Vem	Vem	Vem	Vem	Vem
29.	U16EC075	MANGISHETTI RAVALI	Mang	Mang	Mang	Mang	Mang
30.	U16EC076	KOMMINENI DHARANI	Dhar	Dhar	Dhar	Dhar	Dhar
31.	U16EC077	KAVALA HARI HARSHAVARDHAN	Hari	Hari	Hari	Hari	Hari
32.	U16EC078	VEMULA BHARATH	Vem	Vem	Vem	Vem	Vem
33.	U16EC079	POTHURAJU VENKATA NAGA SUBRAMANYAM	Ven	Ven	Ven	Ven	Ven
34.	U16EC080	SEELAM VISWANATH	Seel	Seel	Seel	Seel	Seel
35.	U16EC082	ABHISHEK RANJAN	Abh	Abh	Abh	Abh	Abh
36.	U16EC084	K VISHNU	K.Vish	K.Vish	K.Vish	K.Vish	K.Vish

37.	U16EC085	AJITH A K	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>
38.	U16EC086	SUNDAR BORO	<i>Sub</i>	<i>Sub</i>	<i>Sub</i>	<i>Sub</i>	<i>Sub</i>
39.	U16EC087	MOHAMMED MARUF KHAN A	<i>Mur</i>	<i>Mur</i>	<i>Mur</i>	<i>Mur</i>	<i>Mur</i>
40.	U16EC088	TAMILARASAN N	<i>Thn</i>	<i>Thn</i>	<i>Thn</i>	<i>Thn</i>	<i>Thn</i>
41.	U16EC089	SARASWATHI REDDY SREE PHANI MONISH	<i>Sam</i>	<i>Sam</i>	<i>Sam</i>	<i>Sam</i>	<i>Sam</i>
42.	U16EC501	NANDIPATI AJAY REDDY	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>
43.	U16EC503	L JEEVAN SAI KUMAR REDDY	<i>Reen</i>	<i>Reen</i>	<i>Reen</i>	<i>Reen</i>	<i>Reen</i>
44.	U16EC504	POTHANA HANI KANTH	<i>Pan</i>	<i>Pan</i>	<i>Pan</i>	<i>Pan</i>	<i>Pan</i>
45.	U16EC505	GUMMALLA SAI ANEESH CHOWDARY	<i>Chn</i>	<i>Chn</i>	<i>Chn</i>	<i>Chn</i>	<i>Chn</i>
46.	U16EC701	RAHUL K	<i>Raj</i>	<i>Raj</i>	<i>-AB-</i>	<i>Raj</i>	<i>Raj</i>
47.	U16EC702	T ESWARCHANDRA PRASAD	<i>Esur</i>	<i>Esur</i>	<i>Esur</i>	<i>Esur</i>	<i>Esur</i>
48.	U16EC502	SUDHARSAN R	<i>Sur</i>	<i>Sur</i>	<i>-AB-</i>	<i>Sur</i>	<i>Sur</i>

[Signature]
Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Assembling and Testing of Electrical Application”by

Mr. L.Venkatesan, Design Engineer Prolific Systems Pvt Ltd, Chennai on 5.12.18





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

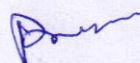


BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaipur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

**VALUE ADDED COURSE - Assembling and Testing of Electrical
Application**

FEEDBACK FORM					Date: 10/12/2018
Name	Prasanth Kumar Pandu				
Register Number	UISEE 020				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
Resource person				✓	
Audio visual aids & Technology used			✓		
Presentation Handouts					✓


Student's Signature



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

**VALUE ADDED COURSE - Assembling and Testing of Electrical
'Application'**

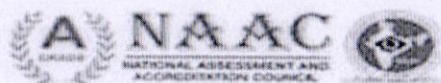
FEEDBACK FORM					Date: 10/12/2018
Name	Dinesh D.				
Register Number	UCB EC 016				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
Resource person					✓
Audio visual aids & Technology used				✓	
Presentation Handouts					✓


Student's Signature



Bharath

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

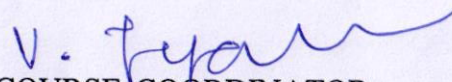


SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms MD.ASIF (U15EE019)

has attended Value added Course On “*Assembling and Testing of Electrical Application*” organized by the School of Electrical Engineering, BIHER conducted from 5/12/2018 to 9/12/2018.


COURSE COORDINATOR


CONVENOR



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From
Dr. T.R. Rangaswamy,
Professor & Head,
Department of EEE,
Bharath Institute of Higher Education and Research,
Chennai

Date: 1.4.19

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

Respected sir

Subject : Request of Permission to conduct a value added course on **"Introduction to Sensors and Actuators"** -Reg

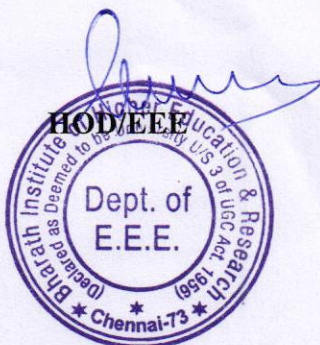
With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **"Introduction to Sensors and Actuators"** in our campus premises on **22.4.19**.

Mr. Venkatakrishnan Pichchumamani, TATA Consultancy Services, Chennai would deliver lecture for the above mentioned course. 45 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **EEE seminar Hall**

Timing : **9 am to 4 pm**

Submitted to Principal for approval to organize this value added course.




DEAN ENGINEERING



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

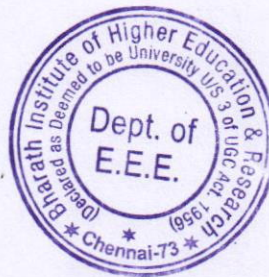
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

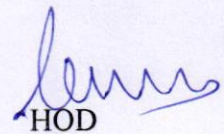
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

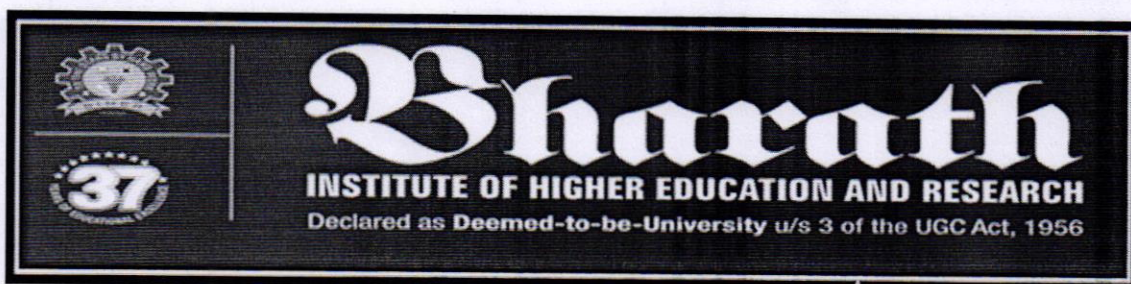
Date: 3.4.19

A value added course on “Introduction to Sensors and Actuators” is planned by the School of Electrical Engineering on **22/4/2019**. In this regard, students are instructed to give their willingness and confirm their participation to their respective class in charge before 17.4.2019. Course commences on 22.4.2019 and it would be conducted for five days (**22/4/2019 to 26/4/2019**) from 9.00 AM to 4.00 P.M.




HOD

Copy to
Department of ECE
Notice Board/ Department of EEE



SCHOOL OF ELECTRICAL ENGINEERING

INTRODUCTION SENSORS AND ACTUATORS

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
22.4.2019	FN	9.00 am to 12.30 pm	Introduction (Classification of sensors and actuators, sensing and actuating strategies, general requirements for interfacing and actuation, sensing, transduction, actuation)	Mr. Venkatakrisnan Pichchumamani
	AN	1.30 pm to 4 pm	Performance Characteristics of Sensors and Actuators (Input/output characteristics, accuracy, errors, repeatability, sensitivity analysis, hysteresis, nonlinearity, saturation, frequency response, dynamic characteristics, calibration, resolution, excitation, impedance, applications)	Mr. Venkatakrisnan Pichchumamani
23.4.2019	FN	9.00 am to 12.30 pm	Optical sensors: (Photodiodes, phototransistors and photoresistors based sensors, Photomultipliers, light-to-light detectors, Infrared sensors (thermal, PIR, AFIR, thermopiles), CCD sensors and detectors)	Dr.V.Jayalakshmi
	AN	1.30 pm to 4 pm	Temperature Sensors: (Thermoresistive sensors)	Dr.V.Jayalakshmi

			Thermistors, Resistance temperature sensors, Silicon resistive sensors, Thermoelectric sensors, PN junction temperature sensors, Dr.S.Prakash Optical and acoustic temperature sensor	
24.4.2019	FN	9.00 am to 12.30 pm	Magnetic and Electromagnetic Sensors and Actuators: (Motors as actuators (linear, rotational, stepping motors), magnetic valves, inductive sensors (eddy current, LVDT, RVDT, Proximity), Hall effect sensors, Magnetoresistive sensors, Magnetostrictive sensors and actuators, Magnetometers (fluxgate, search-coil, Squid), Voice coil actuators (speakers and speaker-like actuators), Bolometers (microwaves))	Dr.S.Prakash
	AN	1.30 pm to 4 pm	Mechanical Sensors: (Accelerometers (capacitive, piezoelectric, piezoresistive, thermal), Force sensors (strain gauges, tactile sensors), Pressure sensors (semiconductor, piezoresistive, capacitive, VRP), Gyroscopes (mechanical, optical, fiber-optics))	Dr.S.Prakash
25.4.2019	FN	9.00 am to 12.30 pm	Acoustic Sensors and Actuators: (Ultrasonic sensors (piezoelectric, electromagnetic), Piezoelectric actuators, Piezoelectric resonators, Microphones, hydrophones, speakers, buzzers)	Dr.T.R.Rangaswamy
	AN	1.30 pm to 5 pm	Chemical Sensor: (Electrochemical, Thermochemical, ChemFET, Gas, pH, Humidity, moisture and Opticalchemical sensors), Chemical Actuators	Dr.T.R.Rangaswamy

26.4.2019	FN	9.00 am to 12.30 pm	Interfacing Methods and Circuits: (Amplifiers: operational amplifiers, power amplifiers, A/D and D/A converters, Bridge circuits, Interfacing to microprocessors, Data transmission, Excitation methods and circuits, Power requirements, Signal translation, Isolation, Noise, Interference, Compensation (temperature, drift, etc.))	Dr.S.P.Vijayaragavan
	AN	1.30 pm to 5 pm	Interfacing to Microprocessors: (General requirements for sensors and actuators, Input signal conditioning (offset, scaling, isolation, hysteresis, etc.), Output signals (level, power, isolation, etc.), Driving methods (direct, PWM), Errors (A/D and D/A)), noise and errors.	Dr.S.P.Vijayaragavan



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

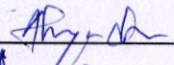
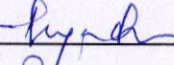
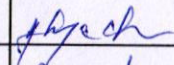
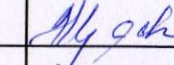
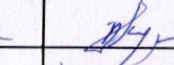
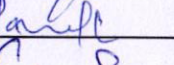
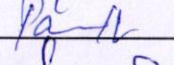
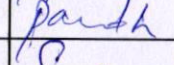
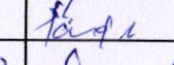
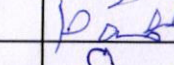


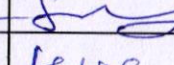
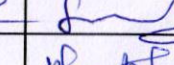
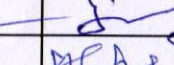
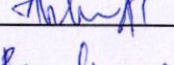
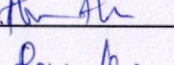
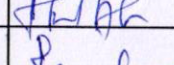
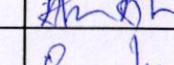
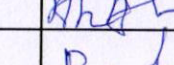
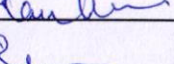
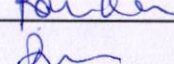
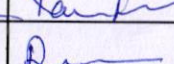
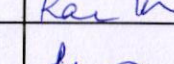
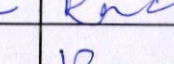
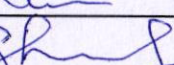
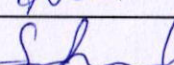
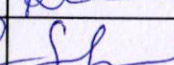

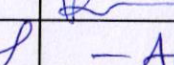

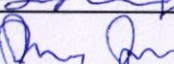
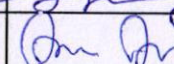
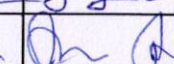
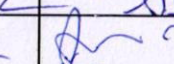
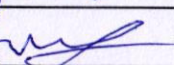
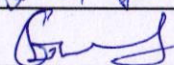
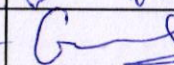
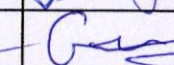
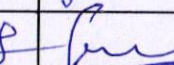
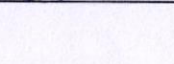
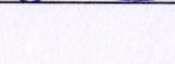
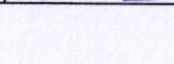
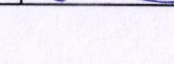
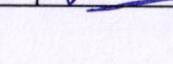


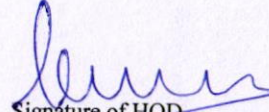
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

The following students attended three days' workshop on "Introduction to Sensors and Actuators" On (22/4/2019 to 26/4/2019) conducted by on TATA Consultancy Services, Chennai.

S.No	Register No	Name of the student	Signature of the Student				
			22/4/2019	23/4/2019	24/4/2019	25/4/2019	26/4/2019
1.	U15EE001	ADITYA RAJ					
2.	U15EE002	AMBATI VENKATA REDDY					
3.	U15EE003	ARUNAVA ROY					
4.	U15EE004	BACHU VENKAT SAI					
5.	U15EE005	BHARATHI TIPPAGIUDESE					
6.	U15EE006	BHUMIREDDY OM SEKHAR REDDY					
7.	U15EE008	DHANUSH B					- AB -
8.	U15EE009	DUDEKULA ANWAR BASHA					
9.	U15EE010	EEGA RAMESH					
10.	U15EE011	GODDUMARRI PRUTHVIRAJ					
11.	U15EE012	GOWTHAM K					
12.	U15EE013	HEMANT KUMAR SAHU					

13.	U15EE014	JATAVATH SURESH	<i>Ju</i>	<i>gr</i>	<i>Sh</i>	<i>J</i>	<i>Sh</i>
14.	U15EE015	JAYANT KUMAR	<i>Jay</i>	<i>Jay</i>	<i>Jay</i>	<i>Jay</i>	<i>Jay</i>
15.	U15EE016	K THARUN KUMAR REDDY	<i>Tharun</i>	<i>Tharun</i>	<i>Tharun</i>	<i>Tharun</i>	<i>Tharun</i>
16.	U15EE018	LOKESH KUMAR M	<i>Lok</i>	<i>Lok</i>	<i>Lok</i>	<i>Lok</i>	<i>Lok</i>
17.	U15EE019	MD ASIF	<i>Asif</i>	<i>Asif</i>	<i>Asif</i>	<i>Asif</i>	<i>-AB-</i>
18.	U15EE020	MOHAMED GHIYASUDEEN J	<i>Ghi</i>	<i>Ghi</i>	<i>Ghi</i>	<i>Ghi</i>	<i>Ghi</i>
19.	U15EE021	MUTHUKUMARAN G	<i>Muthu</i>	<i>Muthu</i>	<i>Muthu</i>	<i>Muthu</i>	<i>Muthu</i>
20.	U15EE022	NANDAN KUMAR	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>	<i>Nan</i>
21.	U15EE024	POTTA SYAM KUMAR	<i>Pot</i>	<i>Pot</i>	<i>Pot</i>	<i>Pot</i>	<i>Pot</i>
22.	U15EE025	PRAMOD KUMAR GHOSH	<i>Pram</i>	<i>Pram</i>	<i>Pram</i>	<i>Pram</i>	<i>Pram</i>
23.	U15EE026	PRASHANT KUMAR PANDEY	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>
24.	U15EE027	PUGAZANTHI A	<i>Pug</i>	<i>Pug</i>	<i>Pug</i>	<i>Pug</i>	<i>Pug</i>
25.	U15EE028	SENTHAMIL SELVAN K	<i>Senth</i>	<i>Senth</i>	<i>Senth</i>	<i>Senth</i>	<i>Senth</i>
26.	U15EE029	SONU KUMAR SUMAN	<i>Sonu</i>	<i>Sonu</i>	<i>Sonu</i>	<i>Sonu</i>	<i>Sonu</i>
27.	U15EE030	SHRIDHAR DWIVEDI	<i>Shrid</i>	<i>Shrid</i>	<i>Shrid</i>	<i>Shrid</i>	<i>Shrid</i>
28.	U15EE031	SRIRAM S	<i>Sriram</i>	<i>-AB-</i>	<i>Sriram</i>	<i>Sriram</i>	<i>Sriram</i>
29.	U15EE032	SUBIN SUNIL	<i>Subin</i>	<i>Subin</i>	<i>Subin</i>	<i>Subin</i>	<i>Subin</i>
30.	U15EE033	SUSANTA GHOSH	<i>Sush</i>	<i>Sush</i>	<i>Sush</i>	<i>Sush</i>	<i>Sush</i>
31.	U15EE035	TOIJAM NONGKHONGKOIBA	<i>Toijam</i>	<i>Toijam</i>	<i>Toijam</i>	<i>Toijam</i>	<i>Toijam</i>
32.	U15EE036	UDHAYACHANDRAN R	<i>Udhay</i>	<i>Udhay</i>	<i>Udhay</i>	<i>Udhay</i>	<i>Udhay</i>
33.	U15EE037	USHA KUMARI	<i>Usha</i>	<i>Usha</i>	<i>Usha</i>	<i>Usha</i>	<i>Usha</i>
34.	U15EE039	ZAFFER HUSSAIN HAJAM	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>	<i>Zaffer</i>
35.	U15EE041	PRASHANT VERMA	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>	<i>Prash</i>
36.	U15EE042	SANOJ KUMAR	<i>Sanoj</i>	<i>Sanoj</i>	<i>Sanoj</i>	<i>-AB-</i>	<i>Sanoj</i>

37.	U15EE043	ALAYA CHOWDHURY					
38.	U15EE044	BIRBAL PANDIT					
39.	U15EE045	SANDEEP					
40.	U15EE047	AKBAR ALAM					
41.	U15EE048	RAVINDRA KUMAR					
42.	U15EE701	RAVINDER SINGH					
43.	U15EE702	SAKTHIVEL C					
44.	U15EE703	RABIN RAJ R					
45.	U15EE704	GUGAN S					


Signature of HOD



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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS

VALUE ADDED COURSES

2018-19

Value added course on “Introduction to Sensors and Actuators” by

Mr. Venkatakrishnan Pichchumamani, TATA Consultancy Services, Chennai on 22.4.19





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



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Introduction to Sensors and Actuators

FEEDBACK FORM				Date: 26/4/2019	
Name	Jeeva kumar				
Register Number	U15EE042				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓

Student's Signature



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




BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Sefaiyur, Chennai , T.N - 600 073.

SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE - Introduction to Sensors and Actuators

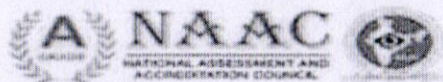
FEEDBACK FORM					Date: 26/4/2019
Name	Eega Ramesh				
Register Number	U15EE010				
Phone Number					
Email address					
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
Resource person					✓
Audio visual aids & Technology used					✓
Presentation Handouts					✓


Student's Signature



Bharath

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 **ARUNAVA ROY(U15EE003)**

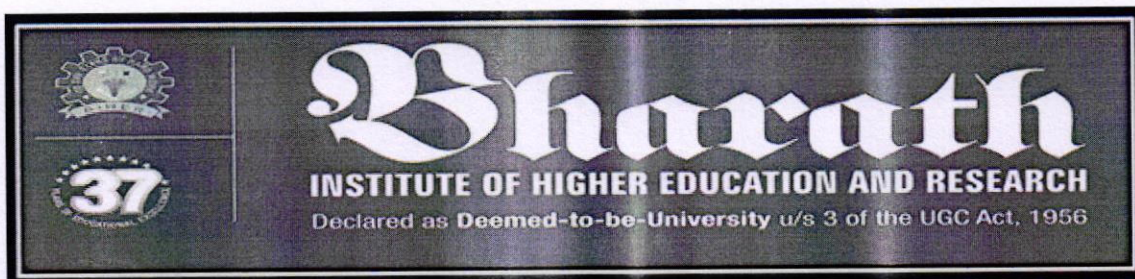
has attended Value added Course On *“Introduction to Sensors and Actuators”*

organized by the School of Electrical Engineering, BIHER conducted

from **22/4/2019 to 26/4/2019.**


COURSE COORDINATOR


CONVENOR



Requisition Letter

Date: 12.03.2019

From

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

To

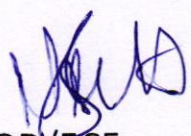
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,


SUB : Requisition for conducting Value Added Course-Regd

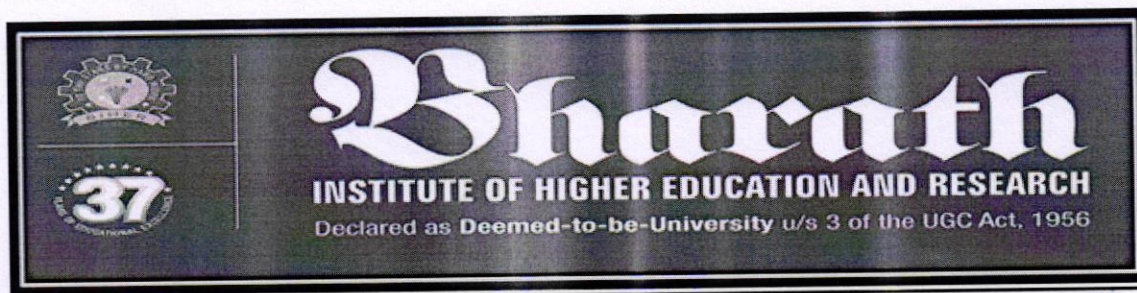
School of Electrical Engineering has planned to conduct Value added Course on "Computational Electromagnetics" on 22.04.2019. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



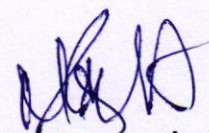
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 02.04.2019

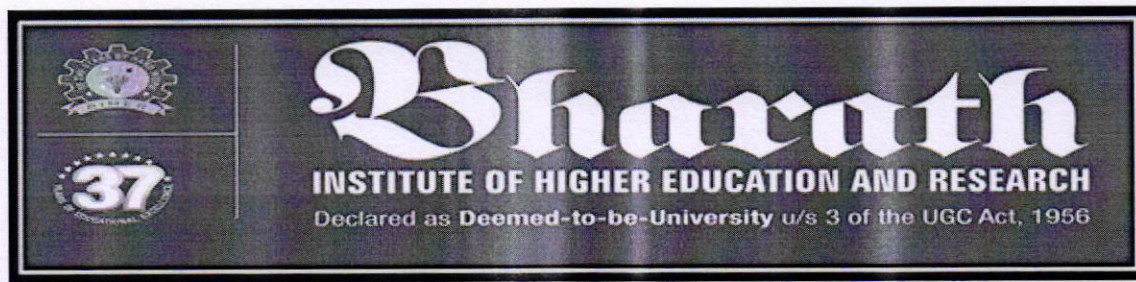
The course on Computational Electromagnetics is planned by School of Electrical Engineering which commences on 22-4-2019 (Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: S.Balaji
Contact No: 9566078080
Email id : balajis.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)

Computational Electromagnetics

Course Objective

To understand the concepts of computational electromagnetics, to enable analysis of numerical stability and dispersion. Introduction to the finite-difference time-domain (FDTD) method in numerical modeling of electromagnetic and optical wave interactions with engineering structures.

