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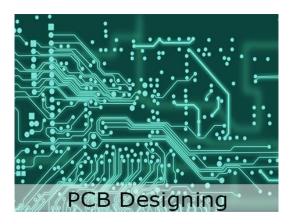
Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

Certificate Course

on

#### **PCB DESIGN**

From 19th FEB 2018 TO 24TH FEB 2018



#### **ORGANIZED BY**

DEPT. OF ELECTRICAL &ELECTRONICS ENGINEERING AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TAMARAM (V), MAKAVARAPALEM (M), VISAKHAPATNAM-531113

#### **AVANTHI EDUCATIONAL SOCIETY**

Avanthi Educational Society under the Leadership of Sri M.Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board. Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

#### **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for

Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

DEPARTMENT OF ELECTRICAL ANDELECTRONICS ENGINEERING

The Department of Electrical & Electronics Engineering was established in the year 2001 along with the MECHANICAL, ECE and CSE departments. The department has an intake of 60 students. Commencing the academic year 2011, a post-graduate course in Power Electronics and 2014 in Power Systems was started. The department has full fledged laboratories, workshops and P.G. labs. The department is staffed with qualified, experienced and dedicated members who engage in research activities.. The department with active support from the management is aiming to expand its research activities and industrial consultancies.

#### **ABOUT COURSE**

The workshop was aimed to provide knowledge about Complete PCB Designing using simulation tool to test electronics & Designing electrical circuit in software environment and also its Fabrication, PCB design software named Cad soft EAGLE

**CHIEF PATRON** 

Smt M Gnaneswari President, Avanthi Educational Society PATRON

Dr. C P V N J Mohan Rao Principal, Avanthi Institute Of Engineering And Technology

& make physical PCB at home so that any student can make project on his own.

#### **TOPICS TO BE COVERED**

Day 1: Introduction to Basic Electronics

Day 2: Introduction to PCD Wizard software

**Day 3:** Introduction to EasyEDA software

**Day 4:** Introduction to EAGLE software

Day 5: PCB Design & Routing ,Etching of PCB

**Day 6:** Soldering of components on the PCB & Project testing

For any further information Contact Mr K NARAYANA RAO, Assistant Professor, EEE, and Smt S SUJATHA DEVI Assistant Professor, EEE

**CHAIRMAN** 

Dr. T Srinivasa Rao Head of the Department Electrical & Electronics Engineering COORDINATORS

Mr K Narayana Rao Asst. Professor

Smt S Sujatha Devi Asst. Professor



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#### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

#### **CIRCULAR**

Date: 15/02/2018

A short term course on "*PCB DESIGN*" for all the II Year I Semester students of Electrical and Electronics Engineering Department is scheduled 19<sup>th</sup> Feb 2018 to 24<sup>th</sup> Feb 2018. All the students should attend the course without fail. For any further information Contact course coordinators Mr. K Narayana Rao Assistant Professor and Smt S Sujatha Devi Assistant Professor, EEE Department.

#### Resource Person Details:

- Sri K. Apparao Swamy, Multi Skill Trainer, APSSDC.
- Kum G. Sireesha, Multi Skill Trainer, APSSDC.

Dr. T Srimvasa Rao

Head of the Department, EEE
Head of the Department
Department of Electrical & Electronics Engg.
Avanthi Institute of Engg & Tech.
Maksverapalem, Visakhapatnam - 531113.

Copy to: Principal, AIET



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#### **PCB DESIGN**

Duration: 19-02-2018 to 24-02-2018

#### **SYLLABUS**

Day 1: Introduction to Basic Electronics

Day 2: Introduction to PCD Wizard software

Day 3: Introduction to Easyl DA software

Day 4: Introduction to EAG E software

Day 5: PCB Design & Routing, Etching of PCB

Day 6: Soldering of components on the PCB & Project testing

COORDINATOR

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Head of the Department
Department of Electrical & Electronics Enga
Avanthi Institute of Engg & Tectal
Makavarapalem, Visakhapatnam - 531118.



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#### **PCB DESIGN**

Duration: 19-02-2018 to 24-02-2018

#### **SCHEDULE**

DAY/DATE	Session - 1 09.00 AM to 12Noon	Session - 2 1.00 PM to 4.00 PM  Introduction to LEDs, Transistor, Breadboard, Printed Circuit Board (PCB), Practical Use of Electronics Components like Resistor, Capacitor & Diode			
Monday 19/02/2018	Introducticn to Basic Electronics Components, Resistor (Ohms Law, Voltage & Current), Capacitor, Diode, Integrated Circuit.				
Tuesday 20/02/2018	Brief Introduc ion to PCB Wizard software	Designing of cir uits on PCB Wizard sc ftware			
Wednesday 21/02/2018	Brief Intra duction to EasyEDA software	Designing of circuits on EasyEDA software			
Thursday 22/02/2018	Brief Introduction to EAGLE software	Designing of circuits on EAGLE software			
Friday 23/02/2018	Testing and trouble shootings of designed PCBs	Printing Circuit on PCB, PCB Etching. Drilling Holes on PCB for Components			
Saturday 24/02/2018	Soldering of omponents on the PCB	Project testing.			

