

(A Unit of Shri Sode Vadiraja Mutt Education Trust[®], Udupi) Vishwothama Nagar, Bantakal - 574 115, Udupi District, Karnataka, India

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Dr. H V Balachandra Achar Professor & Head

04 Feb 2019

CIRCULAR

The department of E&C Engineering has arranged a Hands-on Workshop titled "Joy of PCB Design" for the benefit of 1st and 2nd year ECE students to create your own PCBs for projects.

Dates: 16 & 17 February 2019

Venue: ECE department SMVITM

Resource Person: Research Scholar from NITK

Interested students are required to pay the fees amount Rs. 400 per head at the college cash counter and register by producing the fees receipt in the ECE department office. Last date for registration is 09 Feb 2019.

For any more information, contact the coordinator Dr. Asha CS.

Regards

HOD, ECE

Principal

SHRI MADHWA YADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT Vishwothama Nagar, Udupi Dist

BANTAKAL - 574 115



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Dr. H V Balachandra Achar Professor & Head

04 Feb 2019

Mr. Basti Bharath Shenoy Research Scholar NITK Surathkal

Dear Sir

Subject: Request to be a resource person for the hands-on workshop on Joy of PCB Design

Printed circuit board (PCB) is one of the key concepts in electronics, which every electronics student is expected to know. To improve the skills of our students, we have arranged a hands-on workshop on PCB Design for our 1st and 2nd year ECE students, in association with ISTE Student Chapter. We request you to become the resource person for the above workshop and train our students for two days on 16th and 17th of Feb 2019 in the college campus.

Thanking you in advance

Yours sincerely

Balachandra Achar

Head Dept of E&C Engg. SMVITM, BANTAKAL - 574-115 I accept the invitation

Tel: 0820-2589183 Ext. 221. Emall: ec@sode-edu.in

Principal
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ACTIVITY REPORT

2018-19	
Workshop titled 'Joy of PCB Design'	
Mr. Basti Bharath Shenoy	
Research Scholar, NITK, Surathkal	
16 & 17 Feb 2019	
9:00 am – 4:45 pm	
Computer Lab ECE Block, and Chemistry Lab, Admin Block	
Students of 1st and 2nd year ECE	
43	

Department of E & C Engineering in association with Department of Chemistry and ISTE Student Chapter conducted a 2-day workshop titled 'Joy of PCB Design' on 16 & 17 Feb 2019. Forty three students from 1st and 2nd year B.E. E&C participated in the hands-on workshop. Research scholar from NITK Surathkal Mr. Basti Bharath Shenoy was the resource person.

Inaugurating the workshop, Principal Dr. Thirumaleshwara Bhat congratulated the students and said that every student should update their knowledge and skill by participating in such workshops and seminars in every semester. Earlier, HOD Dr. Balachandra Achar welcomed the resource person and advised the students to enjoy the workshop rather than doing it for the sake of doing.

Research scholar Ms. Shilpa Kamath, workshop coordinator Dr. Asha C S, faculty & staff members of E&C Engineering department, and participating students were present on the occasion. Ms. Namana of 4th semester compered the inaugural session and proposed the vote of thanks.

From this 2-day workshop, students gained knowledge about analog circuit design, PCB layout design and PCB printing.

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Workshop Name: Joy of PCB Design (Hands On) - Feb 16-17, 2019

Day 1 Agenda:

Time	Details	Requirements/Arrangements
9.30 - 11.00	Problem statement discussion + Circuit	Projector and simultaneous access
	Part 1 Schematic Implementation (C1SI)	to white board + Laptop/Desktop
		(with downloaded PCB design
		software) access to students
11.15 – 1.00	C1SI wind Up + PCB Layout	Laptop/Desktop (with downloaded
	Implementation (PLI)	PCB design software) access to
		students
2.00 - 3.30	PLI wind up + Transfer layout to board	Laptop/Desktop (with downloaded
		PCB design software) access to
		students + Laser Printer access to
		students + Cloth iron access to
		students
3.45 - 5.00	Wind up – PCB implementation ready	Cloth iron access to students +
		Water + Ferric Chloride + Boxes to
		prepare solution + Old Newspaper /
		Waste clothes

Day 2 Agenda:

Time	Details	Requirements/Arrangements		
9.00 - 11.00	Component placement, drilling holes -	E & C Hardware Laboratory access		
	Circuit Part 1 Ready and working	to students, drilling equipment		
		access + Components		
11.15 - 1.00	Circuit Part 2 – C2SI (Workshop Task	Laptop/Desktop (with downloaded		
	Start)	PCB design software) access to		
		students		
2.00 - 3.30	C2SI wind up and PLI Laptop/Desktop (with downloade			
		PCB design software) access to		
		students		
3.45 - 4.45	PLI wind up + Transfer layout to board	Laptop/Desktop (with downloaded		
	(Workshop Task to be continued after	PCB design software) access to		
	workshop and may take about 5 hours of	students + Laser Printer access to		
	effort after completion of the workshop.	students + Cloth iron access to		
	Certificates to be issued only on	students + Water + Ferric Chloride +		
	completion of this task)	Boxes to prepare solution + Old		
		Newspaper / Waste clothes		
4.45 - 5.00	Concluding Remarks + Feedback Session	Feedback forms		