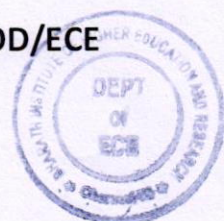
Resource Persons :

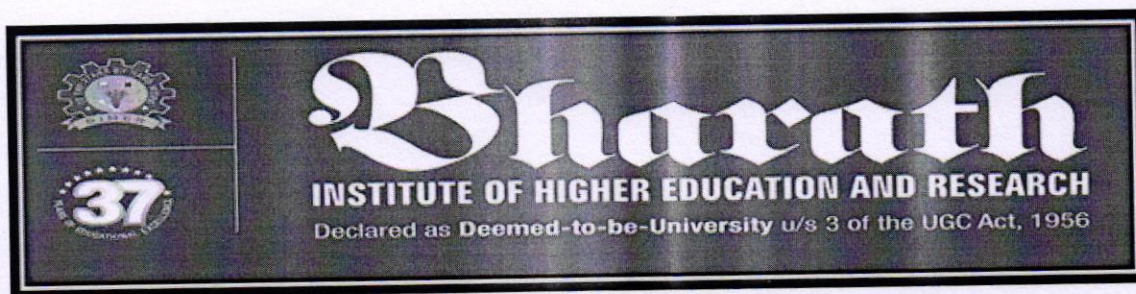
1. Dr. S Arulselvi
2. Ramya S


Convener

Dr. M. Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Computational Electromagnetics

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
22-4-2019	FN	9.00 am to 12.30 pm	Basic Principles: Radar equation, Radar Cross section	Dr.S Arulselvi
	AN	1.30 pm to 4 pm	CW Radar, FMCW Radar	Ramya S
23-4-2019	FN	9.00 am to 12.30 pm	Pulsed Radar Principles	Dr.S Arulselvi
	AN	1.30 pm to 4 pm	Clutter Analysis, MTI Improvement Factor, Pulsed Doppler Radar	Ramya S
24-4-2019	FN	9.00 am to 12.30 pm	Tracking Radar, Angular resolution, Monopulse Technique	Dr.S Arulselvi
	AN	1.30 pm to 4 pm	Detection Theory: Match Filtering, Radar Ambiguity Function	Ramya S
25-4-2019	FN	9.00 am to 12.30 pm	Imaging Radar: Resolution Concept, Pulse Compression	Dr.S Arulselvi
	AN	1.30 pm to 5 pm	Synthetic Aperture Processing, ISAR Imaging	Ramya S
26-4-2019	FN	9.00 am to 12.30 pm	Probability of false alarm and Detection, Modified Radar Range Equation with Swerling Models	Dr.S Arulselvi
	AN	1.30 pm to 5 pm	Ground Penetrating Radar for close sensing	Ramya S

VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING

Computational Electromagnetics

List Of Participants

Date: 22-4-2019

Sl.No	REG.NO	NAME OF THE CANDIDATE
1.	U15EC010	ANKIT KUMAR DUBEY
2.	U15EC011	ARAVINDH M
3.	U15EC012	ARIVAZHAGAN R
4.	U15EC013	ARJUN R
5.	U15EC014	ARULANTONY RAJI
6.	U15EC015	ATTAR MOHAMMED TOUSIF
7.	U15EC016	ATUKURI AVINASSH
8.	U15EC017	BASETTY HIMABINDU
9.	U15EC018	BOJJA PHANINDHRA REDDY
10	U15EC019	C. SHIVARAMAN SRIKANTH
11	U15EC020	CHANDAN PANDAY
12	U15EC021	CHAPARTHI KARTHIK
13	U15EC022	CHEKKA KESAVA PRAJWAL
14	U15EC023	CHITTIBOMMA SWATHI
15	U15EC024	DASARI HARI SAI KUMAR
16	U15EC025	DUDEKULA FAYAZ

17	U15EC026	DUDEKULA NOORNIYAZ
18	U15EC027	DUGYALA PREETHI
19	U15EC028	FAHIMA NASREEN S
20	U15EC029	G. VIGNESH
21	U15EC030	GADE MOUNIKA
22	U15EC031	GOKUL.G
23	U15EC032	GORANTLA SRINADH
24	U15EC033	GOWTHAM R
25	U15EC034	GUDIVADA HEMASAGAR
26	U15EC035	GUNDRATHI AJAY KUMAR
27	U15EC036	GURIGINJAKUNTA VISHNU KUMAR
28	U15EC037	GURU PRASAD M
29	U15EC038	INDRA KUMAR SAHU
30	U15EC039	J PHANEENDRANATH
31	U15EC040	JAGALURU THIMMA REDDY
32	U15EC041	JAGARLAMUDI CHAITANYA
33	U15EC042	JAKKU MANIDEEP
34	U15EC043	JAYASURYA K R
35	U15EC044	JETTY SAI SUDHEER
36	U15EC045	JOELTHAMBURAJ D
37	U15EC046	JONNALAGADDA VENKATA MANOJ KUMAR
38	U15EC047	K O HARICHANDANA
39	U15EC048	KADAPA SREENIVASULAREDDY
40	U15EC049	KARAKAVALASA UDAY KUMAR

41	U15EC050	KARICHETI BALAKRISHNA
42	U15EC051	KARNAM MOHITH
43	U15EC052	KARTHICK T
44	U15EC053	KELAM PHANI SHANKAR
45	U15EC054	KISHOR KARTHIK G T
46	U15EC055	KODARAPU MANEESH KUMAR
47	U15EE010	EEGA RAMESH
48	U15EE011	GODDUMARRI PRUTHVIRAJ
49	U15EE012	GOWTHAM K
50	U15EE013	HEMANT KUMAR SAHU
51	U15EE014	JATAVATH SURESH
52	U15EE015	JAYANT KUMAR



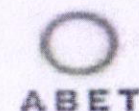
(Dr.M.Sangeetha)

HOD/ECE





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



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

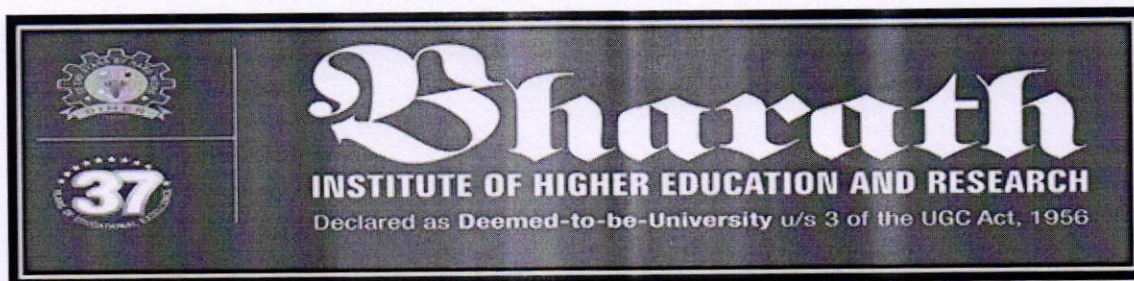
This is to certify that Mr / Ms **HEMANT KUMAR SAHU (U15EE013)**
has attended Value added Course on “**Computational Electromagnetics**”
organized by the School of Electrical Engineering, BIHER
conducted from 22-4-2019 to 26-4-2019.

S. Balaji

BALAJI S
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR



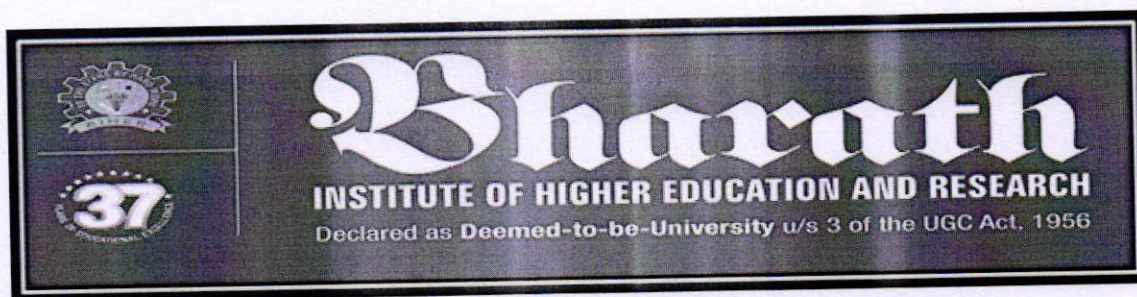
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Computational Electromagnetics

FEED BACK FORM		Date:26-4-2019			
Name	Eega Lamesh.				
Register number	VISEE010				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs			✓		✓

Eega Lamesh
Student Signature



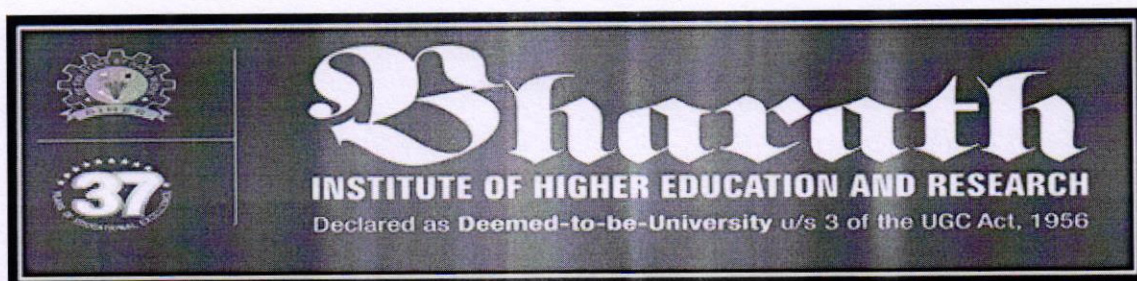
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Computational Electromagnetics

FEED BACK FORM		Date: 26-4-2019			
Name	Jayasree . K.R				
Register number	UISEC 043				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

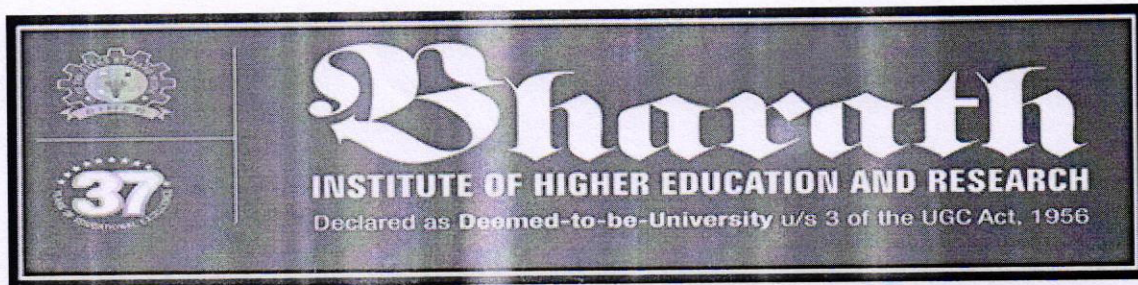

Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Computational Electromagnetics dated on 22-4-2019 conducted by school of Electrical Engineering





Requisition Letter

Date: 12.03.2019

From

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

To

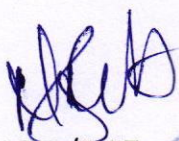
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,

SUB : Requisition for conducting Value Added Course-Regd

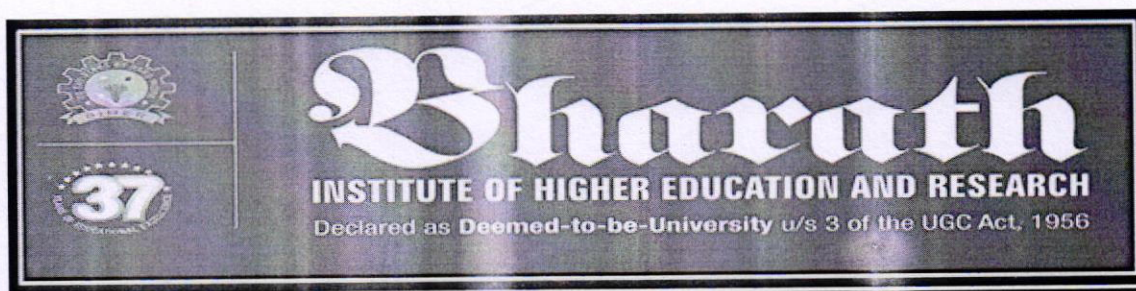
School of Electrical Engineering has planned to conduct Value added Course on "Fabrication Techniques For Mems Based Sensors Clinical Perspective " on 22.04.2019. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



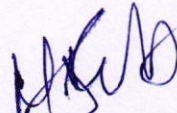
CIRCULAR

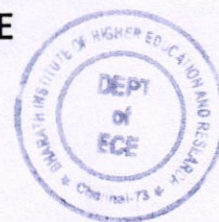
SCHOOL OF ELECTRICAL ENGINEERING

Date: 02.04.2019

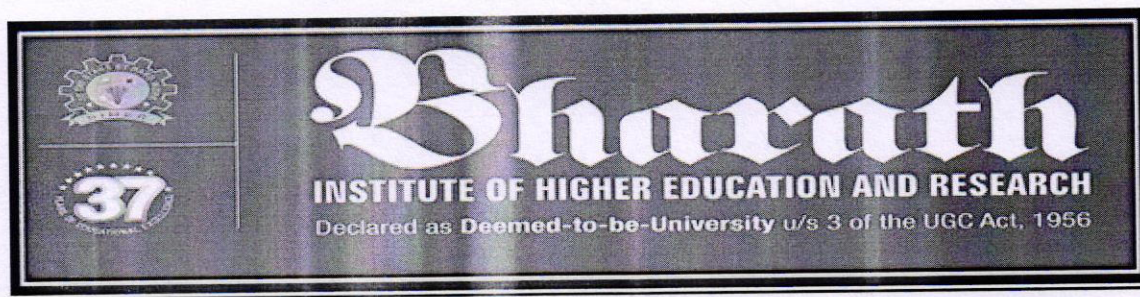
The course on Fabrication Techniques For MemS Based Sensors Clinical Perspective is planned by School of Electrical Engineering which commences on 22-4-2019 (Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: S.Balaji
Contact No: 9566078080
Email id : balajis.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)

Fabrication Techniques For MemS Based Sensors Clinical Perspective

Course Objective

This course is designed with an aim of educating students in the area of microtechnology and its use to fabricate sensors and systems. The students will have an exposure to sensors and its importance in the real world. The students will also be able to understand how to fabricate some of those sensors. Several examples of engineering devices used in clinical research will be also covered. Class 10000 non-conventional clean room and some equipment within it will also be shown. Below are some of the course outcomes. Ability to understand microfabrication process Understand sensors used in electronics and biomedical areas Understand Clean Room (Class 1 to Class 10000) Understand Microengineering Technology Design the process flow for fabricating microheater required in gas sensors. Design the process flow for fabricating force sensors for biomedical application. Design microheater for gas sensors as per specifications. Design force sensors as per specifications. Understand fabrication of microfluidic platforms, micro-cantilevers, flexible force sensors, inter-digitated electrodes, polymer-glass bonding etc. for clinical research.

Resource Persons :

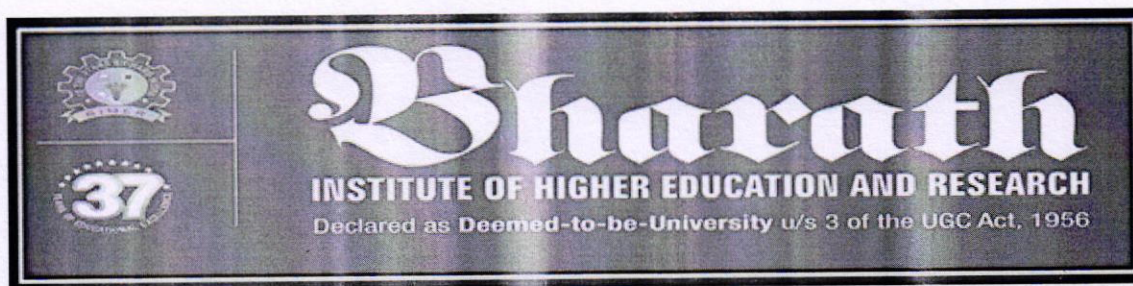
1. K. Subbulakshmi
2. G. Kanagavalli


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Fabrication Techniques For Mems Based Sensors Clinical Perspective

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
22-4-2019	FN	9.00 am to 12.30 pm	Introduction to microengineering devices and its applicationsWeek	K..Subbulakshmi
	AN	1.30 pm to 4 pm	Clean room, contaminants, wafer cleaning processes (DI water, RCA, metallic impurities, etc.).	G. Kanagavalli
23-4-2019	FN	9.00 am to 12.30 pm	Introduction to the microheater, force sensors, microfluidic devices, its specifications, and applications.	K..Subbulakshmi
	AN	1.30 pm to 4 pm	Masks: Types of masks, Types of Photoresists, Spin Coaters Lithography process: optical lithography, x-ray, and e-beam lithography, lift-off techniques, soft lithography, Use of resists (spin coating, positive and negative photoresists), photoresist pre-baking, exposure, and development.	G. Kanagavalli
24-4-2019	FN	9.00 am to 12.30 pm	Etching: Isotropic/anisotropic, selectivity, wet and plasma assisted etching.	K..Subbulakshmi
	AN	1.30 pm to 4 pm	Types of wafers and orientations. Techniques of metallization: PVD [(Sputtering – DC, RF, and Magnetron), thermal evaporation, e-beam evaporation].	G. Kanagavalli
25-4-2019	FN	9.00 am to 12.30	Chemical Vapor Deposition: Dielectric	K..Subbulakshmi

		pm	films (Plasma Enhance Chemical Vapor Deposition (PECVD)), Atomic Layer Deposition	
	AN	1.30 pm to 5 pm	Understanding and designing the process flow for fabricating microengineering devices. Process flow for microheater, force sensors, and microfluidic devices.	G. Kanagavalli
26-4-2019	FN	9.00 am to 12.30 pm	Wafer dicing and bonding techniques. Microfluidic Chips	K..Subbulakshmi
	AN	1.30 pm to 5 pm	Process Flow for Fabricating Flexible Force Sensors and Force Sensors on Silicon, Process Flow for Fabricating VOC sensors, Biochips	G. Kanagavalli

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

Fabrication Techniques For Mems Based Sensors Clinical Perspective

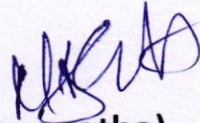
List Of Participants

Date: 22-4-2019

Sl.No	REG.NO	NAME OF THE CANDIDATE
1.	U14EC051	INDU GOPE
2.	U14EC052	JERALD.M.S
3.	U14EC053	KAKARAPARTHY CHITRA HARSHAN
4.	U14EC054	KAKIMANI.VAMSI KRISHNA
5.	U14EC055	KAKULETI BALA PHANI KUMAR
6.	U14EC056	KALAI ARASI.M
7.	U14EC057	KALUMURI VIJAYA KUMAR REDDY
8.	U14EC058	KAMIREDDY SAI VEERA LAKHSMI MONIKA
9.	U14EC059	KANALA RAMANJANEYA REDDY
10	U14EC060	KANIKE SAIPRAKASH
11	U14EC061	KANNA SHIVA KRISHNA
12	U14EC062	KATIPELLI JEEVAN REDDY
13	U14EC063	KATTA ARUN REDDY
14	U14EC064	KODI.BHARADWAJ REDDY
15	U14EC065	KOKATI GEETADITYA RAMKAPIL
16	U14EC066	MANAM KOKILA.