COORDINATOR

Head of the Department
Department of Electrical & Electronics Engg.
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PCB DESIGN
From 19<sup>th</sup> FEB 2018 to 24<sup>TH</sup> FEB 2018
2<sup>nd</sup> Year Students Attendance

	S.NO ROLL STUDENT NAME 19 20 21 22 23 24									
0.110	ROLL NUMBER	STUDENT NAME	19 Feb	20 Feb	21 Feb	22 Feb	23 Feb	24 Feb		
1	16811A0202	CHEKURI HEMANTH KUMAR	V	V	V	/	/	/		
2	16811A0203	CHODAY BHANU TEJASWINI	/	~	/		/			
3	16811A0205	KARANAM SREENU	/	V		/	/	/		
4	16811A0206	MOLUGU BHARADHWAJ	/	/	<b>V</b>	/	/	~		
5	16811A0208	PASALAPUDI MOHANA PRIYA	/	X	/	<b>V</b>	/	/		
6	16811A0209	PEDAPATI HARIKRISHNA	V	V	/	/	/	/		
7	16811A0210	PETLA VISHNU VARDHAN	/	~	/	/	<b>V</b>	/		
8	16811A0211	PYLA RAMESH	/	V	/	V		/		
9	16811A0214	YAKA SALMANRAJU	/	/	/	<b>/</b>	/	~		
10	17815A0201	BAINA SATYA GIREESH	/	/	V	/	/	/		
11	17815A0202	CHITIKELA MANASA	/	/	<b>✓</b>	/	V	/		
12	17815A0204	EARLA V S G RAMARAO	/	/	✓	/	<b>V</b>	V		
13	17815A0205	GANDREDDY LAZAR	/	<b>V</b>	V	/	/			
14	17815A0206	GOPISETTI LAKSHMI VINOJ KUMAR	X	~	/	<b>V</b>	/	/		
15	17815A0207	KAARUKONDA TARUN KUMAR	V	/	. ✓		/	/		
16	17815A0208	KALLA SRAVANI	/	/	/	/	/	/		
17	17815A0210	KUNDRAPU REVATHI	/	V	V	/	/	×		
18	17815A0211	LAGUDU PRASAD	V	~			./	/		
19	17815A0213	MADDU CHANDRA SEKHAR	/	/	<u> </u>	/	~	/		
20	17815A0214	MAKIREDDI AYYAPPASWAMY	/	/	/	/		/		
21	17815A0215	MAMIDI SIVAJI	/	/	/	V	/	/		
22	17815A0217	NEELI PAVAN KALYAN	/	/	/	/	/	/		
23	17815A0218	PASUPULETI BHASKARA SIVA GANESH	/	X	<b>/</b>	/	V	V		
24	17815A0219	PATCHARA NAGESWARARAO	V	/	/	/	/	~		
25	17815A0220	PINAMAREDDI OOHA	/	/	<b>/</b>	/	V	/		
26	17815A0221	POLUPARTHI GANGA BABU	/		/	<b>V</b>	/	~		
27	17815A0222	RAVADA SREENU	/	/		/	/	/		
28	17815A0223	REDDI MANISHA	<b>/</b>	/	V	/	/	/		
29	17815A0224	S MAHALAKSHMI NAIDU		/	/	~	V	V		
30	17815A0225	SUNKARA JYOTHSNA		/	<b>/</b>	/	X	/		
31	17815A0226	THANGELLA RAMU	/	~		V.	/	<u> </u>		
32	17815A0227	VEGI SRINU	<b>✓</b>	/	~	/	V	V		
33	17815A0228	EARLA MAHESH			~	/		/		

Head of the Department Department of Electrical & Electronics Engg. Avanthi Institute of Engg & Tech. Makavarapalem, Visakhapatnam - 531113.



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#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

A Course on

# PCB DESIGN From 19th February 2018 to 24th February 2018





vanthi Institute of Engg & Tech. Makavarapalem, Visakhapatnam - 531113.



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# Certificate of Participation

This is to certify that Mr./Ms.	of
has participated in the Certificate Course ent	itled
on <b>PCB DESIGN</b> during from $19^{\text{TH}}$ FEB 2018 to $24^{\text{TH}}$ FEB 2018 was organis	ed by
the Department of ELECTRICAL AND ELECTRONICS ENGINEERING at Avant	chi
Institute of Engineering and Technology.	

HOD

Coordinator

**Principal** 

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#### AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

## Department of Electrical and Electronics Engineering

Dt: 28-02-2018

### **BRIEF REPORT**

Department of Electrical and Electronics Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on "PCB DESIGN" during from 19-02-2018 to 24-02-2018

The speaker Sri K. Appa Rao Swamy (Multi Skill Trainer APSSDC) explained Schematic Design of Circuit on software Cadsoft EAGLE, benefits of using Cadsoft EAGLE, and pointers to make precise schematic design. Key information about PCB designing by PCB layout Design of Circuit on software Cadsoft EAGLE, and pointers to make precise PCB layout design Schematic design & PCB layout design on Cad soft EAGLE. He started one of the session with introduction of PCB Designing, Benefits of the workshop and its applications. The speaker explained Schematic Design of Circuit on software Cadsoft EAGLE, benefits of using EasyEDA software, and PCB design and routing etching of PCB. The participants also tried practice on various demo circuits provided. Students also shows interest on Printing the Inner layers, Removing the Unwanted Copper, Layer Alignment and Optical Inspection, Lay-up and Bond. Speaker explained about PCB Soldering procedure & do's and don'ts of making PCB. He also explained various circuits which can be used often by students and motivated students to keep designing such circuits.

Coordinator

Head of the Department

Head of the Department
Department of Electrical & Electronics Engg.
Avanthi Institute of Engg & Tech.
Matavarapalem, Visakhapatnam - 531113.