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General Components & Equipment's/Facilities for Day 1 and Day 2:

Flux and Lead - Sufficient amount

Drilling machine – As many as available (with enough no. of drill bits as they may break while drilling)

Ferric Chloride, Water, Boxes to prepare the solution & Laser Printer availability

Cloth iron – 1 No. per batch

Steel wool (to clean PCB) - enough quantity

Old Newspapers / Waste cloth - few

Soldering Iron (With stand) – 1 No. per batch

Multimeter - 1 No. per batch

Black Permanent Marker (Thin tip) - 1 No. per batch

Blade – 1 No. per batch

Wire Stripper and Scissor – (2 – 3) Nos. each

Components for Day 1:

Copper Clad PCB for Circuit 1 (1 feet by 1 feet) – 2 No.s

150 GSM Mirror Coated Sheet - 10 No.s

Components (Per Batch):

Single Phase AC Power Chord – 1 No.

Transformer (9-0-9), 250 mA – 1 No.

1N4007 diode - 2 No.s

1000 uF Capacitor – 1 No.

7805 IC - 1 No.

0.1 uF - 1 No.

LED (Red - Small) - 1 No.

Resistor (330 ohm) - 1 No.

2 Pin Connector - 1 No.

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Components for Day 2:

Copper Clad PCB for Circuit 1 (1 feet by 1 feet) - 2 No.s

150 GSM Mirror Coated Sheet - 10 No.s

Components (Per Batch):

470 uF Capacitor - 1 No.

Resistor (4.7 kilo ohm) - 1 No.

0.01 uF - 1 No.

LED (Green - Small) - 1 No.

Resistor (330 ohm) -1 No.

2 Pin Connector - 1 No.

Reset Switch (2 leg - small) - 1 No.

Resistor (1 kilo ohm) – 1 No.

555 timer IC - 1 No.

IC base for 555 timer - 1 No.

Link to PCB Design Software:

https://www.autodesk.com/products/eagle/free-download

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Dr. HV Balachandra Achar Professor & Head Department of E & C Engineering

17 Feb 2019

Mr. Basti Bharath Shenov Research Scholar NITK, Surathkal

Dear Sir

Subject: Letter of gratitude

We express our heartfelt gratitude and thanks to you for being a resource person and conducting the 2-day hands-on workshop "Joy of PCB Design" for our second year Electronics & Communication Engineering students on 16 & 17 February 2019 in the college premises.

We look forward to your continued support in the future too.

Thanks & Regards

Balachandra Achar

Hend

Dept of E&C Engg. SAMITM, BANTAKAL - 574-115

SHRI MADHWA YADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT Vishwothama Nagar, Udupi Dist BANTAKAL - 574 115



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Website: www.sode-edu.in

Dr. H V Balachandra Achar Professor & Head Department of E & C Engineering

17 Feb 2019

Ms. Shilpa Kamath Research Scholar NITK, Surathkal

Dear Madam

Subject: Letter of gratitude

We express our heartfelt gratitude and thanks to you for being a resource person and conducting the 2-day hands-on workshop "Joy of PCB Design" for our second year Electronics & Communication Engineering students on 16 & 17 February 2019 in the college premises.

We look forward to your continued support in the future too.

Thanks & Regards

Balachandra Achar

Head

Dept of E&C Engg.

SMVITM, BANTAKAL - 574-115

4300

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Attendance

Name of event:

"Joy of PCB design" Workshop

Date & Time:

16-17 Feb 2019, 9:00 am to 4:45 pm

Venue:

Computer lab ECE block and Chemistry lab

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Tel: 0820-2589183 Ext. 221. Email: ec@sode-edu.in

Principal

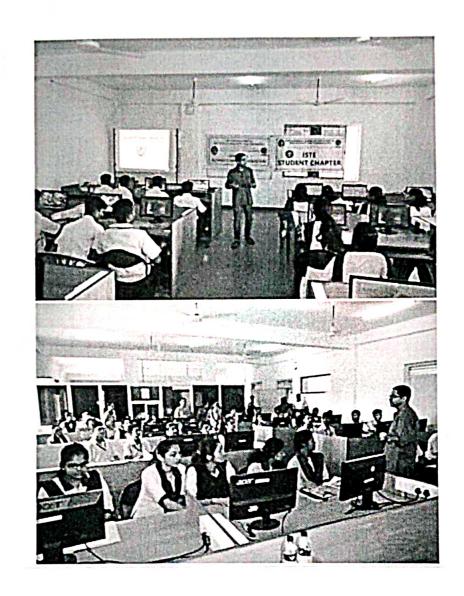
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Asha Cs. Dr. Asha C S Coordinator

Dr. HVB Achar HOD, ECE

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Longitude	13.254846822883607
Latitude	74.78566960246253
Location	Analog Lab, Department of ECE, SMVITM, Bantakal

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