17	U14EC067	KOMMANI DIVYA SREE
18	U14EC068	KOMMIDI PUNNAM CHANDER
19	U14EC069	KONAIHAGARI NAGA VAMSI KRISHNA
20	U14EC070	KONDA MOHITH KUMAR REDDY
21	U14EC071	KONDURI SURENDRAREDDY
22	U14EC072	KONDURU PAVAN SAI
23	U14EC073	KOTA VIDYA SAGAR
24	U14EC074	MADDELA MANIKANTA
25	U14EC075	SINGAMALA MALLIKARJUNA REDDY
26	U14EC076	MANCHIKATLA SURYA TEJA
27	U14EC077	ALURU MANIRATHNAM.
28	U14EC078	MANNEM MAHANTH REDDY
29	U14EC079	MANTU KUMAR SINGH
30	U14EC080	MARKA RAJ KUMAR
31	U14EC081	MAYANK HARSHIT
32	U14EC082	MD.FAIYAZ ALAM
33	U14EC083	MEENAAKSHI S
34	U14EC084	MELARGOAD KALATTAR RAKESH
35	U14EC086	MOHAMED KASHIFUDDIN.B
36	U14EC087	MOLABANTI SAI KARTHIK
37	U14EC088	VASIREDDY MOUNIKA.
38	U14EC089	MUDRAKOLLA SURESH SACHIN
39	U14EC090	MUTYALA SAI HARISHITHA
40	U14EC091	NADENDLA VANAJA
41	U14EC092	NAGUNOORI SANKIRTH KUMAR

42	U14EC093	NALAMARU RAVALI
43	U14EC095	NARESH .I
44	U14EC096	MOGAL NASEER.
45	U14EC097	MATHEGAM NIHAL REDDY
46	U14EC098	NILKAMAL KUMAR
47	U14EC099	PADALA SUBRAHMANYAM
48	U14EC100	PALAPARTHI RAMBABU
49	U14EC101	PANDEM RAGHAVENDRA REDDY
50	U14EC102	PAPIJENNI RAMANAREDDY
51	U14EC103	PAPUGANI PARTHASARADHI.
52	U14EC104	PEDINEEDI VIJAYA BHARGAVI
53	U14EC105	PEDDISETTI VINAY
54	U14EC106	PENGALAPATI BHARATHI
55	U14EC107	PILLI DANIEL PHILIP MOSES
56	U14EC108	PONNAGANTI MANOJ DEEP
57	U14EE057	RAYSHETTI KARTHIK BABU
58	U14EE058	TAMESHWAR BANJARE
59	U14EE059	NAMBALLA MADHU BABU
60	U14EE060	ADIKI SWARNA

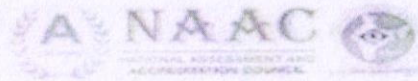

(Dr.M.Sangeetha)

HOD/ECE





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



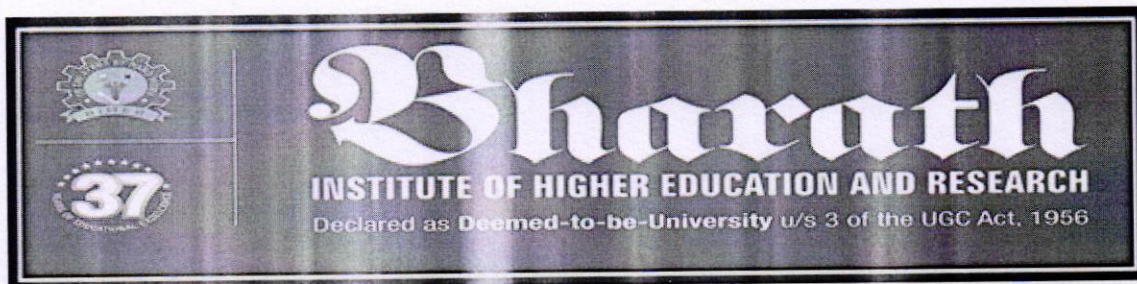
SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms **KALAI ARASI.M (U14EC056)**
has attended Value added Course On “**Fabrication Techniques For
Mems Based Sensors:Clinical Perspective**” organized by the School of
Electrical Engineering, BIHER conducted from 22-4-2019 to 26-4-2019.

BALAJI S
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR



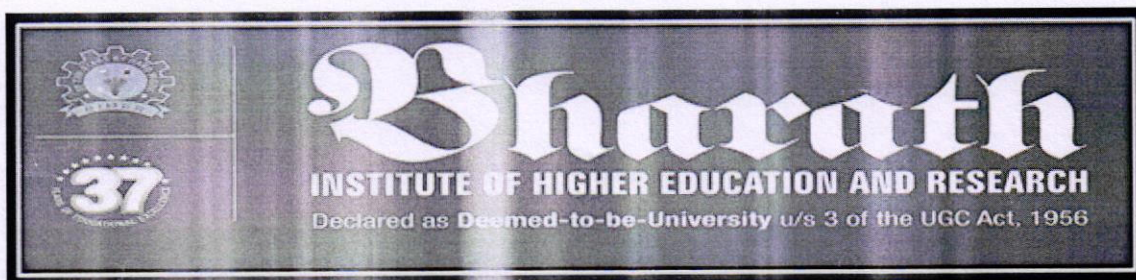
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Fabrication Techniques For MemS Based Sensors Clinical Perspective

FEED BACK FORM		Date: 26-4-2019			
Name	ADIKI SWARNA				
Register number	U14EE060				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


 Student Signature



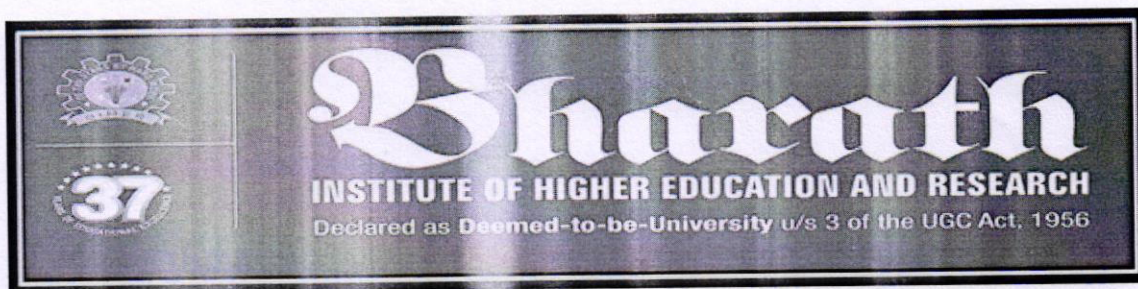
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Fabrication Techniques For Mems Based Sensors Clinical Perspective

FEED BACK FORM		Date:26-4-2019			
Name	Nelkamel kumar.				
Register number	U14 EC098				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

Nelkamel kumar
Student Signature

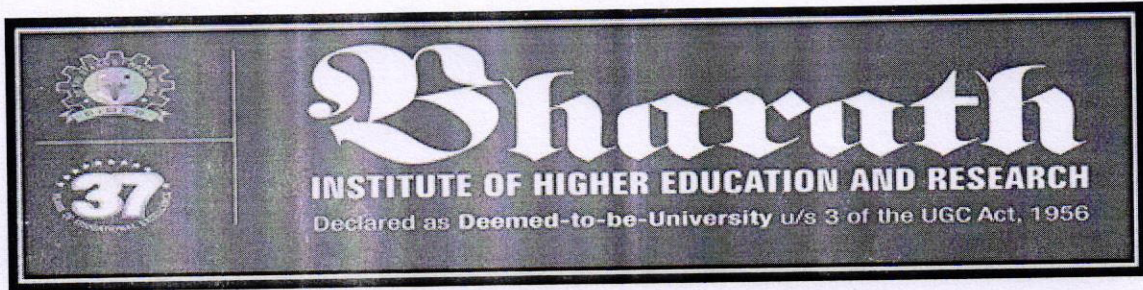


SCHOOL OF ELECTRICAL ENGINEERING

Course Fabrication Techniques For MemS Based Sensors Clinical Perspective

dated on 22-4-2019 conducted by school of Electrical Engineering





Requisition Letter

Date: 12.06.2018

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

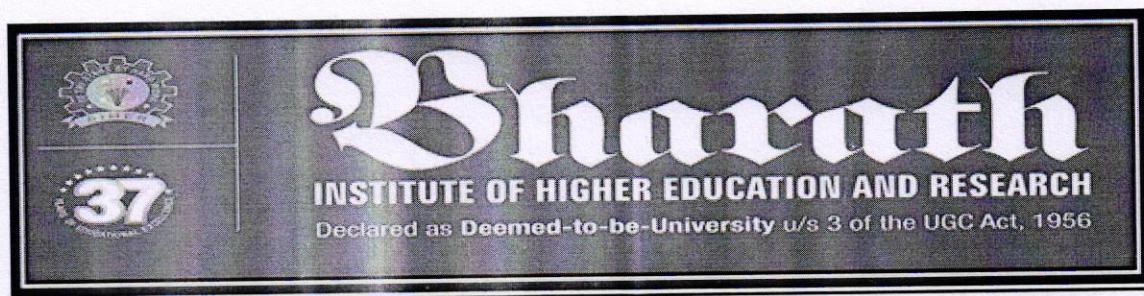
School of Electrical Engineering has planned to conduct Value added Course on "Mapping Signal Processing Algorithms To Architectures " on 22.04.2019. In this regard we kindly request you to grant permission for the same.

Thanking you

HOD/ECE



Dean Engineering



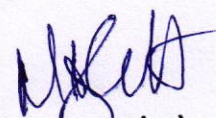
CIRCULAR

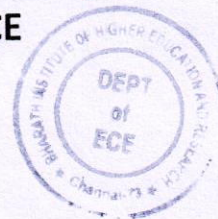
SCHOOL OF ELECTRICAL ENGINEERING

Date: 02.04.2019

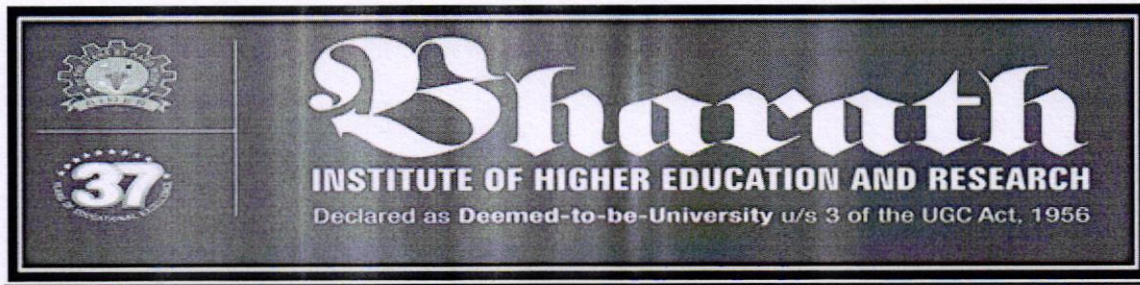
The course on Mapping Signal Processing Algorithms To Architectures is planned by School of Electrical Engineering which commences on 22-4-2019(Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: S.Balaji
Contact No:9566078080
Email id : balajis.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)

Mapping Signal Processing Algorithms To Architectures

Course Objective

Digital Signal Processing typically involves repetitive computations being performed on streams of input data, subject to constraints such as sampling rate or desired throughput. Often such systems need to be implemented under tight constraints on factors such as timing, resources, power or cost. When they are used in embedded systems, it is often worth the effort to design custom architectures that have much better cost tradeoffs than general purpose computing architectures. This course deals with the analysis of such algorithms, and mapping them to architectures that are either custom designed or have specific extensions that make them better suited to certain kinds of operations. Topics covered include fundamental bounds on performance, mapping to dedicated and custom resource shared architectures, and techniques for automating the process of scheduling. Aspects of architectures such as memory access, shared buses, and memory mapped accelerators will be studied. Assignments will cover various aspects of the design process, starting from implementing and testing specifications, to synthesis and scheduling using high level synthesis tools, and analyzing and improving the resulting architectures.

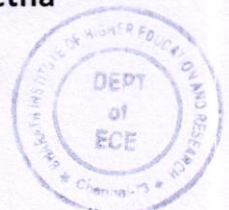
Resource Persons :

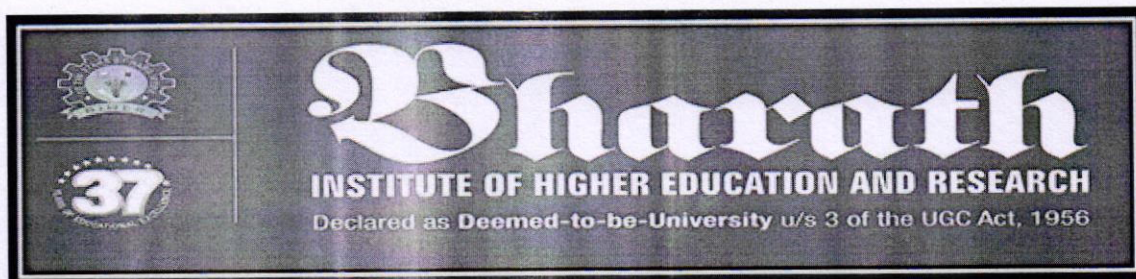
- 1.Hemalatha B
- 2.Sowmiya Manoj .M


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Mapping Signal Processing Algorithms To Architectures

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
22-4-2019	FN	9.00 am to 12.30 pm	Digital systems, DSP, computer architecture	Hemalatha B
	AN	1.30 pm to 4 pm	DSP system models; quality metrics and bounds; number representations	Sowmiya Manoj .M
23-4-2019	FN	9.00 am to 12.30 pm	Implementation: dedicated hardware; transforms; resource sharing;	Hemalatha B
	AN	1.30 pm to 4 pm	Architectures: programmable systems; FSMs and microprograms;	Sowmiya Manoj .M
24-4-2019	FN	9.00 am to 12.30 pm	Memory and communication systems: bus structures; DMA; networks-on- chip	Hemalatha B
	AN	1.30 pm to 4 pm	Specialized architectures: Systolic arrays;	Sowmiya Manoj .M
25-4-2019	FN	9.00 am to 12.30 pm	Scheduling: time and resource bounds; allocation	Hemalatha B
	AN	1.30 pm to 5 pm	instruction extensions; peripheral accelerators	Sowmiya Manoj .M
26-4-2019	FN	9.00 am to 12.30 pm	binding, scheduling, techniques	Hemalatha B
	AN	1.30 pm to 5 pm	CORDIC; GPU	Sowmiya Manoj .M

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

Mapping Signal Processing Algorithms To Architectures

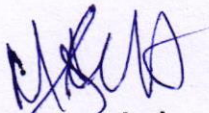
List Of Participants

Date: 22-4-2019

Sl.No	REG.NO	NAME OF THE CANDIDATE
1	U14EC001	AAKAASH THAKUR
2	U14EC002	AARTHI.P
3	U14EC003	ABBSETTY SAI NIHARIKA
4	U14EC004	K ABHILASH REDDY
5	U14EC006	ADDUGALA RAMA DEVI
6	U14EC007	ADHARSH.A .I
7	U14EC008	ADIREDDY PRAVEEN
8	U14EC010	AMARJEET KUMAR
9	U14EC011	R AMULYA
10	U14EC012	MAHAMKALI VENKATA SAI NANDAANIRUDH.
11	U14EC013	ANKIT KAUSHAL
12	U14EC014	ANNAPANENI VAMSIDHAR
13	U14EC015	ANUSHA.R
14	U14EC016	ARCHANA.R
15	U14EC017	ASARA ANITH RAO
16	U14EC018	BANKIM CHANDRA BHARTI

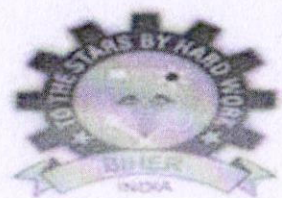
17	U14EC019	BEDDINTI PRAVEEN KUMAR
18	U14EC020	BETHALA MOURYA
19	U14EC021	BOJJA. VENKATA PRASAD
20	U14EC022	BOYAPATI PUSHYAMITHRA
21	U14EC023	CHALUVADI DIVYA BHARATHI
22	U14EC024	CHANDRALEKA.K
23	U14EC025	CHEKURI.VENKATA MAHESH
24	U14EC026	CHINTA ANVESH
25	U14EC027	DAMMALAPATI RAHUL DIVYESH
26	U14EC028	DEBAJIT HAZARIKA
27	U14EC029	DEENADHAYALAN.A
28	U14EC030	DEEPAK KUMAR
29	U14EC031	DEEPAK.A
30	U14EC032	DESHI VENKATESH
31	U14EC033	N DHEERAJ
32	U14EC034	DOLLY NISHA J.S.
33	U14EC035	DUVVURU SREENIVASA TEJA
34	U14EC036	EJJAGIRI PRAVEEN
35	U14EC037	VIJAYA LAKSHMI EJJI
36	U14EC038	GADDI TEJA RAM
37	U14EC039	GADE MALLA REDDY
38	U14EC040	GARAGA SIVA SURYA DEEPAK
39	U14EC041	S GOKUL
40	U14EC042	GOURU VENKATA SAI PRAKASH
41	U14EC043	GOVINDUGARI NITHIN REDDY

42	U14EC044	GUJJARI SHIVADURGA PRASAD
43	U14EC001	AAKAASH THAKUR
44	U14EC002	AARTHI.P
45	U14EE001	ABENASH.R
46	U14EE002	ABHISHEK KUMAR
47	U14EE003	AJAY KUMAR MISHRA
48	U14EE004	AJMEERA. SWAPNA

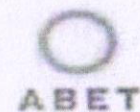

(Dr.M.Sangeetha)

HOD/ECE





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



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms **ABBISSETTY SAI NIHARIKA(U14EC003)**

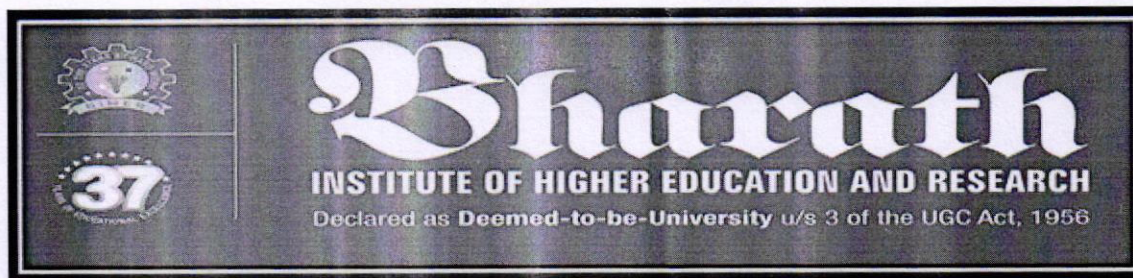
has attended Value added Course On “Mapping Signal Processing
Algorithms To Architectures” organized by the School of Electrical
Engineering, BIHER conducted from 22-4-2019 to 26-4-2019.

S. Balaji

BALAJI S
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR

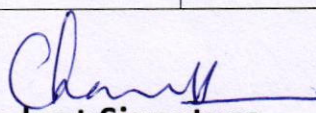


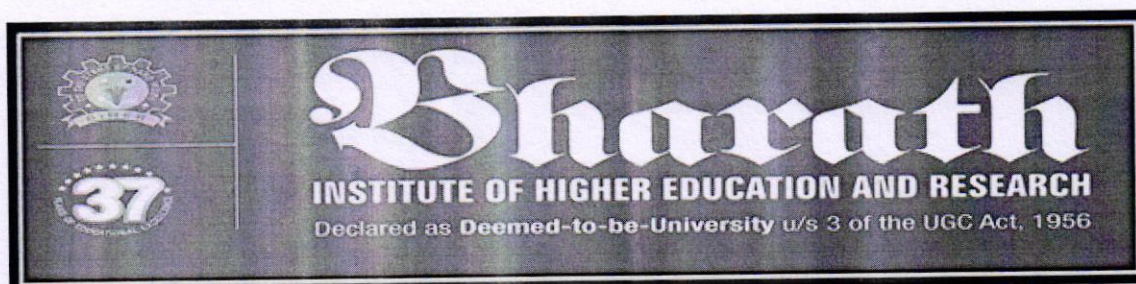
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Mapping Signal Processing Algorithms To Architectures

FEED BACK FORM		Date:26-4-2019			
Name	BHANKIM CHANDRA BHARATHI				
Register number	V4EC018				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


 Student Signature



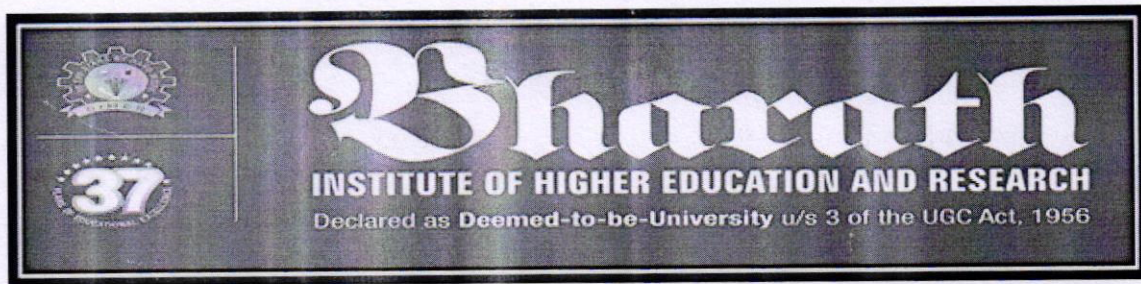
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Mapping Signal Processing Algorithms To Architectures

FEED BACK FORM		Date: 26-4-2019			
Name	ABHISHEK KUMAR				
Register number	V14EE002				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs					✓

