

Value Added Courses (2019 -2020)

Certificate Course on Preparatory Course for Semiconductor Test Engineering

Course Objective

To provide an in-depth training in use of Semiconductors are essential technology enablers that power many of the cutting-edge digital devices we use today. The global semiconductor industry is set to continue its robust growth well into the next decade due to emerging technologies such as autonomous driving, artificial intelligence (AI), 5G and Internet of Things, coupled with consistent spending on R&D and competition among key players.

Resource Persons:

1. Dr.S.Arulselvi

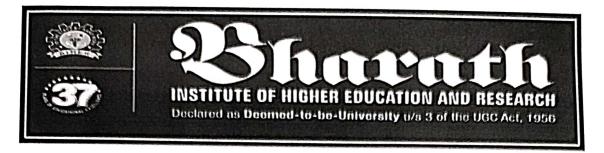
2. Dr.B.Karthik

3. Ms.M.Sowmiya Manoj

Convener

Dr.M.Sangeetha

HOD/ECE



Requisition Letter

Date: 02.01.2020

From

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

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

Respected Sir,

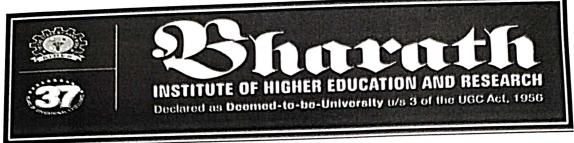
SUB: Requisition for conducting Value Added Course-Regd

School of Electrical Engineering has planned to conduct Value added Course on "Certificate Course on "Preparatory Course for Semiconductor Test Engineering" on 20.01.2020. 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: 08.01.2020

The course on "Certificate Course on Preparatory Course for Semiconductor Test Engineering" is planned by School of Electrical Engineering which commences on 20-01-2020 (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.

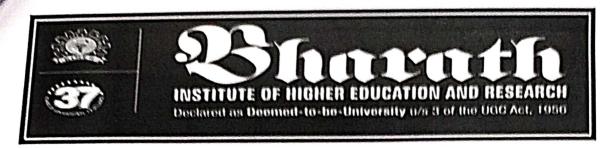
Course Coordinator: Ms.G.Jeyalakshmi

Contact No: 9840976989

Email id: jeyalakshmi.ece@bharathuniv.ac.in

(Dr.M.Sangeetha) HOD/ECE

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



Certificate Course on Preparatory Course for Semiconductor Test Engineering

SCHEDULE

Contact Hours: 32 hrs

DAT	LE	SESS ION	Contact Hour	s TOPICS	Resource person
20-01-20	20	FN 9.00 am to 12.30 Per bar diag		Free electron theory, Density of states and energy band diagrams, Krooni-Penny model (to introduce origin of band gap), Energy bands in solids, E-k diagram, Direct and indirect band gaps.	Dr.S.Arulselvi
	Ā	AN	1.30 pm to 4 pm	Types of electronic materials: metals, semiconductors, and insulators,	Ms.M.Sowmiya Manoj
	F	N	9.00 am to 12.30 pm	Dependence of Fermi level on carrier- concentration and temperature (equilibrium carrier statistics), Carrier generation and recombination,.	Dr.S.Arulselvi
21-01-2020	AN	I 1	1.30 pm to 4 pm	Carrier transport: diffusion and drift, p-n junction, Metal-semiconductor junction (Ohmic and Schottky), Semiconductor materials of interest for optoelectronic devices	Dr.B.Karthik
22-01-2020	FN	9.	00 am to 12.30 pm	Optical transitions in bulk semiconductors: absorption, spontaneous emission, and stimulated emission; Joint density of states, Density of states for photons. Transition rates (Fermi's golden rule), Optical loss and gain; Photovoltaic effect, Exciton, Drude model.	Ms.M.Sowmiya Manoj
	AN			Transition rates (Fermi's golden rule),	Dr.B.Karthik

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				Optical loss and gain; Photovoltaic effect, Exciton, Drude model.	
		FN	9.00 am to 12.30 pm	Four-point probe and van der Pauw measurements for carrier density, resistivity, and hall mobility; Hotpoint probe measurement,	Dr.S.Arulselvi
	23-01-2020			capacitance-voltage measurements	14.140
		AN	1.30 pm to 5 pm	Parameter extraction from diode I-V characteristics, DLTS, band gap by UV-Vis spectroscopy, absorption/transmission.	Manoj
	24.01.2020	FN	9.00 am to 12.30 pm	Density of states in 2D, 1d and 0D (qualitatively). Practical examples of low-dimensional systems such as quantum wells, wires, and dots.	
	24-01-2020	AN	1.30 pm to 5 pm	Design, fabrication, and characterization techniques. Heterojunctions and associated band-diagrams	Ms.M.Sowmiya Manoj