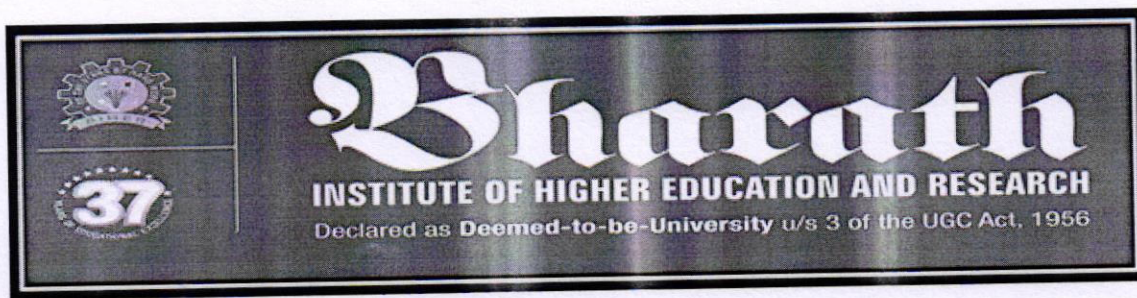

 Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Mapping Signal Processing Algorithms To Architectures dated on 22-4-2019 conducted by school of Electrical Engineering





Requisition Letter

Date: 12.03.2019

From

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

To

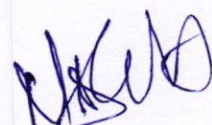
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,


SUB : Requisition for conducting Value Added Course-Regd

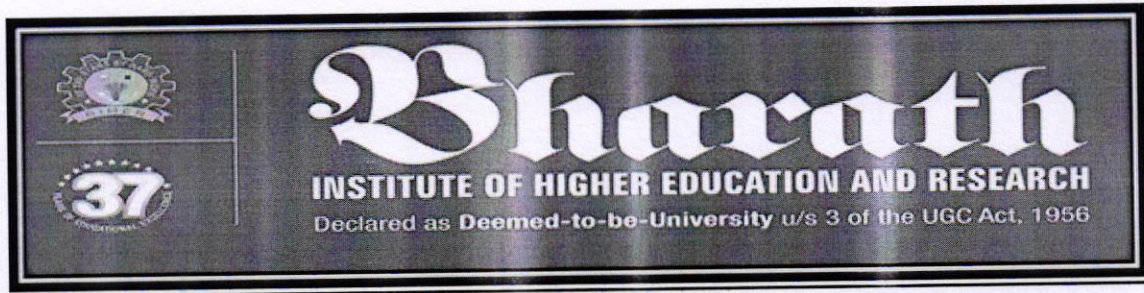
School of Electrical Engineering has planned to conduct Value added Course on "Principles And Techniques Of Modern Radar Systems " on 22.04.2019. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



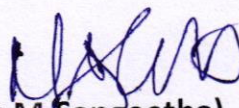
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 02.04.2019

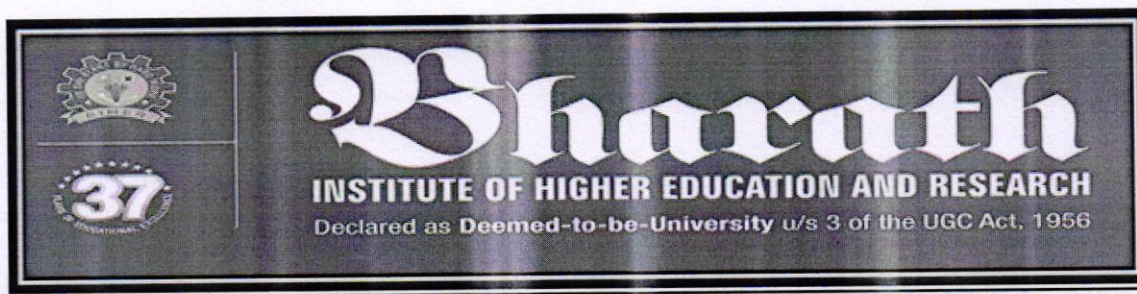
The course Principles And Techniques Of Modern Radar Systems is planned by School of Electrical Engineering which commences on 22-4-2019 (Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: S.Balaji
Contact No: 9566078080
Email id : balajis.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)


Principles And Techniques Of Modern Radar Systems

Course Objective

The course "Principles and Techniques of Modern Radar Systems" covers a broad spectrum of the radar system design and analysis, starting with the basic concepts of microwave radar principles. It first develops a simplified model called "radar range equation" to introduce the basic concepts of the Radar. Then it introduces the simple CW Radar and shows its limitations and how that can be overcome with the help of frequency modulation. Then it introduces the concept of pulsed radar to increase the range of the radar detection. Thereafter the concept of MTI filtering to discriminate clutter in the Doppler domain is introduced and performance metric of MTI filtering is introduced. The drawback of MTI filtering in airborne radar is introduced next to highlight the concept of pulsed Doppler radar. Thereafter tracking radar is introduced along with monopulse concept to measure angular position of a target with very high accuracy. Then the detection theory is introduced by elaborate description of match filtering, ambiguity function, range resolution and Doppler resolution concepts. Thereafter pulse compression is introduced to increase the downrange resolution and synthetic aperture processing to increase cross range resolution.

Resource Persons :

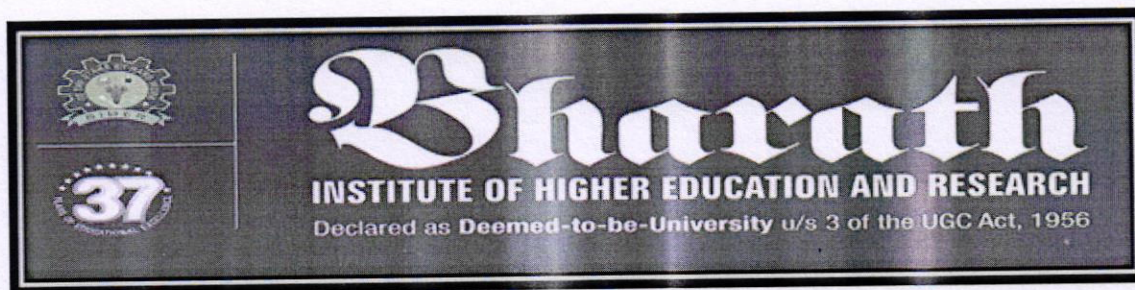
1. Dr.B.Karthik
2. Dr.M.Jasmin


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Principles And Techniques Of Modern Radar Systems

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
22-4-2019	FN	9.00 am to 12.30 pm	Basic Principles: Radar equation, Radar Cross section	Dr.B.Karthik
	AN	1.30 pm to 4 pm	CW Radar, FMCW Radar	Dr.M.Jasmin
23-4-2019	FN	9.00 am to 12.30 pm	Pulsed Radar Principles	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Clutter Analysis, MTI Improvement Factor, Pulsed Doppler Radar	Dr.M.Jasmin
24-4-2019	FN	9.00 am to 12.30 pm	Tracking Radar, Angular resolution, Monopulse Technique	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Detection Theory: Match Filtering, Radar Ambiguity Function	Dr.M.Jasmin
25-4-2019	FN	9.00 am to 12.30 pm	Imaging Radar: Resolution Concept, Pulse Compression	Dr.B.Karthik
	AN	1.30 pm to 5 pm	Synthetic Aperture Processing, ISAR Imaging	Dr.M.Jasmin
26-4-2019	FN	9.00 am to 12.30 pm	Probability of false alarm and Detection, Modified Radar Range Equation with Swerling Models	Dr.B.Karthik
	AN	1.30 pm to 5 pm	Ground Penetrating Radar for close sensing	Dr.M.Jasmin

VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING
Principles And Techniques Of Modern Radar Systems

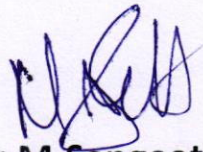
List Of Participants

Date: 22-4-2019

Sl.No	REG.NO	NAME OF THE CANDIDATE
1.	U14EC113	PUNUGOTI ANUSHA
2.	U14EC114	RACHAMADUGU MANISH
3.	U14EC115	RACHUMALLA LOKESH REDDY
4.	U14EC116	KAKUMANU RADHA RANI
5.	U14EC117	PAWAR.SUSHEEL KUMAR
6.	U14EC118	VANGUMALLA REDDY SOWMYA
7.	U14EC119	RACHAPALLI SAI MOHAN
8.	U14EC120	SAI RINITHA.K
9.	U14EC121	SALUMURI RAVI TEJA
10	U14EC123	CHEEDELLA SARACCHANDRA.
11	U14EC124	SARANYA .D.
12	U14EC125	SATHYA NARAYAN .R
13	U14EC126	SHAIK AKHIL
14	U14EC127	SHAIK RABBANI BASHA
15	U14EC128	SHAIK.ALEEM
16	U14EC129	NAGILLA SHIVA
17	U14EC130	P SHOPIC

18	U14EC131	SINGAMREDDY MUKUNDESWAR REDDY
19	U14EC132	SIRIYAPU AKESH REDDY
20	U14EC133	SOMAROWTHU PRIYANKA NAGAVARDHANI
21	U14EC134	SONAPARI KUMARI
22	U14EC135	SOURABH KUMAR VERMA
23	U14EC136	K SRAVANI
24	U14EC137	SRILADAGUDAM VANGATE SHALINI
25	U14EC138	SRINIVASAN .S
26	U14EC139	SRIRAMULA PRANAV
27	U14EC140	SUSHEEL RANJAN
28	U14EC141	SWETHA HARIDASAN
29	U14EC142	SWETHAA SHREE S
30	U14EC143	SYED ASMA THUNNISA
31	U14EC144	SYED NAZIM PASHA KHADRI
32	U14EC145	SYED SADIK
33	U14EC146	TAMIL SELVI .K
34	U14EC147	RANGASAMUDRAM TEJASWINI
35	U14EC148	THILLAI VANI.S
36	U14EC149	THIRUVATTURU HARIKRISHNA
37	U14EC150	THIYAGARAJAN.R
38	U14EC151	THOODI SHEKAR REDDY
39	U14EC152	KADIYAL VAMSI KRISHNA.
40	U14EC153	BEERE UMA MAHESH
41	U14EC155	VADDE PAVAN PRASAD

42	U14EC156	VADDE VALLI VASU
43	U14EE033	PRIYESH KUMAR PANDEY
44	U14EE034	RAJ KISHOR DAS
45	U14EE035	RAJ KUNDAN


 (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)



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

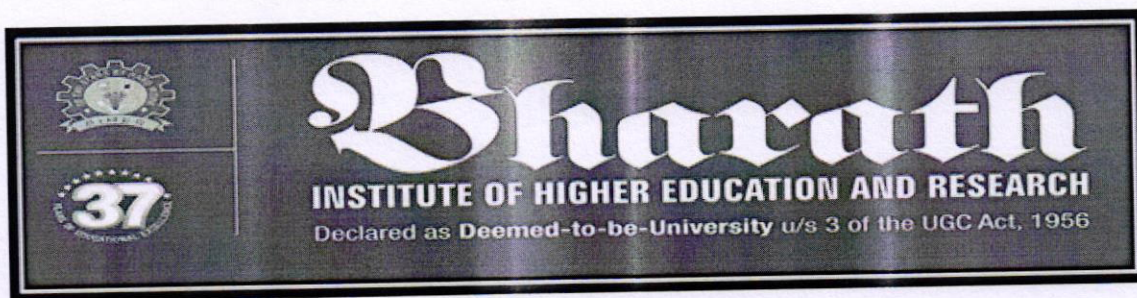
This is to certify that Mr / Ms **PRIYESH KUMAR PANDEY (U14EE033)**
has attended Value added Course On **“Principles And Techniques Of
Modern Radar Systems”** organized by the School of Electrical
Engineering, BIHER conducted from 22-4-2019 to 26-4-2019.

S. Balaji

BALAJI S
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR



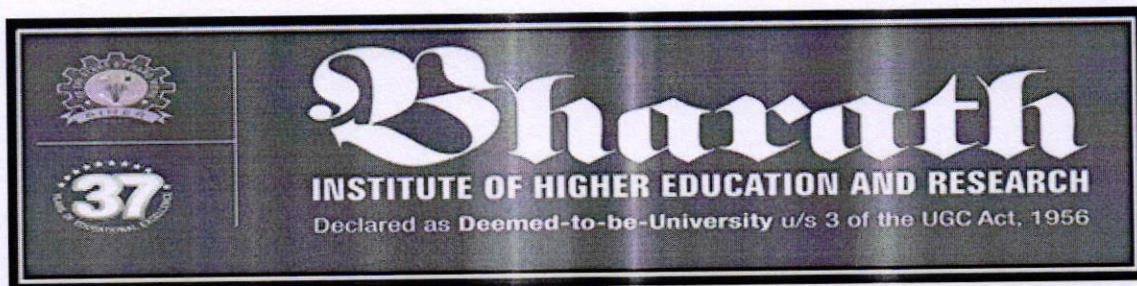
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Principles And Techniques Of Modern Radar Systems

FEED BACK FORM		Date: 26-4-2019			
Name	P. SHOPIC				
Register number	U14EC130				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

[Signature]
Student Signature

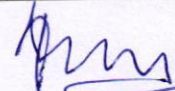


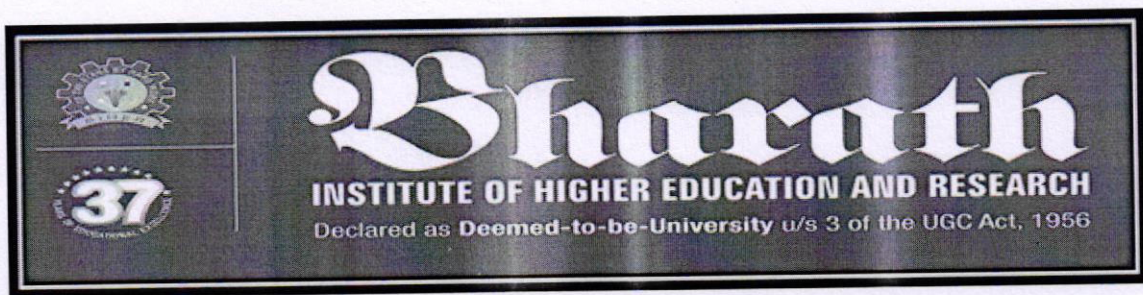
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Principles And Techniques Of Modern Radar Systems

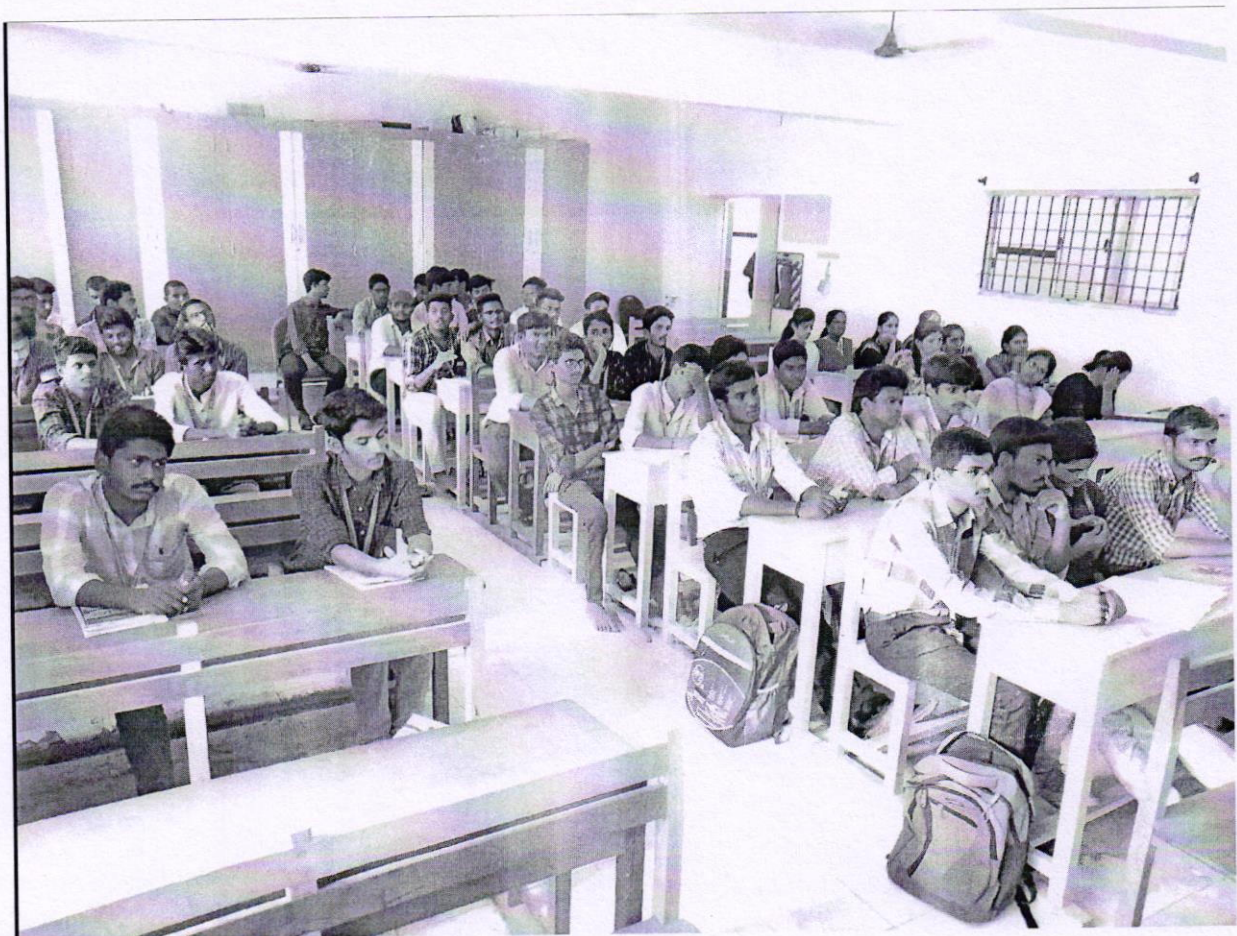
FEED BACK FORM		Date: 26-4-2019			
Name	RAJ KUNDAN				
Register number	U14EE035				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

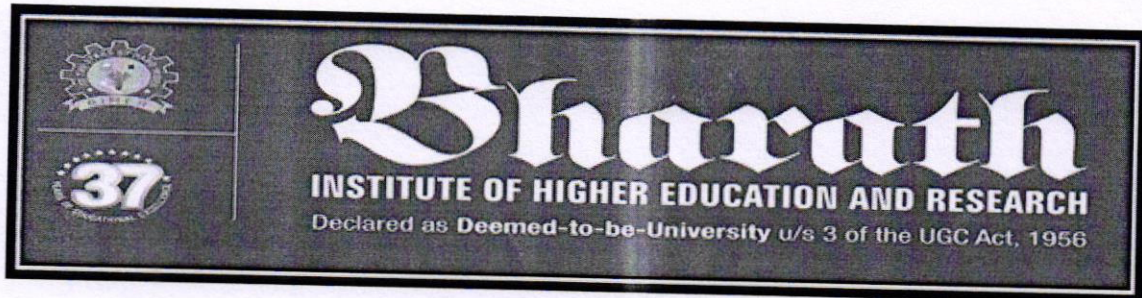

 Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Principles And Techniques Of Modern Radar Systems dated on 22-4-2019 conducted by school of Electrical Engineering





Requisition Letter

Date: 10.07.2018

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

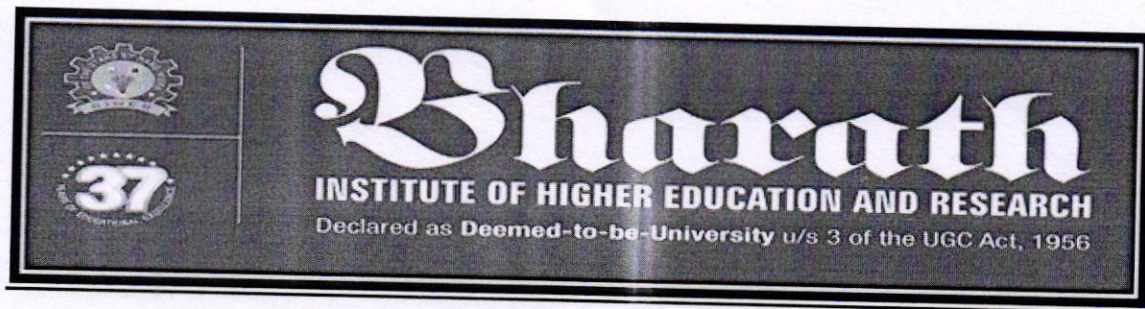
School of Electrical Engineering has planned to conduct Value added Course on **"Hand on Training PCB Design and Fabrication"** on 02.08.2018. In this regard we kindly request you to grant permission for the same.


HOD/ECE



Thanking you


Dean Engineering



CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

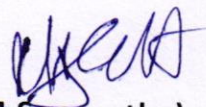
Date: 12.07.2018

The course on “**Hand on Training PCB Design and Fabrication**” is planned by School of Electrical Engineering which commences on 02-08-2018 (Thursday). 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

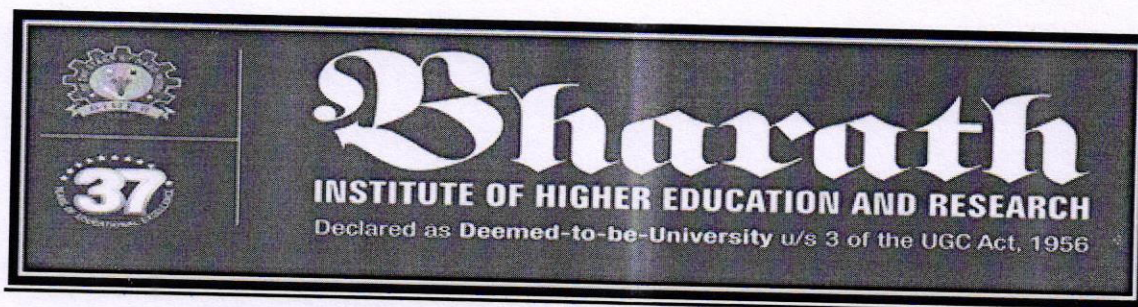
Contact No: 9841403233

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)

Hand on Training PCB Design and Fabrication

Course Objective

This is a basic course for designing of PCB using software. PCB (Printed Circuit Board) designing is an integral part of each electronics products and this program is designed to make students capable to design their own projects PCB up to industrial grade. Learn to draw schematics, convert schematics to layout. Do pre-production planning, printing, CNC operator, quality inspector, production job in a fixed timeline. Designing single/double side PCB. CNC programming. Routing techniques. Planning. Screen printing. Plating. Manual drilling. Inspection. Photo tooling.

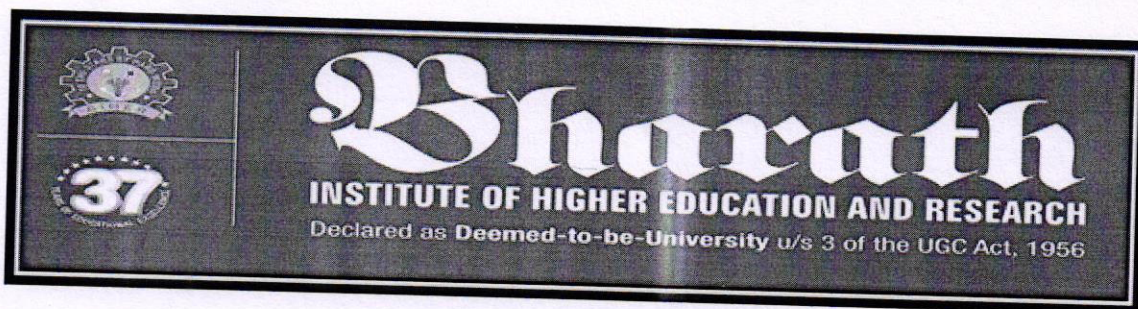
Resource Persons :

1. Dr.S.Arulselvi
2. Ms. M.Sowmiya Manoj
3. Mr. S.Balaji


Convener

Dr.M.Sangeetha
HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Hand on Training PCB Design and Fabrication

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
2-8-2018	FN	9.00 am to 12.30 pm	Brief History of EDA ,Latest Trends in Market , Different EDA tools, Introduction to SPICE and PSPICE Environment, Introduction and Working of PROTEUS	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Through Hole Packages-Axial lead, Radial Lead, Single Inline Package(SIP), Dual InlinePackage(DIP),Transistor Outline(TO) o Pin Grid Array(PGA)	Ms. M.Sowmiya Manoj
3-8-2018	FN	9.00 am to 12.30 pm	Through Hole Packages o Metal Electrode Face(MELF),Leadless Chip Carrier(LCC) ,Small Outline Integrated Circuit(SOIC), Quad Flat Pack(QFP) and Thin QFP (TQFP), Ball Grid Array(BGA),Plastic Leaded Chip Carrier(PLCC)	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Introduction to PCB Design using OrCAD tool,Introduction to PCB Design using PROTEUS tool	Mr. S.Balaji
4-8-2018	FN	9.00 am to 12.30 pm	Schematic Entry , Net listing, PCB Layout Designing ,Prototype Designing, Design Rule Check(DRC), Design For Manufacturing (DFM), PCB Making, Printing,Etching,Drilling, Assembly of components	Ms. M.Sowmiya Manoj
	AN	1.30 pm to 4 pm	Description of PCB Layers,Electrical Layers-Top Layer, Mid Layer, Bottom Layer ,Mechanical Layers,Board Outlines and Cutouts,Drill Details, Documentation Layers,Components Outlines,Reference	Mr. S.Balaji

			Designation ,Text	
6-8-2018	FN	9.00 am to 12.30 pm	IPC Standard For Schematic Design,IPC Standard For PCB Designing IPC Standard For PCB Materials,IPC Standard For Documentation and PCB Fabrication	Dr.S.Arulselvi
	AN	1.30 pm to 5 pm	Introduction to Auto routing,Setting up Rules,Defining Constraints, Auto router Setup	Ms. M.Sowmiya Manoj
7-8-2018	FN	9.00 am to 12.30 pm	PCB Designing of Basic and Analog Electronic Circuits, PCB Designing of Power Supplies,PCB Designing of Different Sensor modules,PCB Designing of Electronics Projects,PCB Designing of Embedded Projects	Mr. S.Balaji
	AN	1.30 pm to 5 pm	Printing the Design-Etching,Drilling, Interconnecting and Packaging electronic Circuits (IPC) Standards,Gerber Generation,Soldering and De-soldering, Component Mounting,PCB and Hardware Testing	Ms. M.Sowmiya Manoj

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

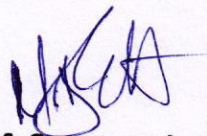
Hand on Training PCB Design and Fabrication

List Of Participants

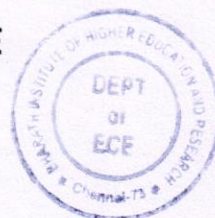
Date: 02.08.2018

Sl.No	REG.NO	NAME OF THE CANDIDATE
1	U13EC006	ARAVIND V
2	U13EC008	ASHIQUE ALAM
3	U13EC021	JAYED AHMED LASKAR
4	U13EC023	KUMARI PRIYANKA
5	U13EC036	SAGNATI VAISHNU VERMA RAJU
6	U13EC038	SHRUTHI T S
7	U13EC039	SHUBHAM KUMAR
8	U13EC042	UTTAM KUMAR
9	U13EC043	VARSHA KUMARI
10	U13EC046	YAMINISHA K
11	U13EC047	ZAHID AHMED
12	U13EC048	BHUVANAPRIYA R
13	U13EC504	VIGNESH M
14	U13EC507	THAMIZH THENDRAL R
15	U13EC702	SUGENTHAN .T
16	U14EC008	ADIREDDY PRAVEEN
17	U14EC010	AMARJEET KUMAR
18	U14EC011	R AMULYA
19	U14EC019	BEDDINTI PRAVEEN KUMAR
20	U14EC108	PONNAGANTI MANOJ DEEP
21	U14EC024	CHANDRALEKA.K
22	U14EC029	DEENADHAYALAN.A
23	U14EC036	EJJAGIRI PRAVEEN
24	U14EC042	GOURU VENKATA SAI PRAKASH
25	U14EC130	P SHOPIC
26	U14EC131	SINGAMREDDY MUKUNDESWAR REDDY
27	U14EC137	SRILADAGUDAM VANGATE SHALINI
28	U14EC139	SRIRAMULA PRANAV
29	U14EC144	SYED NAZIM PASHA KHADRI

30	U14EC103	PAPUGANI PARTHASARADHI.
31	U14EC146	TAMIL SELVI .K
32	U14EC151	THOODI SHEKAR REDDY
33	U13EE011	DEEPAK KUMAR
34	U13EE026	PRAVEEN M
35	U14EE054	YOGESHWARAN .D


(Dr.M.Sangeetha)

HOD/ECE





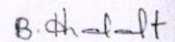
Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



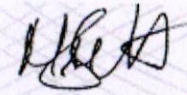
SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

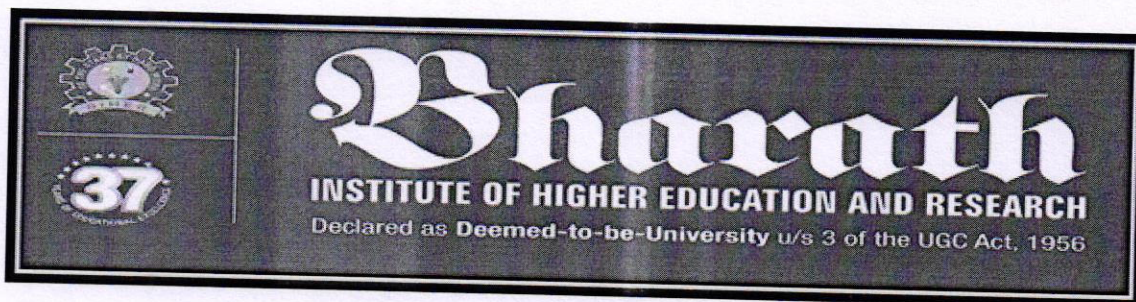
This is to certify that Mr / Ms SRIRAMULA PRANAV (U14EC139)
has attended Value added Course On “Hand on Training PCB Design
and Fabrication” organized by the School of Electrical Engineering,
BIHER conducted from 02-08-2018 to 07-08-2018.



B.HEMALATHA
COURSE COORDINATOR



Dr.M.SANGEETHA
CONVENOR



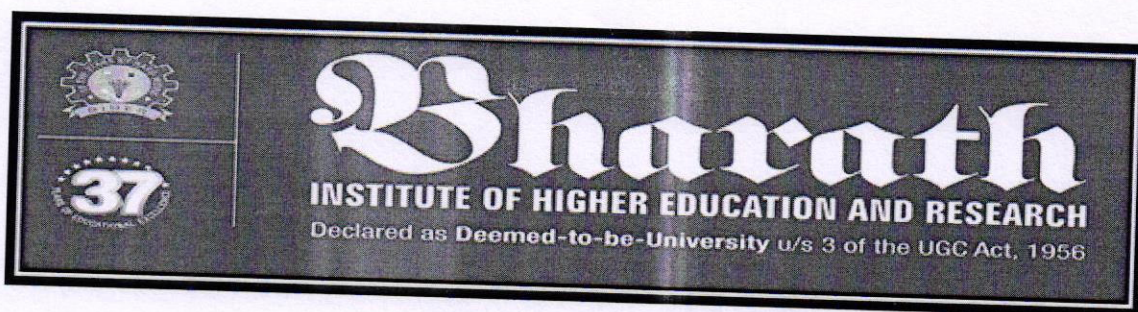
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hand on Training PCB Design and Fabrication

FEED BACK FORM		Date: 08.08.2018			
Name	VI GINE SH. M				
Register number	U13 EC 504				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs			✓		


Student Signature



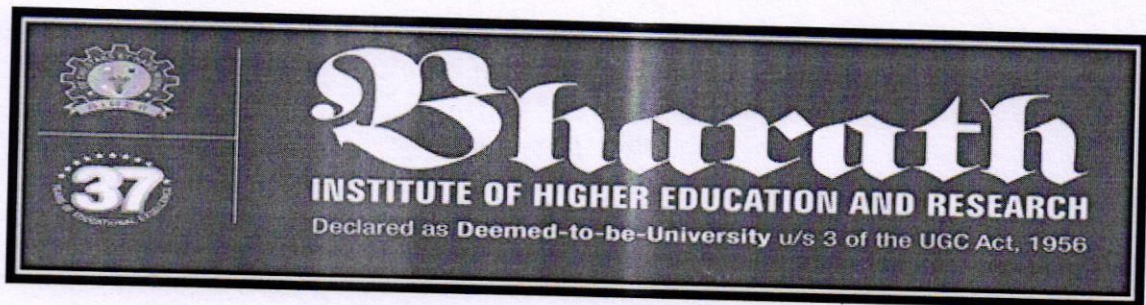
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hand on Training PCB Design and Fabrication

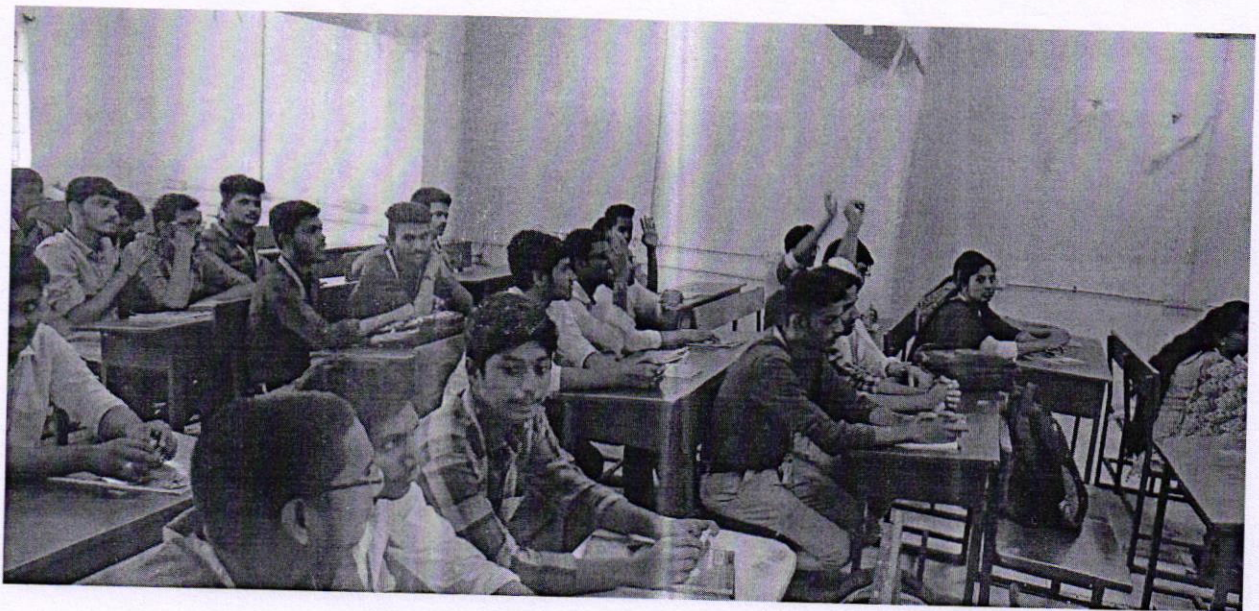
FEED BACK FORM		Date: 08.08.2018			
Name	Praveen.H.				
Register number	V13EE026				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					
The Speaker					
Audio, Visual Aids Technology used					
Presentation hand outs					

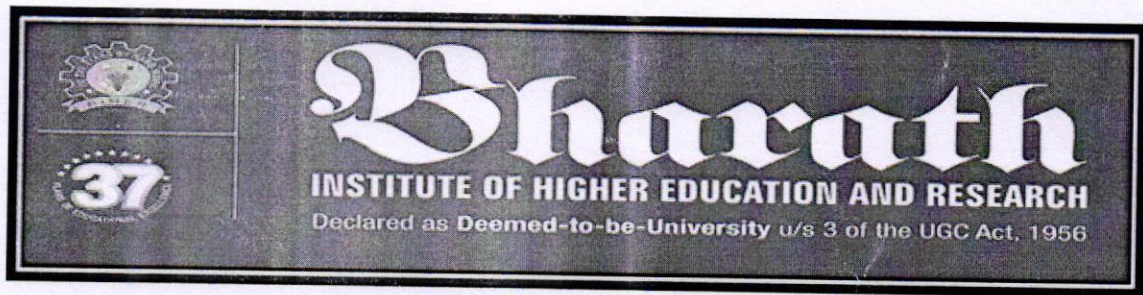
Praveen
Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on "Hand on Training PCB Design and Fabrication" dated on 02.08.2018 conducted by school of Electrical Engineering





Requisition Letter

Date: 22.08.2018

From

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

To

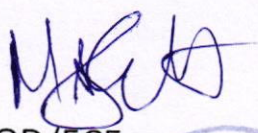
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,


SUB: Requisition for conducting Value Added Course-Regd

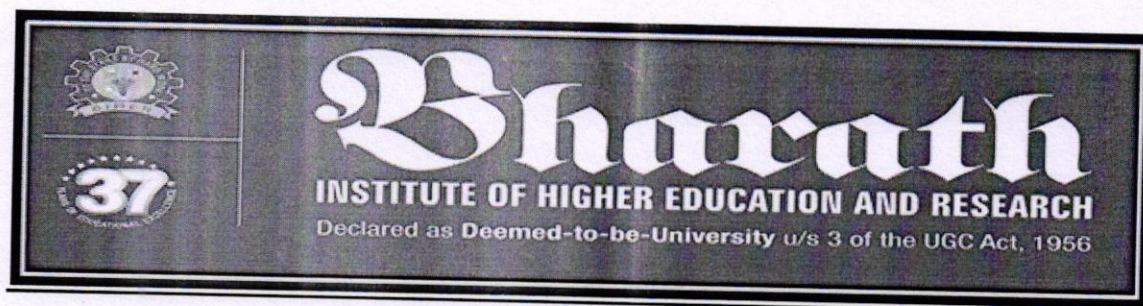
School of Electrical Engineering has planned to conduct Value added Course on **"Hands on Training Embedded System Design using Arduino"** on 19.09.2018. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



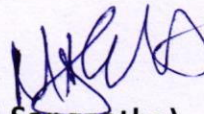
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

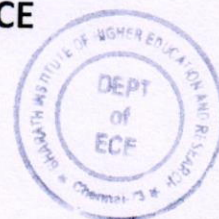
Date: 24.08.2018

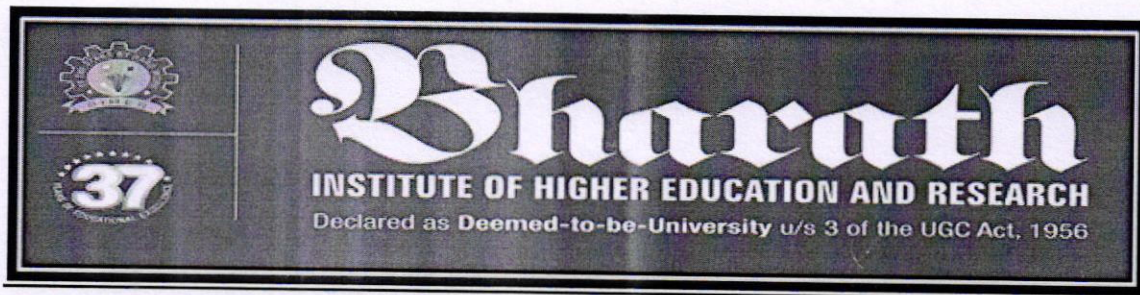
The course on "Hands on Training Embedded System Design using Arduino" is planned by School of Electrical Engineering which commences on 19-9-2018(Wednesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted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

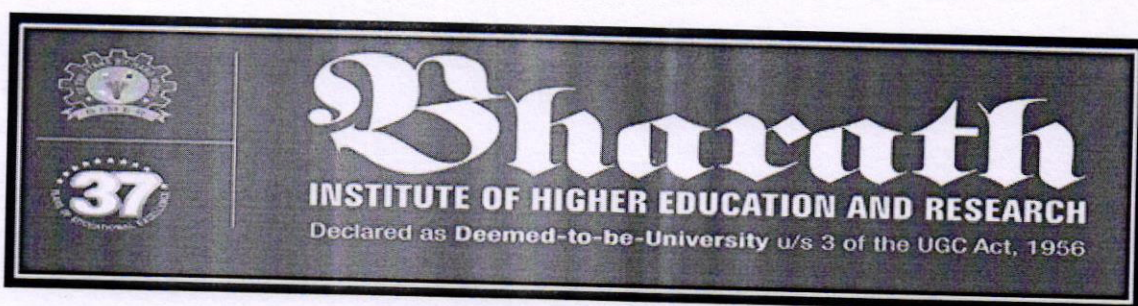
1. Dr.B.Karthik
- 2.Ms. M.Sowmiya Manoj
- 3.Ms.K.Subbhulakshmi


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.Subbhulak shmi
	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

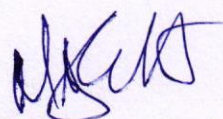
"Hands on Training Embedded System Design using Arduino"

List Of Participants

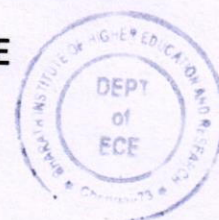
Date: 19.09.2018

Sl.No	REG.NO	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

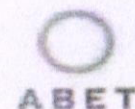
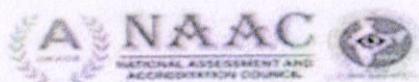

(Dr.M.Sangeetha)

HOD/ECE





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



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

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

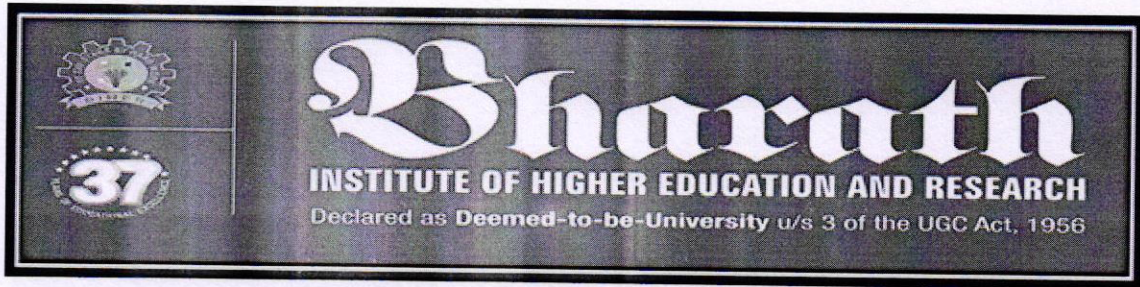
has attended Value added Course On “*Hands on Training Embedded System Design using Arduino*” organized by the School of Electrical Engineering, **BIHER** conducted from **19-09-2018 to 24-09-2018**.