VALUE ADDED COURSE

SCHOOL OF ELECTRICAL ENGINEERING

Certificate Course on Preparatory Course for Semiconductor Test Engineering

List Of Participants

Date: 20-01-2020

S No	Register No	Name of the Student
1	U16EC023	THATIKONDA PREM SAL.
2	U16EC024	DASINENI ANUSHA ANUSHA
3	U16EC025	KOLLUMALLA SHYAM NAGA SRI KIRAN
4	U16EC027	HIMAVANTH J P
5	U16EC028	THIRIVEEDI SUBBAMMA SUBBAMMA
6	U16EC029	PEMMASANI KAVYA KAVYA
7	U16EC030	KAMASANI JYOTHI PRAKASH REDDY .
8	U16EC031	PEDINEEDI NAGARJUNA
9	U16EC032	YANAMALA SREEKANTH REDDY .
10	U16EC033	MOTE KEERTHI KEERTHI
11	U16EC034	ADDALA KRISHNA VAMSI .
12	U16EC035	GOKARAJU AJAY BABU .
13	U16EC036	MANE CHANDRAKANTH CHANDRAKANTH
14	U16EC037	SANNUTHI VINAY NAGA PRANEETH .
15	U16EC038	TELLAMEKALA PRADEEP KUMAR .
16	U16EC039	MATTAPALLI SAI SRIKANTH YADAV .
17	U16EC040	PULI NAGANATH REDDY .
18	U16EC041	KOTTRA ANUSHA GOUD .
19	U16EC042	RADHAKRISHNA K
20	U16EC043	KAPULURI MARUTHI RAO .
21	U16EC044	RAMPRASATH T
22	U16EC045	KAPULURI VENKATESWARLU
23	U16EC047	VEMULA SIVA SANKAR VARAPRASAD .
24	U16EC085	AJITH A K
25	U16EC513	BUSETTY LIKITHESH
26	U16EC701	RAHUL K
27	U16EC702	ESWARCHANDRA PRASAD T
28	U16EC048	GUDLURU SUMANTH
29	U16EC049	KUCHULA SAIKUMAR REDDY
30	U16EC050	KOTA VENKATA SIVA PRASAD REDDY
31	U16EC051	GANGASANI SAI NANDA GOPAL REDDY
32	U16EC052	POKALA SUDHARSHAN REDDY .
33	U16EC053	CHINTALA GANESH
34	U16EC054	TAMATAM HARSHAK REDDY .
35	U16EC055	DURGAPRASAD M

U16EC056	YANDRA SAI VENKAT.
U16EC057	AKASH KUMAR C
U16EC058	BHASHAKARLA GOPIKRISHNA
U16EC059	MADDIBOINA GIRI BABU .
U16EC060	MASANAM TARUN
U16EC061	ANIL KUMAR N E
U16EC062	KALLURI RAMA KSRISHNA .
U16EC063	YALAMANDALA SANDHYA
U16EC064	RACHARLA VENKATNARAYAN
U16EC065	MAHESH.
U16EC066	MARAMREDDY MURALI MOHAN .
U16EC067	JIJJARAPU SHIVA
U16EC068	DINESH D
U16EC069	BURLA MALLIKHARJUNA REDDY .
U16EC070	KATNAM SAIKUMAR .
U16EC071	YANAMALA VASU
U16EC074	VEMIREDDY NARASA REDDY .
U16EC075	MANGISHETTI RAVALI
U16EC076	KOMMINENI DHARANI
U16EC077	KAVALA HARI HARSHAVARDHAN.
U16EC078	VEMULA BHARATH POTHURAJU VENKATA NAGA SUBRAMANYAM .
U16EC079	POTHURAJU VENKATA NAGA SUBIGRAMA TIL
U16EC080	SEELAM VISWANATH
U16EC082	ABHISHEK RANJAN
U16EC084	VISHNU K
U16EC087	MOHAMMED MARUF KHAN A
U16EC088	TAMILARASAN N
	SARASWATHI REDDY SREE PHANI MONISH
U16EC501	Nordipati Ajay Reddy .
	Sudharsan R
	JEEVAN SAI KUMAR REDDY
	HANIKANTH. P KARTHI
	GUMMALLA SAI ANEESH CHOWDARY
	Jean Paul
	ARVINDH R
	POTHURI SUMANTH
	MD MAAZ FARZAN B
	RAJASHREE E R BHUMIREDDY VENKATA RAMANA REDDY
	BHUMIREDDY VENKATA RAMANA REDDY
	SATHVIKA MOHAN
U16EC512	SAIII VIII III III III III III III III II
	U16EC057 U16EC058 U16EC059 U16EC060 U16EC061 U16EC062 U16EC063 U16EC064 U16EC065 U16EC066 U16EC067 U16EC068 U16EC069 U16EC070 U16EC071 U16EC071 U16EC074 U16EC075 U16EC076 U16EC076 U16EC077 U16EC079 U16EC079 U16EC079 U16EC080 U16EC082 U16EC084

(Dr.M.Sangeetha)

HOD/ECE

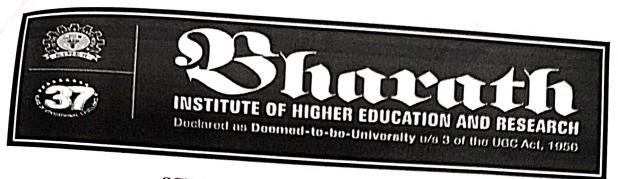


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Certificate Course on Preparatory Course for Semiconductor Test Engineering

FEED BACK FOI	RM			Da	ate: 29.1.2020
Name	Himav	ONTHJ.P			
Register number	VI6Eco	27			
	Poor	Fair	Good	Very Good	Excellent
Overall Program				~	
TheSpeaker					
Audio,Visual Aids Technology used					
Presentation hand outs				√	

Student Signature

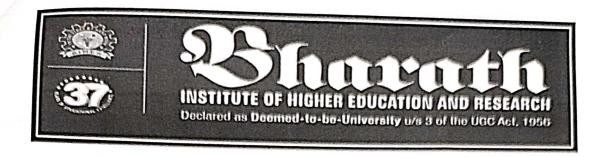


VALUE ADDED COURSE

Certificate Course on Preparatory Course for Semiconductor Test Engineering

FEED BACK FORM				Date 24 . · 20		
Name	AJith.	A·K				
Register number	V16Re	085				
	Poor	Fair	Good	Very Good	Excellent	
Overall Program				-/		
TheSpeaker						
Audio,Visual Aids				~~		
Technology used						
resentation hand			~	1		

Student Signature



Course on Certificate Course on Preparatory Course for Semiconductor Test Engineering "dated on 20-01-2020 conducted by school of Electrical Engineering