B. Hemalatha

B.HEMALATHA
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR



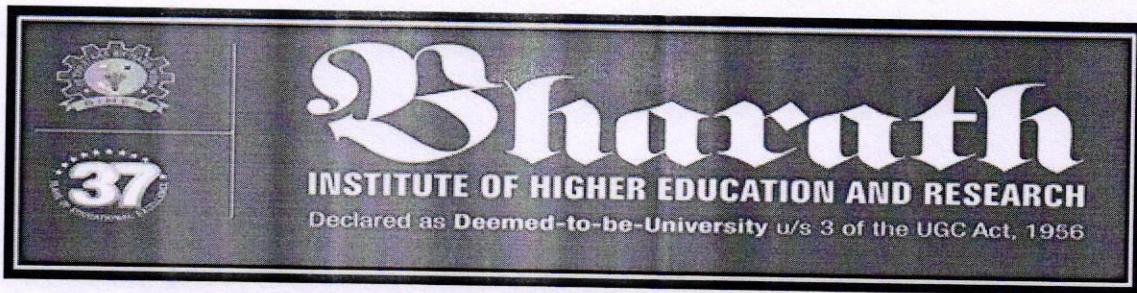
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training Embedded System Design using Arduino

FEED BACK FORM		Date: 24-9-2018			
Name	Bhuvanapriya				
Register number	V13EC048				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


Student Signature



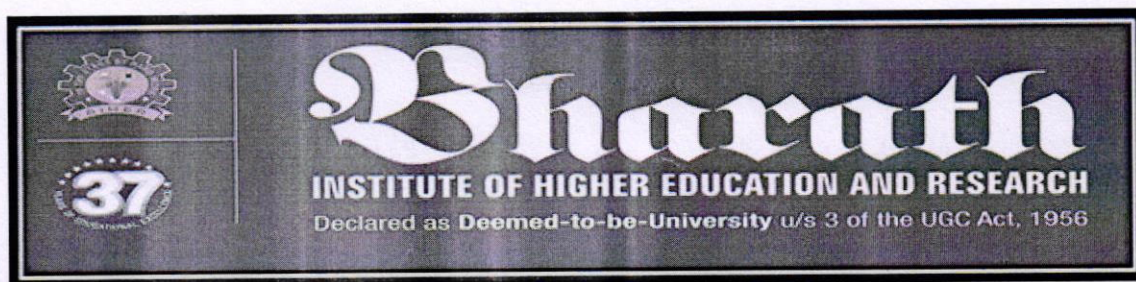
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training Embedded System Design using Arduino

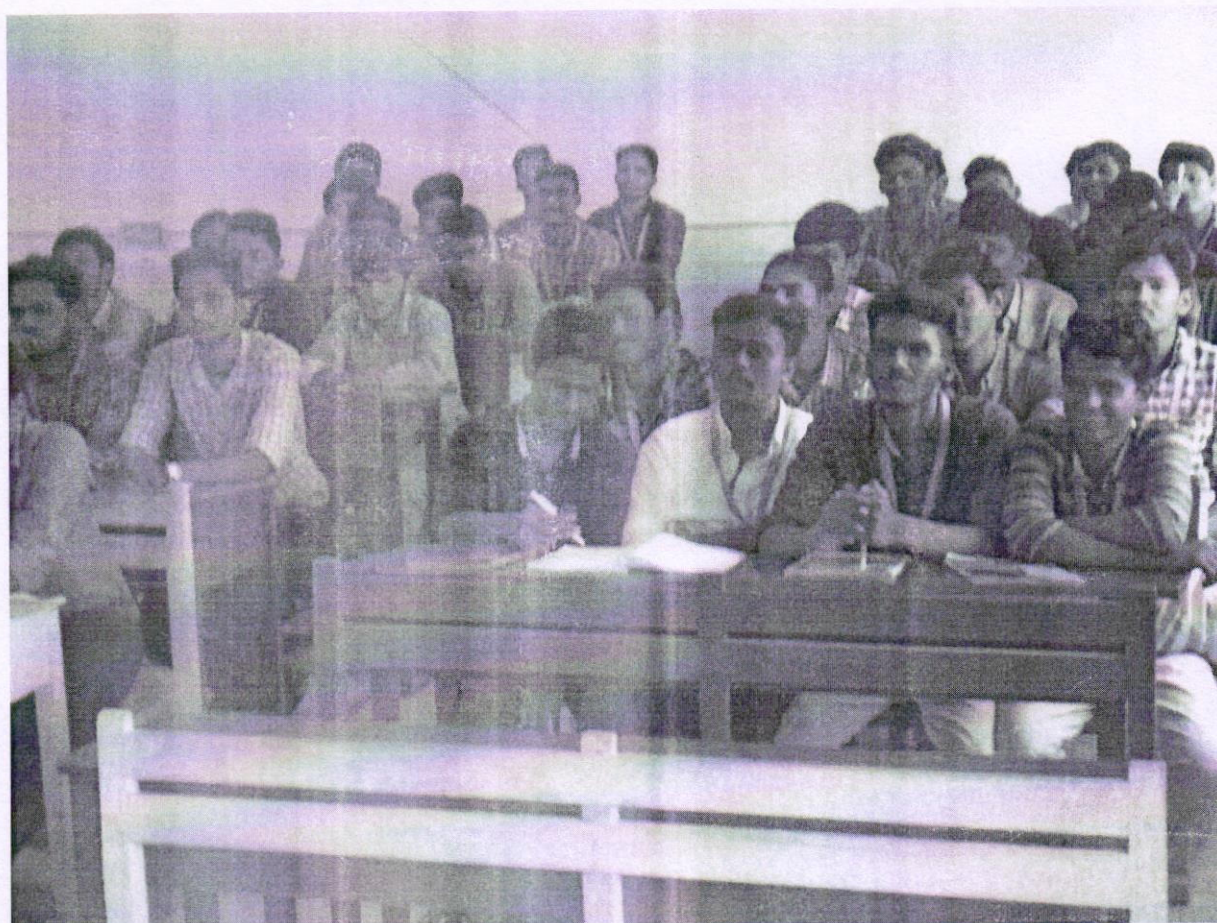
FEED BACK FORM		Date: 24-9-2018			
Name	PARTHIBAN.P				
Register number	V13EE501				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker					✓
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	

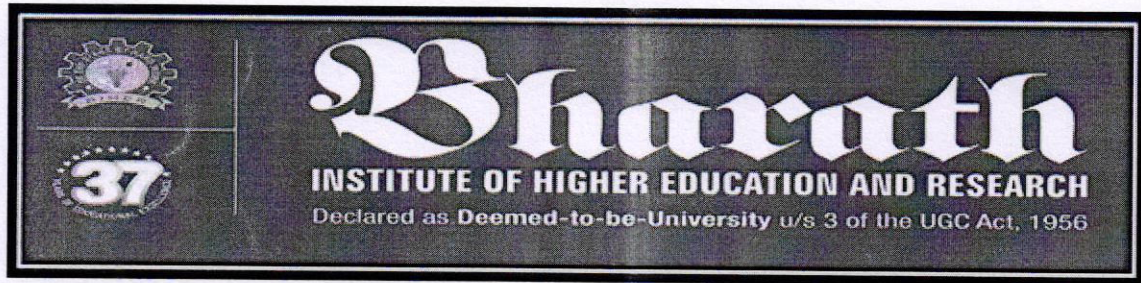
Parthiban
Student Signature



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





Requisition Letter

Date: 04.06.2018

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

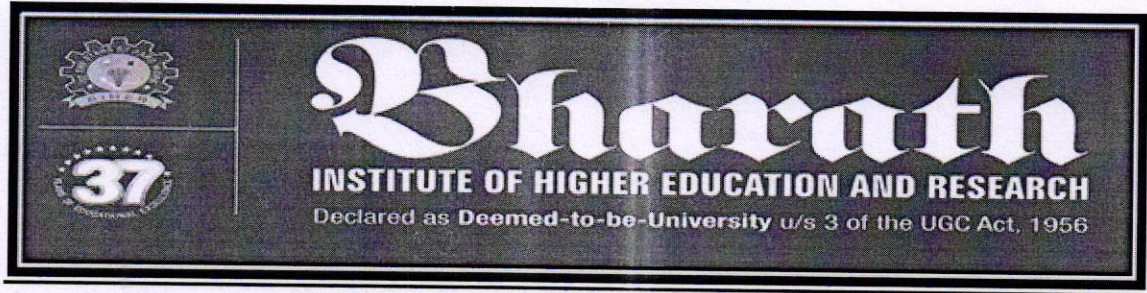
School of Electrical Engineering has planned to conduct Value added Course on "Hands on Training on LT Spice" on 04.07.2018. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



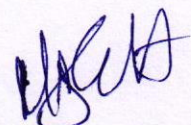
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 15.06.2018

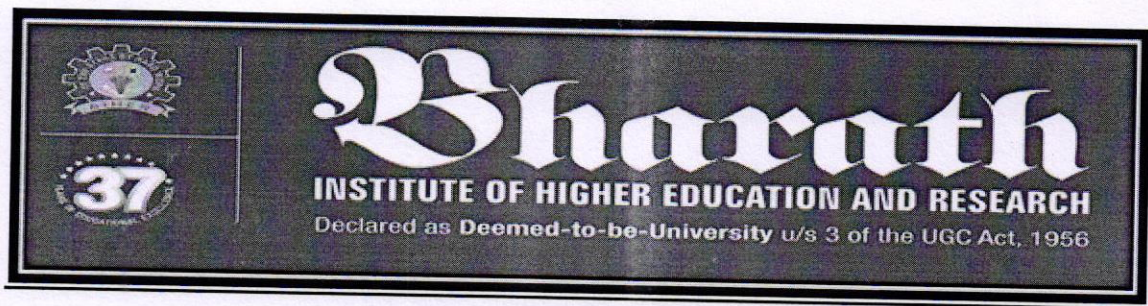
The course on Hands on Training on LT Spice is planned by School of Electrical Engineering which commences on 04.07.2018 (Wednesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: M. Sowmiya Manoj
Contact No: 7358747803
Email id : sowmiyamanoj.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)

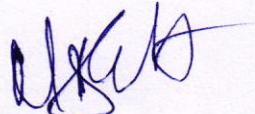
Hands on Training on LT Spice

Course Objective

LTspice is an outstanding software application for its power, its calculation speed and the universality of its applications. This is the software that must be used to produce high performance electronics in this century where demand for quality must go hand in hand with fast development. LTspice has been a direct descendant of this scientific and technical adventure. It is undoubtedly the fastest software, the most robust and most comprehensive of the electronic SPICE simulators. This course is intended for all electronics engineers who need to train themselves or deepen their mastery of LTspice, regardless of whether they are professionals in engineering firms or industry, students or engineering students.

Resource Persons :

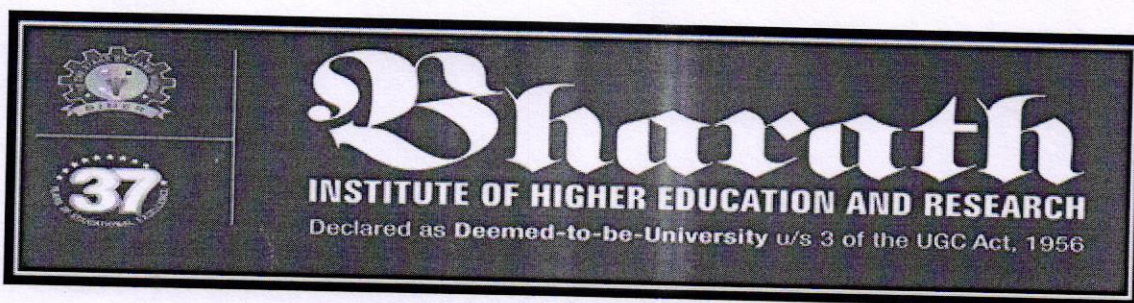
- 1.Ms.Meenakumari
- 2.Ms.S.Ramya
- 3.Ms.A.Johnpaul


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Hands on Training LT Spice

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
04.07.2018	FN	9.00 am to 12.30 pm	System Description, and Block and Circuit Level Specifications	Ms.Meenakumari
	AN	1.30 pm to 4 pm	GUI based SPICE simulation for basic Single stage amplifiers.	Ms.Ramya
05.07.2018	FN	9.00 am to 12.30 pm	Differential amplifier (fully differential and current mirror load)	Ms.Johnpaul
	AN	1.30 pm to 4 pm	2-stage OPAMP (with single ended and fully differential outputs).	Ms.Meenakumari
06.07.2018	FN	9.00 am to 12.30 pm	Feedback Amplifiers Circuits using OPAMP	Ms.Ramya
	AN	1.30 pm to 4 pm	Stability and compensation	Ms.Johnpaul
09.07.2018	FN	9.00 am to 12.30 pm	Design of common-mode feedback for fully differential OPAMP	Ms.Meenakumari
	AN	1.30 pm to 5 pm	Noise analysis for frontend amplifier. Week 6: Transistor level design for frontend amplifier and VGA	Ms.Ramya
10.07.2018	FN	9.00 am to 12.30 pm	Design and description of digital control	Ms.Johnpaul
	AN	1.30 pm to 5 pm	Transistor level implementation of Digital building blocks	Ms.Meenakumari

VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING

Hands on Training LT Spice

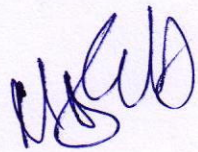
List Of Participants

Date:04.07.2018

Sl.No	REG.NO	NAME OF THE CANDIDATE
1	U14EC001	AAKAASH THAKUR
2	U14EC004	K ABHILASH REDDY
3	U14EC006	ADDUGALA RAMA DEVI
4	U14EC008	ADIREDDY PRAVEEN
5	U14EC010	AMARJEET KUMAR
6	U14EC012	MAHAMKALI VENKATA SAI NANDANIRUDH.
7	U14EC013	ANKIT KAUSHAL
8	U14EC014	ANNAPANENI VAMSIDHAR
9	U14EC015	ANUSHA.R
10	U14EC017	ASARA ANITH RAO
11	U14EC018	BANKIM CHANDRA BHARTI
12	U14EC019	BEDDINTI PRAVEEN KUMAR
13	U14EC020	BETHALA MOURYA
14	U14EC025	CHEKURI.VENKATA MAHESH
15	U14EC026	CHINTA ANVESH
16	U14EC027	DAMMALAPATI RAHUL DIVYESH
17	U14EC028	DEBAJIT HAZARIKA
18	U14EC029	DEENADHAYALAN.A

19	U14EC030	DEEPAK KUMAR
20	U14EC031	DEEPAK.A
21	U14EC033	N DHEERAJ
22	U14EC034	DOLLY NISHA J.S.
23	U14EC035	DUVVURU SREENIVASA TEJA
24	U14EC036	EJJAGIRI PRAVEEN
25	U14EC037	VIJAYA LAKSHMI EJJI
26	U14EC038	GADDI TEJA RAM
27	U14EC044	GUJJARI SHIVADURGA PRASAD
28	U14EC045	GULAM AHMED REJA
29	U14EC046	GUMMADEVELLI VINAY
30	U14EC047	GUNDA VENKATA MEHAR VINAY KUMAR
31	U14EC048	GUTTA MOHAN RANGA RAO
32	U14EC050	KATHA HARSHA VARDHAN REDDY
33	U14EC051	INDU GOPE
34	U14EC052	JERALD.M.S
35	U14EC053	KAKARAPARTHY CHITRA HARSHAN
36	U14EC054	KAKIMANI.VAMSI KRISHNA
37	U14EC055	KAKULETI BALA PHANI KUMAR
38	U14EC056	KALAI ARASI.M
39	U14EC057	KALUMURI VIJAYA KUMAR REDDY
40	U14EC063	KATTA ARUN REDDY
41	U14EC064	KODI.BHARADWAJ REDDY
42	U14EC065	KOKATI GEETADITYA RAMKAPIL
43	U14EC066	MANAM KOKILA.

44	U14EC071	KONDURI SURENDRAREDDY
45	U14EC072	KONDURU PAVAN SAI
46	U14EC073	KOTA VIDYA SAGAR
47	U14EC074	MADDELA MANIKANTA
48	U14EC075	SINGAMALA MALLIKARJUNA REDDY
49	U14EC076	MANCHIKATLA SURYA TEJA
50	U14EC078	MANNEM MAHANTH REDDY
51	U14EC080	MARKA RAJ KUMAR
52	U14EC081	MAYANK HARSHIT
53	U14EC082	MD.FAIYAZ ALAM
54	U14EC083	MEENAAKSHI S
55	U14EC084	MELARGOAD KALATTAR RAKESH
56	U14EC086	MOHAMED KASHIFUDDIN.B
57	U14EC087	MOLABANTI SAI KARTHIK
58	U14EC090	MUTYALA SAI HARISHITHA
59	U14EC091	NADENDLA VANAJA
60	U14EE008	ANNARAM BHASKER GOUD
61	U14EE014	INAPARTHI SWATHI
62	U14EE018	KUNDAN KUMAR
63	U14EE022	MEHBOOB HUSSAIN
64	U14EE024	NAINA MOHAMMED

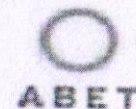
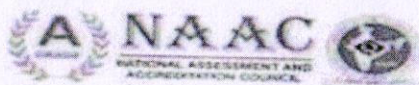

(Dr.M.Sangeetha)

HOD/ECE





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



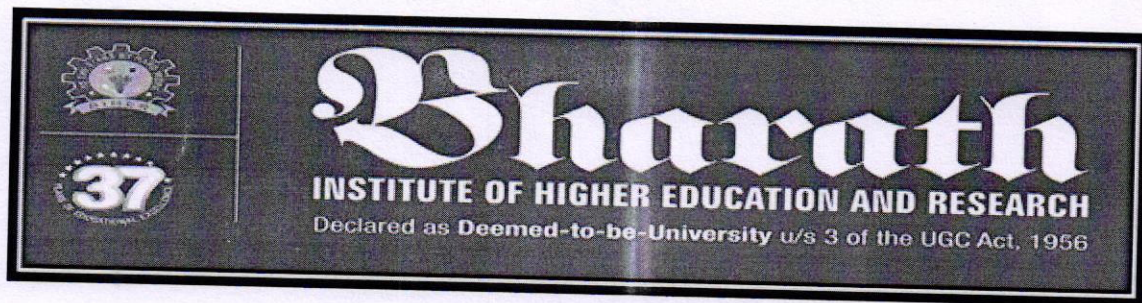
SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms **KUNDAN KUMAR (U13EE018)**
has attended Value added Course On “*Hands On Training on LT
Spice*” organized by the School of Electrical Engineering, BIHER
conducted from 04-07-2018 to 10-07-2018.

M.SOWMIYA MANOJ
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR



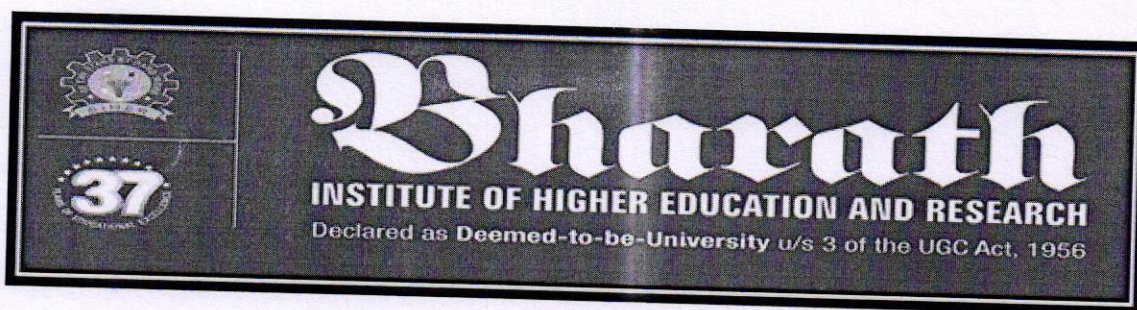
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training LT Spice

FEED BACK FORM		Date:10.07.2018			
Name	Kundan Kumar				
Register number	V14EE018				
	Poor	Fair	Good	Very Good	Excellent
Overall Program			✓		
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs					✓

Kundan Kumar
Student Signature



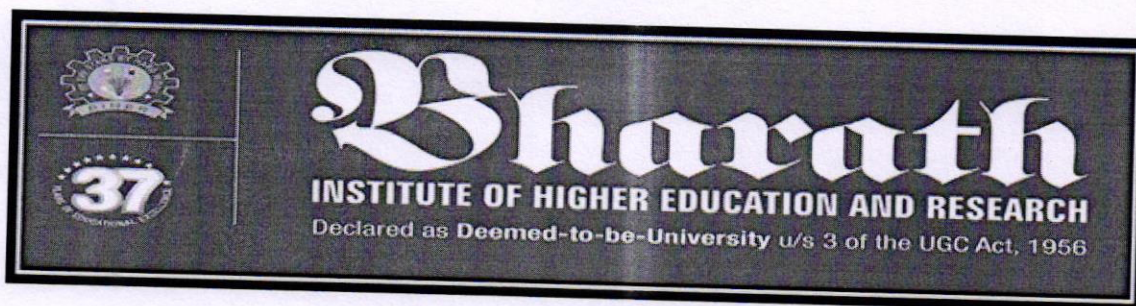
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training LT Spice

FEED BACK FORM						Date:10.07.2018
Name	Meenakshi. S					
Register number	V14 EC 083					
	Poor	Fair	Good	Very Good	Excellent	
Overall Program				✓		
The Speaker					✓	
Audio, Visual Aids Technology used					✓	
Presentation hand outs				✓		

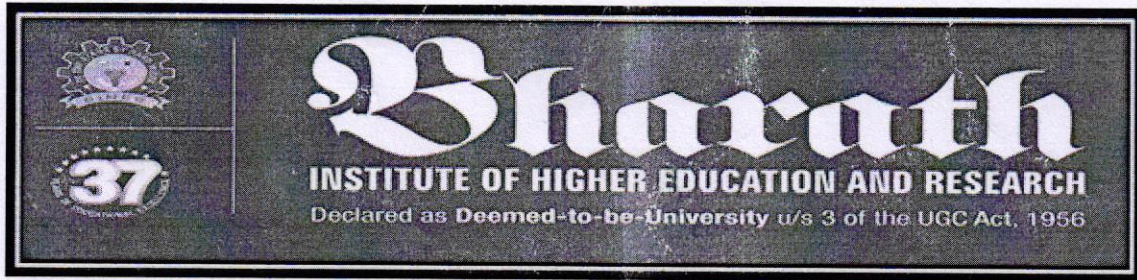
Meenakshi
Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Hands on Training on LT Spice dated on 04.07.2018 conducted by school of Electrical Engineering





Requisition Letter

Date: 04.06.2018

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

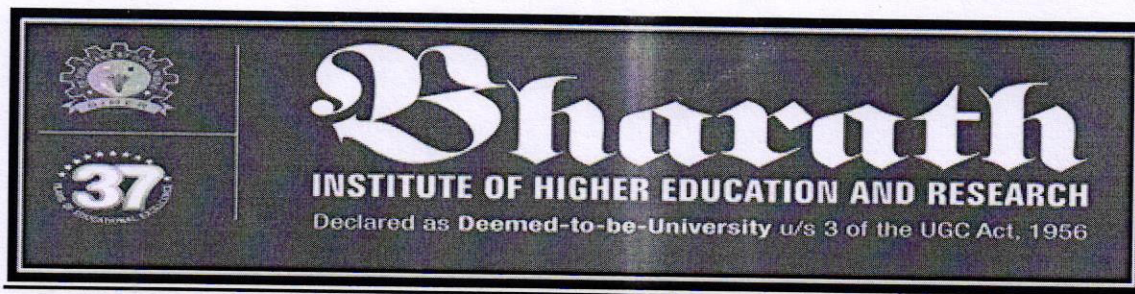
School of Electrical Engineering has planned to conduct Value added Course on "Hands on Training using Cadence for Digital Ic Design" on 04.07.2018. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



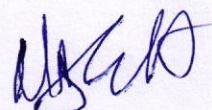
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 15.06.2018

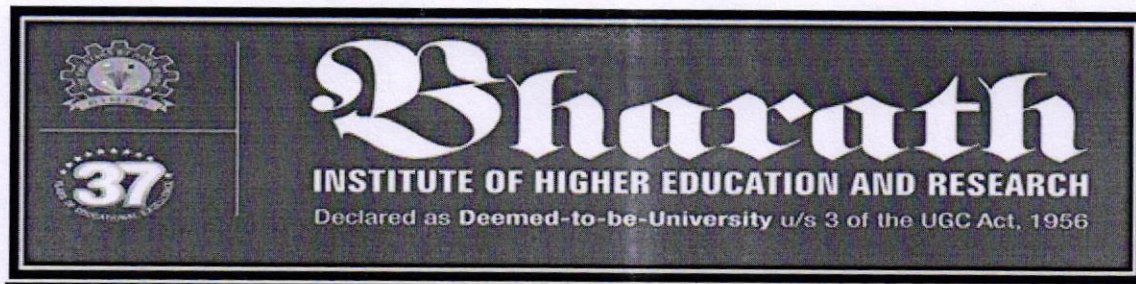
The course on Hands on Training using Cadence for Digital Ic Design is planned by School of Electrical Engineering which commences on 04.07.2018 (Wednesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: M. Sowmiya Manoj
Contact No: 7358747803
Email id : sowmiyamanoj.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 using Cadence for Digital Ic Design

Course Objective

The course on Digital and Mixed Signal IC design has an emphasis to provide a comprehensive design flow on Digital, Analog and Mixed signal IC design. Mixed-signal IC designs are the fastest growing market segments in the electronics and semiconductor industry with applications in diverse field. This course aims to provide practical exercises using the Cadence Encounter Digital Implementation and Analog Virtuoso design environment. The hands-on sessions shall fine-tune the skills of students, interested/working in the field of Analog/Digital/Mixed signal IC design. This course bridges the gap between college curriculum and Industry demand by building the systems from core concepts to advanced level.

Resource Persons :

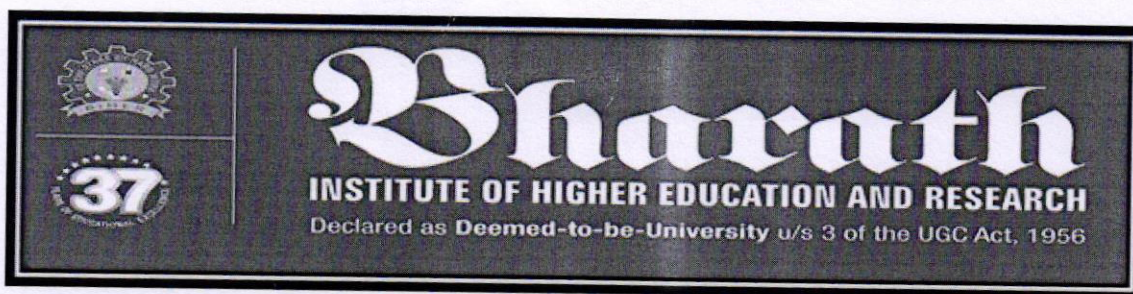
- 1.Ms.B.Hemalatha
- 2.Ms.S.Balaji
- 3.Ms.S.Saravana


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Hands on Training using Cadence for Digital Ic Design

SCHEDULE

Contact Hours : 31 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
04.07.2018	FN	9.00 am to 12.30 pm	Digital design flow	Ms.B.Hemalatha
	AN	1.30 pm to 4 pm	Analog design flow	Ms.S.Balaji
05.07.2018	FN	9.00 am to 12.30 pm	Mixed signal design concepts	Ms.S.Saravana
	AN	1.30 pm to 4 pm	Sample and Hold circuit	Ms.B.Hemalatha
06.07.2018	FN	9.00 am to 12.30 pm	Common source and differential amplifier	Ms.S.Balaji
	AN	1.30 pm to 4 pm	Operational amplifier	Ms.S.Saravana
09.07.2018	FN	9.00 am to 12.30 pm	Design of ADC and DAC	Ms.B.Hemalatha
	AN	1.30 pm to 4 pm	Small signal and large signal analysis	Ms.S.Balaji
10.07.2018	FN	9.00 am to 12.30 pm	Monte Carlo Simulation	Ms.S.Saravana
	AN	1.30 pm to 5 pm	VLSI Layout design (using Cadence Virtuoso Layout Editor)	Ms.B.Hemalatha

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

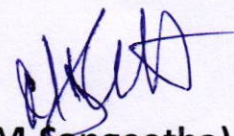
Hands on Training using Cadence for Digital Ic Design

List Of Participants

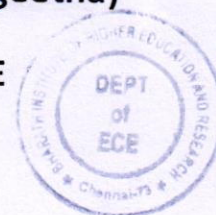
Date:04.07.2018

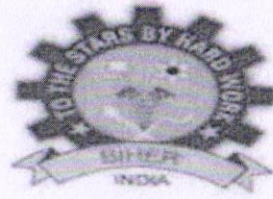
Sl.No	REG.NO	NAME OF THE CANDIDATE
1	U13EC001	ABINAYA P
2	U13EC002	AKHIRUL ISLAM
3	U13EC003	ANAND RAHUL
4	U13EC004	ANGEL M
5	U13EC005	ANJALI KUMARI
6	U13EC006	ARAVIND V
7	U13EC008	ASHIQUE ALAM
8	U13EC009	ASHVATHAMAN K
9	U13EC010	BABLOO KUMAR
10	U13EC015	DEEPAN R
11	U13EC016	DEEPSHIKHA KUMARI
12	U13EC017	DEVENDRA PRIYANKA SUNDER
13	U13EC018	ELVIS RYNTONG
14	U13EC019	G RAHUL REDDY
15	U13EC020	ISWARYA S
16	U13EC021	JAYED AHMED LASKAR
17	U13EC024	MD ANIS

18	U13EC025	MURALITHARAN N
19	U13EC026	NABIL NAIDU S
20	U13EC040	SUKANTO SHARAN
21	U13EC042	UTTAM KUMAR
22	U13EC043	VARSHA KUMARI
23	U13EC048	BHUVANAPRIYA R
24	U13EC051	LAICHIMA BRAHMA
25	U13EC052	ARUN K
26	U13EC054	PURUSHOTTAM KUMAR
27	U13EC501	BALACHANDER S.P
28	U13EC503	M AKSHAY REDDY
29	U13EC507	THAMIZH THENDRAL R
30	U13EC508	MANCHALA RAHUL
31	U13EC509	NAVEEN N
32	U13EC511	VIGNESH M
33	U13EC517	SUBIN JERALD P
34	U13EE051	SYED KABUL ANSARI F
35	U13EE052	TALEEV AALAM
36	U13EE507	MOHAMED ARIFF M
37	U13EE021	NALINEE SINGH


(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)



SCHOOL OF ELECTRICAL ENGINEERING

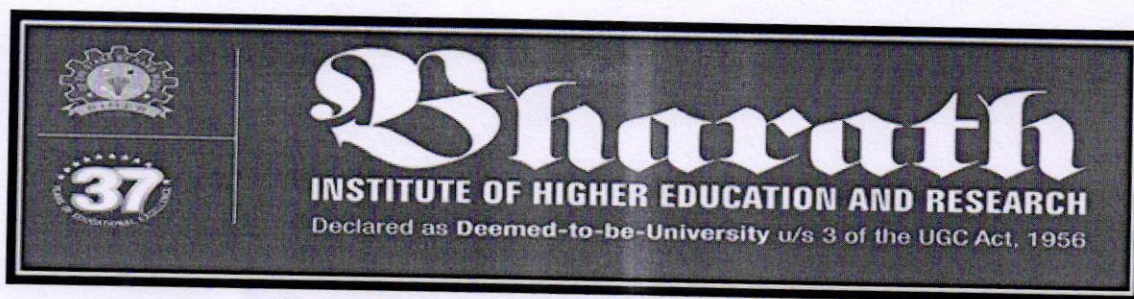
CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms ARUN . K (U13EC052)

has attended Value added Course On “*Hands On Training using Cadence for Digital Ic Design*” organized by the School of Electrical Engineering, BIHER conducted from 04-07-2018 to 10-07-2018.

M.SOWMIYA MANOJ
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR




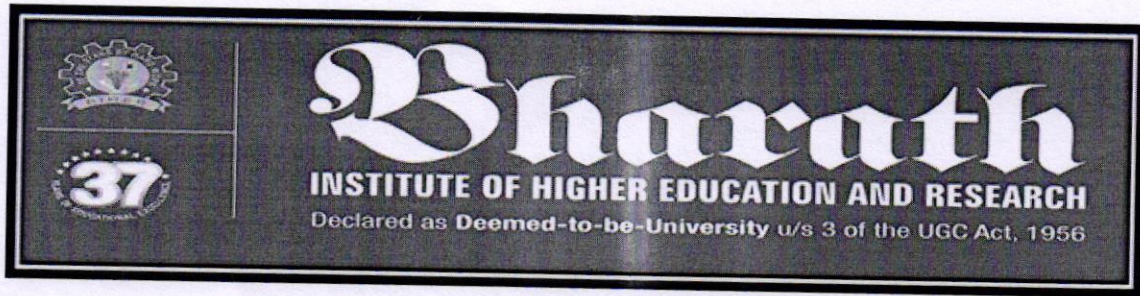
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training using Cadence for Digital Ic Design

FEED BACK FORM		Date:10.07.2018			
Name	Nalinee Singh				
Register number	U13EE021				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs			✓		


Student Signature



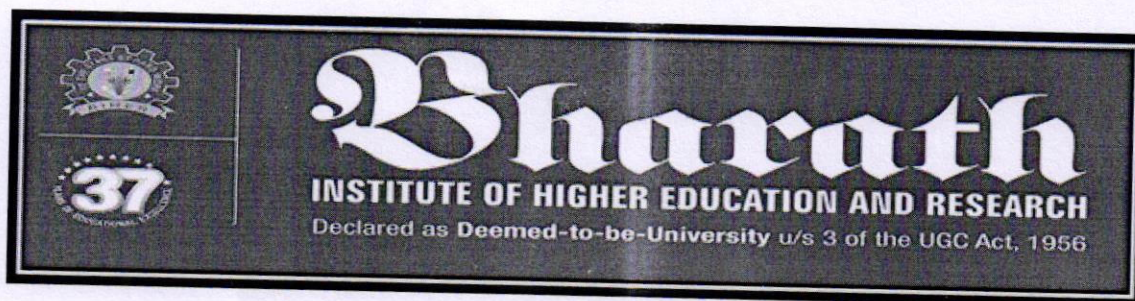
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Hands on Training using Cadence for Digital Ic Design

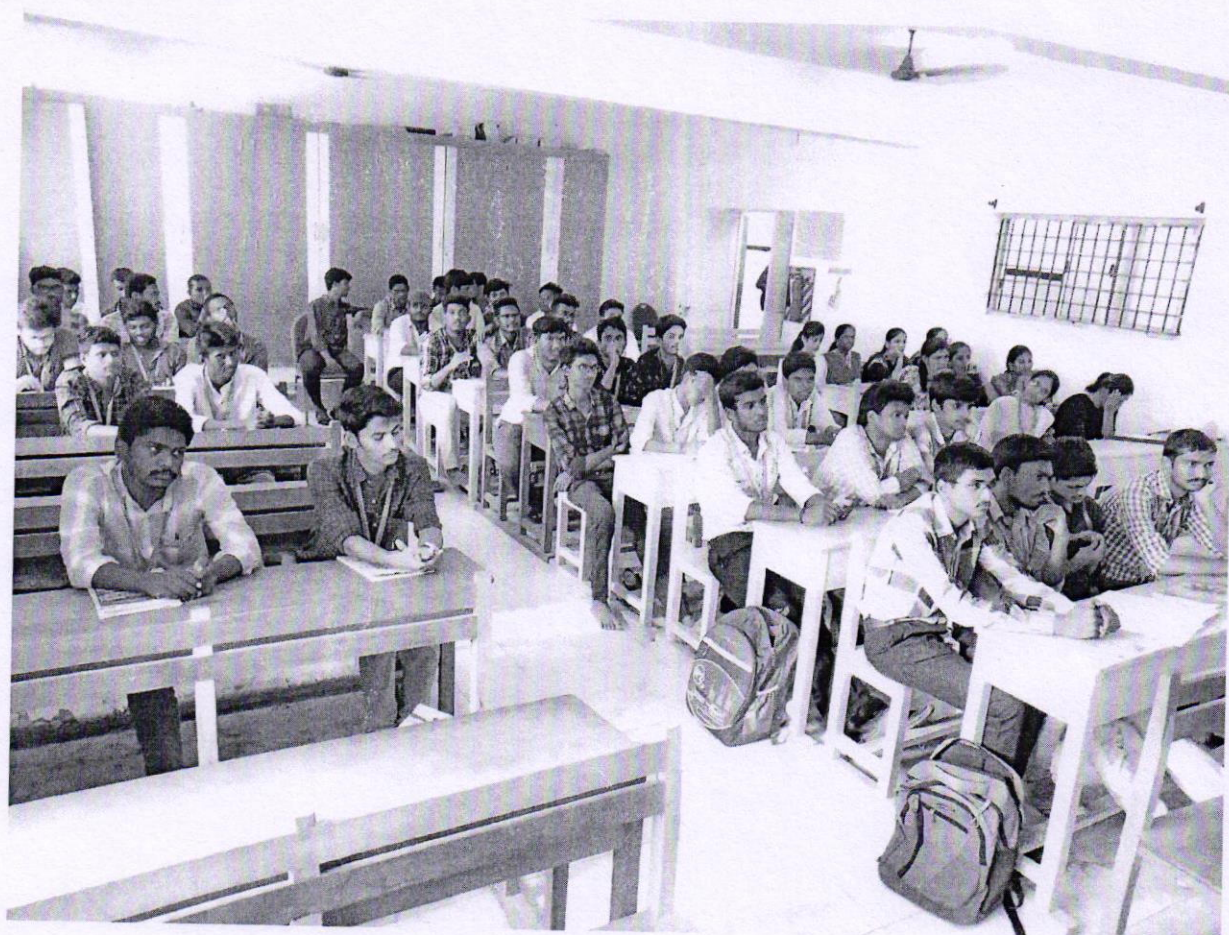
FEED BACK FORM		Date:10.07.2018			
Name	Akshay Reddy . M .				
Register number	V13EC503				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

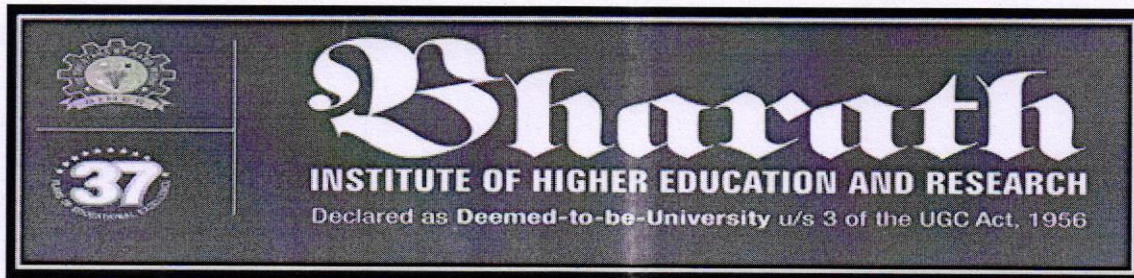
akshayreddy
Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Hands on Training using Cadence for Digital Ic Design dated on 04.07.2018
conducted by school of Electrical Engineering





Requisition Letter

Date: 04.06.2018

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

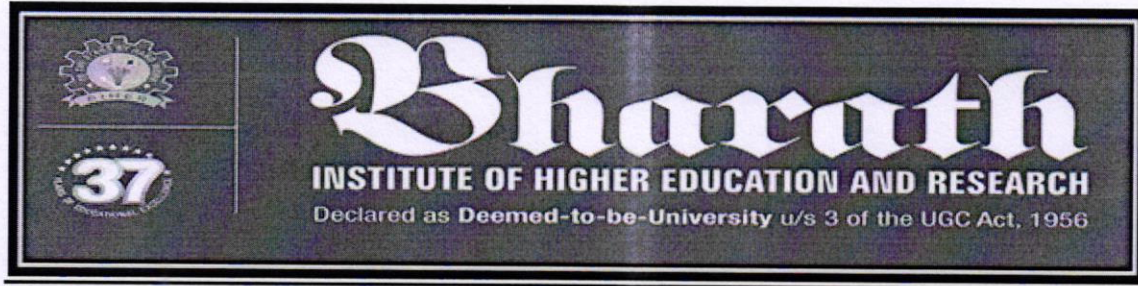
School of Electrical Engineering has planned to conduct Value added Course on " Interfacing Labview with NI-Elvis " on 04.07.2018. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering



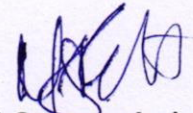
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 15.06.2018

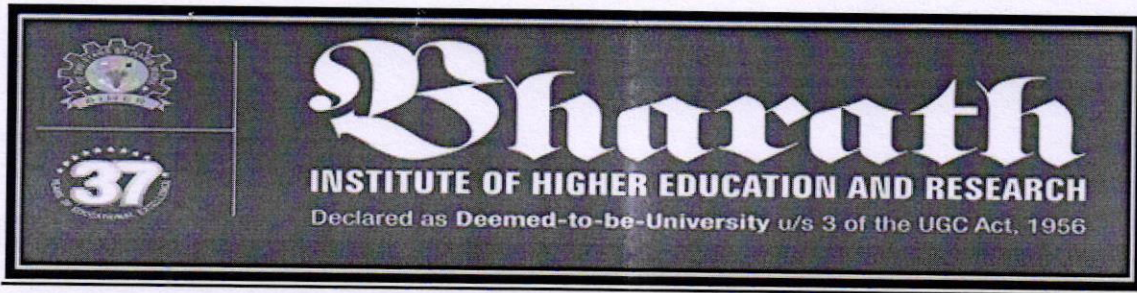
The course on Interfacing Labview with NI-Elvis is planned by School of Electrical Engineering which commences on 04.07.2018 (Wednesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: M. Sowmiya Manoj
Contact No: 7358747803
Email id : sowmiyamanoj.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)

Interfacing Labview with NI-Elvis

Course Objective

This course introduces students to NI ELVIS II by showing how students can use the workstation to measure electronic component properties. Then students can build circuits on the protoboard and later analyze them with the NI ELVIS II suite of SFP instruments. This course also shows how students can use Multisim to design and simulate a circuit before building the circuit on the NI ELVIS II workstation and controlling it with a LabVIEW program

Resource Persons :

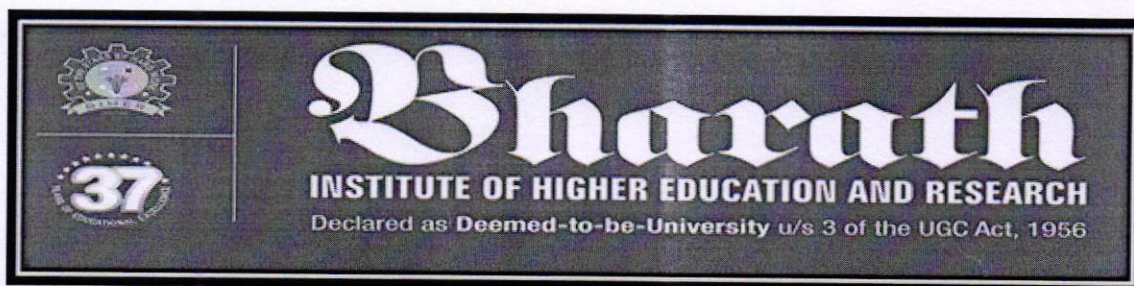
- 1.Dr.S.Arulselvi
- 2.Dr.B.Karthik
- 3.Ms.M.Jasmin


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Interfacing Labview with NI-Elvis

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
04.07.2018	FN	9.00 am to 12.30 pm	NI ELVIS Hardware	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	NI ELVIS Benchtop workstation	Dr.B.Karthik
05.07.2018	FN	9.00 am to 12.30 pm	NI ELVIS prototyping Board	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	NI ELVIS Software	Ms.M.Jasmin
06.07.2018	FN	9.00 am to 12.30 pm	Arbitrary waveform generator(ARB)	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Digital Multimeter	Ms.M.Jasmin
09.07.2018	FN	9.00 am to 12.30 pm	Using Labview with Lab VIEW	Dr.S.Arulselvi
	AN	1.30 pm to 5 pm	Labview Express VIs	Dr.B.Karthik
10.07.2018	FN	9.00 am to 12.30 pm	Low level NI ELVIS API	Ms.M.Jasmin
	AN	1.30 pm to 5 pm	Using NI ELVIS in signal Express	Dr.B.Karthik

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

Interfacing Labview with NI-Elvis

List Of Participants

Date:04.07.2018

Sl.No	REG.NO	NAME OF THE CANDIDATE
1	U14EC002	AARTHI.P
2	U14EC003	ABBISSETTY SAI NIHARIKA
3	U14EC007	ADHARSH.A .I
4	U14EC011	R AMULYA
5	U14EC016	ARCHANA.R
6	U14EC023	CHALUVADI DIVYA BHARATHI
7	U14EC024	CHANDRALEKA.K
8	U14EC032	DESHI VENKATESH
9	U14EC060	KANIKE SAIPRAKASH
10	U14EC061	KANNA SHIVA KRISHNA
11	U14EC069	KONAIAGARI NAGA VAMSI KRISHNA
12	U14EC070	KONDA MOHITH KUMAR REDDY
13	U14EC077	ALURU MANIRATHNAM.
14	U14EC079	MANTU KUMAR SINGH
15	U14EC087	MOLABANTI SAI KARTHIK
16	U14EC089	MUDRAKOLLA SURESH SACHIN
17	U14EC096	MOGAL NASEER.
18	U14EC103	PAPUGANI PARTHASARADHI.
19	U14EC105	PEDDISSETTI VINAY
20	U14EC108	PONNAGANTI MANOJ DEEP
21	U14EC111	GADDAM VENKATA RAVI PRASAD PRATHIMA
22	U14EC113	PUNUGOTI ANUSHA
23	U14EC119	RACHAPALLI SAI MOHAN
24	U14EC123	CHEEDELLA SARACCHANDRA.
25	U14EC130	P SHOPIC
26	U14EC131	SINGAMREDDY MUKUNDESWAR REDDY
27	U14EC137	SRILADAGUDAM VANGATE SHALINI
28	U14EC139	SRIRAMULA PRANAV
29	U14EC144	SYED NAZIM PASHA KHADRI

30	U14EC103	PAPUGANI PARTHASARADHI.
31	U14EC146	TAMIL SELVI .K
32	U14EC151	THOODI SHEKAR REDDY
33	U14EE024	NAINA MOHAMMED
34	U14EE040	K RESHEENDAR
35	U14EE054	YOGESHWARAN .D



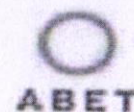
(Dr.M.Sangeetha)

HOD/ECE





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



SCHOOL OF ELECTRICAL ENGINEERING

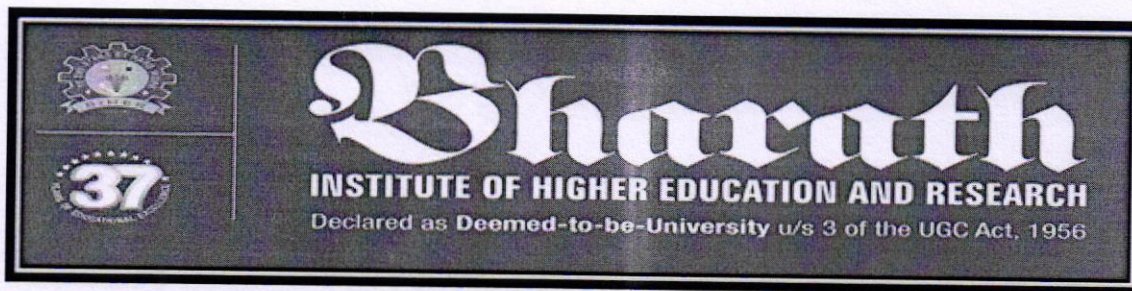
CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms AMULYA . R (U14EC011)

has attended Value added Course On “*Interfacing LabView with NI-Elvis*” organized by the School of Electrical Engineering, BIHER conducted from 04-07-2018 to 10-07-2018.

M.SOWMIYA MANOJ
COURSE COORDINATOR

Dr.M.SANGEETHA
CONVENOR



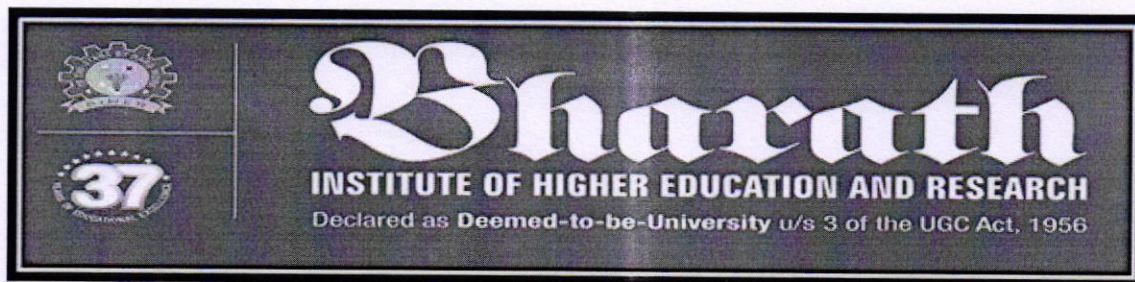
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Interfacing Labview with NI-Elvis

FEED BACK FORM		Date:10.07.2018			
Name	ARCHANA . R				
Register number	U14EC016				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker				✓	
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


 Student Signature



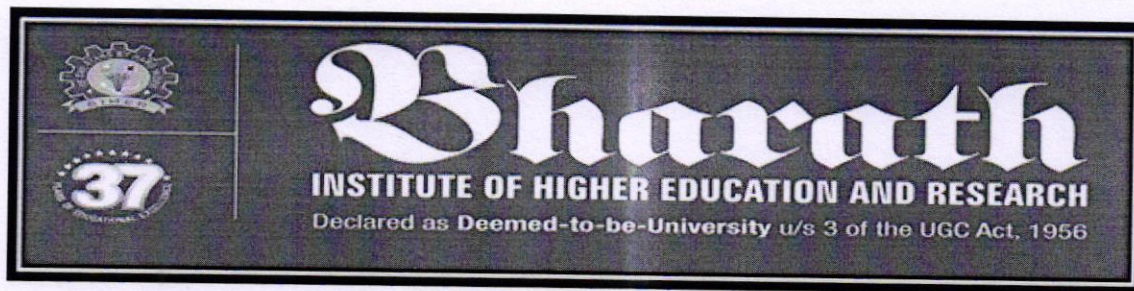
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Interfacing Labview with NI-Elvis

FEED BACK FORM		Date:10.07.2018			
Name	RESHEENDAR				
Register number	VI4EE040				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	

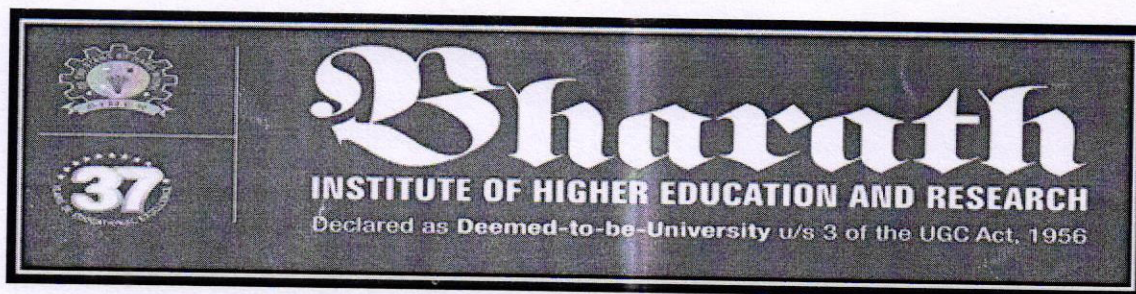
Resheendar
Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Interfacing Labview with NI-Elvis dated on 04.07.2018 conducted by school of Electrical Engineering





Requisition Letter

Date: 14.11.2018

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.

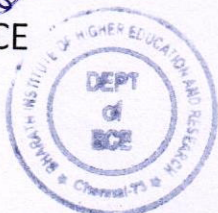
Respected Sir,

SUB: Requisition for conducting Value Added Course-Regd

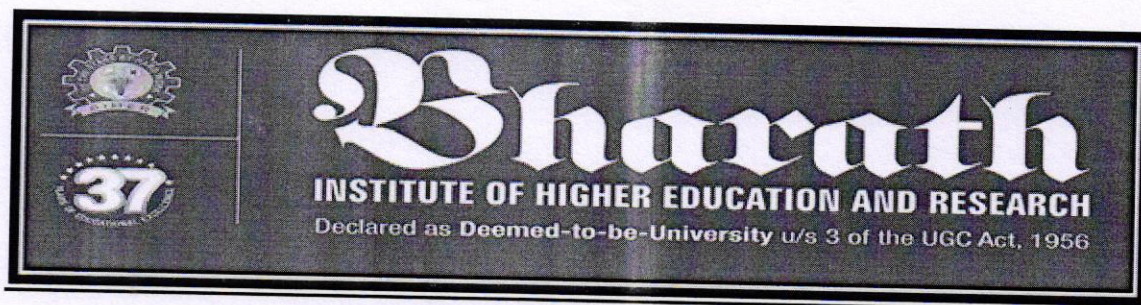
School of Electrical Engineering has planned to conduct Value added Course on **"Introduction to Mobile Application Development"** on 05.12.2018. In this regard we kindly request you to grant permission for the same.

Thanking you

HOD/ECE



Dean Engineering



CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

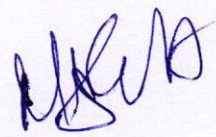
Date: 16.11.2018

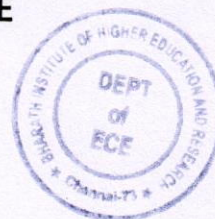
The course on “**Introduction to Mobile Application Development**” is planned by School of Electrical Engineering which commences on 05-12-2018(Wednesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: B.Hemalatha

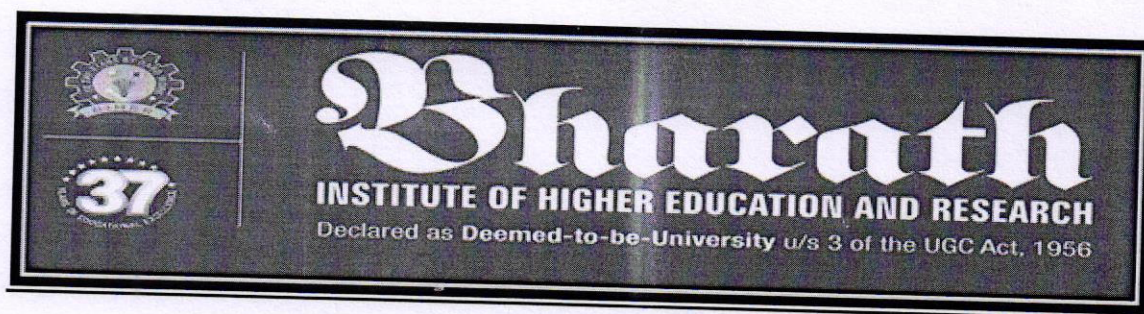
Contact No: 9841403233

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)


Introduction to Mobile Application Development

Course Objective

Mobile application development is concerned with the development of applications on mobile and wireless computing platforms. Android will be used as a basis for teaching programming techniques and design patterns related to the development of standalone applications and mobile portals to enterprise and m-commerce systems. Emphasis is placed on the processes, tools and frameworks required to develop applications for current and emerging mobile computing devices. Students will work at all stages of the software development life-cycle from inception through to implementation and testing. In doing so, students will be required to consider the impact of user characteristics, device capabilities, networking infrastructure and deployment environment, in order to develop software capable of meeting the requirements of stakeholders.

Resource Persons:

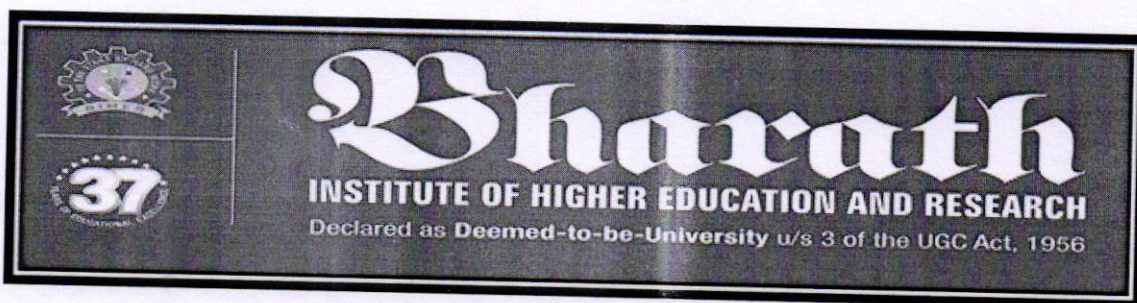
1. Dr.S.Arulselvi
2. Ms. M.Sowmiya Manoj
3. Ms.S.Saravana


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Introduction to Mobile Application Development

SCHEDULE

Contact Hours: 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
5-12-2018	FN	9.00 am to 12.30 pm	Introduction to Android: The Android Platform, Android SDK, Eclipse Installation, Android Installation, Building you First Android application, Understanding Anatomy of Android Application, Android Manifest file.	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Android Application Design Essentials: Anatomy of an Android applications, Android terminologies, Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, Android Manifest File and its common settings, Using Intent Filter, Permissions.	Ms.S.Saravana
6-12-2018	FN	9.00 am to 12.30 pm	Android User Interface Design Essentials: User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation.	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Testing Android applications, Publishing Android application, Using Android preferences, Managing Application resources in a hierarchy, working with different types of resources.	Ms. M.Sowmiya Manoj
7-12-2018	FN	9.00 am to 12.30 pm	Using Common Android APIs: Using Android Data and Storage APIs, Managing data using Sqlite, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, Using Android	Ms.S.Saravana

			Telephony APIs, Deploying Android Application to the World	
	AN	1.30 pm to 4 pm	Programming (Object Oriented Programming Concepts & Java Fundamental)	Ms. M.Sowmiya Manoj
8-12-2018	FN	9.00 am to 12.30 pm	Android : Activities , Content Providers, Intents , Services, Storage, Network, Multimedia , GPS , Phone Services , XML Layouts , widgets, permission , Sensor ManagerAccelerometer, gyroscope etc	Dr.S.Arulselvi
	AN	1.30 pm to 5 pm	Threads, Animation, Refresher handler, Game Engine, Animated 2D Games, Google Play Store and Lot more	Ms.S.Saravana
10-12-2018	FN	9.00 am to 12.30 pm	Basics of Data Base, Introduction to SQ Lite and CRUD operations	Ms. M.Sowmiya Manoj
	AN	1.30 pm to 5 pm	Project: Data base Application Development using SQ Lite, Client Server Application Development Using JSON for mobile Devices	Ms.S.Saravana

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

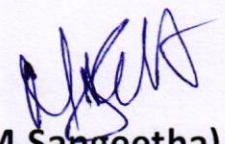
Introduction to Mobile Application Development

List Of Participants

Date: 5.12.2018

Sl.No	REG.NO	NAME OF THE CANDIDATE
1.	U13EC001	ABINAYA P
2.	U13EC004	ANGEL M
3.	U13EC006	ARAVIND V
4.	U13EC010	BABLOO KUMAR
5.	U13EC012	CLIFFORD JOSEPH A
6.	U13EC014	DEEPAK KUMAR
7.	U13EC017	DEVENDRA PRIYANKA SUNDER
8.	U13EC020	ISWARYA S
9.	U13EC024	MD ANIS
10.	U13EC027	NADAR PAVITRA KESHAVAN
11.	U13EC031	PRAVEEN KUMAR V
12.	U13EC033	RAKESH V
13.	U13EC036	SAGNATI VAISHNU VERMA RAJU
14.	U13EC040	SUKANTO SHARAN
15.	U13EC044	VIJAYKIRAN J
16.	U13EC045	VIVEKANAND SINGH
17.	U13EC051	LAICHIMA BRAHMA
18.	U13EC501	BALACHANDER S.P
19.	U13EC503	M AKSHAY REDDY
20.	U13EC507	THAMIZH THENDRAL R
21.	U13EC702	SUGENTHAN .T
22.	U13EC705	JAI SHANKAR M
23.	U13EC710	KARTHIKEYAN .M
24.	U14EC001	AAKAASH THAKUR
25.	U14EC002	AARTHI.P
26.	U14EC004	K ABHILASH REDDY
27.	U14EC006	ADDUGALA RAMA DEVI
28.	U14EC008	ADIREDDY PRAVEEN
29.	U14EC010	AMARJEET KUMAR
30.	U14EC013	ANKIT KAUSHAL
31.	U14EC014	ANNAPANENI VAMSIDHAR

32.	U14EC017	ASARA ANITH RAO
33.	U14EC018	BANKIM CHANDRA BHARTI
34.	U14EC021	BOJJA. VENKATA PRASAD
35.	U14EC024	CHANDRALEKA.K
36.	U14EC025	CHEKURI.VENKATA MAHESH
37.	U14EC028	DEBAJIT HAZARIKA
38.	U14EC030	DEEPAK KUMAR
39.	U14EC031	DEEPAK.A
40.	U14EC036	EJJAGIRI PRAVEEN
41.	U14EC037	VIJAYA LAKSHMI EJJ
42.	U14EC040	GARAGA SIVA SURYA DEEPAK
43.	U14EC041	S GOKUL
44.	U14EC083	MEENAAKSHI S
45.	U14EC092	NAGUNOORI SANKIRTH KUMAR
46.	U14EC093	NALAMARU RAVALI
47.	U14EC109	G PRANAY KUMAR
48.	U14EC110	PRASANNA.S
49.	U14EC125	SATHYA NARAYAN .R
50.	U14EC136	K SRAVANI
51.	U14EC144	SYED NAZIM PASHA KHADRI
52.	U13EE050	SYED JASIM N H
53.	U13EE501	PARTHIBAN.P
54.	U14EE046	SRINIVASAN .C
55.	U14EE057	RAYSHETTI KARTHIK BABU
56.	U14EE701	MAHENDRAN M


(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)



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

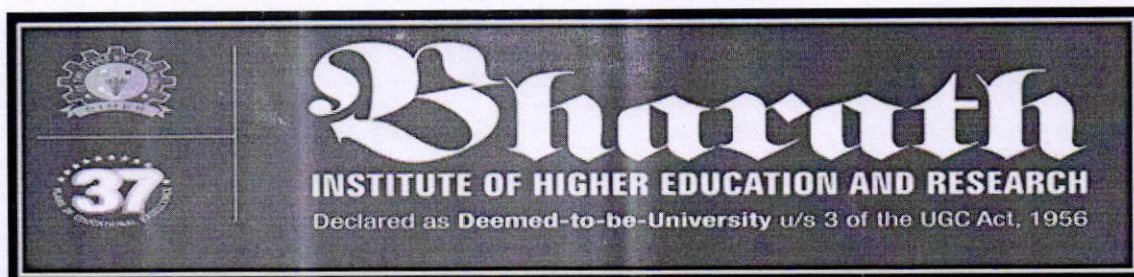
This is to certify that Mr / Ms BALACHANDER S.P (U13EC501)
has attended Value added Course On *“Introduction to Mobile
Application Development”* organized by the School of Electrical
Engineering, **BIHER** conducted from **05-12-2018 to 10-12-2018**.

B. Hemalatha

B.HEMALATHA
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR



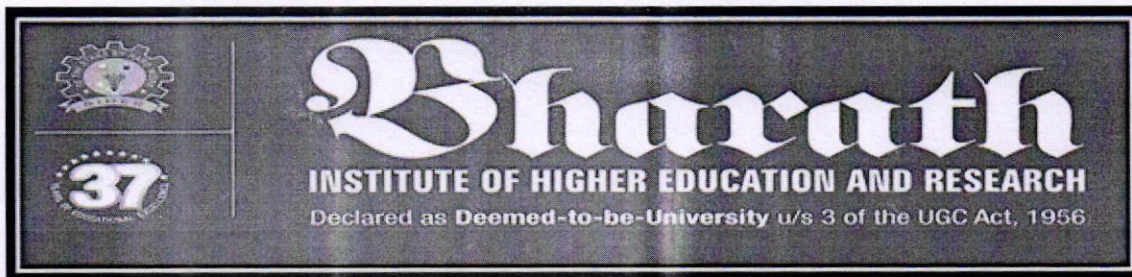
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Introduction to Mobile Application Development

FEED BACK FORM		Date: 10.12.2018			
Name	ANIS M.D				
Register number	U13EC024				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs				✓	

ANIS
Student Signature

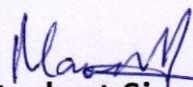


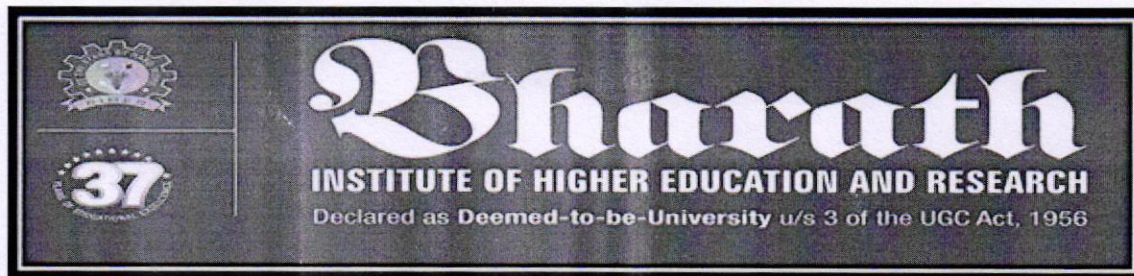
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Introduction to Mobile Application Development

FEED BACK FORM		Date: 10.12.2018			
Name	MAHENDRAN.M				
Register number	VI4EE701				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


 Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on "Introduction to Mobile Application Development" dated on 05.12.2018 conducted by school of Electrical Engineering

