



**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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NH-16, Anakapalle-531002, Visakhapatnam, Andhra Pradesh



## **A TWO WEEK WORKSHOP**

**ON**

**PCB DESIGN**

**(10<sup>th</sup> March, 2022 to 23<sup>rd</sup> March, 2022)**

**Organized by**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**In association with**

**Andhra Pradesh State Skill Development Corporation (APSSDC)**

- Resource Persons** : 1. Mr.I.Ravi Kumar, Technical Skill Trainee-APSSDC.  
2. Mr.Y.Madhu Vamsi, Technical Skill Trainee -APSSDC.
- Convenor** : Dr.P.Poorna Priya, Assoc Prof,CSE, DIET, Anakapalle.
- Faculty Coordinators:** 1. Mrs.Archana B T, Assistant Professor, E.C.E Department.  
2. Mrs.P.Amrutha, Assistant Professor, E.C.E Department.
- Venue** : Laboratory 1 and AC/DC Lab , DIET .



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## **Report on Workshop**

The Department of Electronics and Communication Engineering of DIET, in association with Andhra Pradesh State Skill Development Corporation (APSSDC) has organized a Two Week workshop on " PCB DESIGN " for II B.Tech ECE Students during 10-03-2022 to 23-03-2022. The main aim of workshop is to develop the practical knowledge of students in advanced PCB software's and to design the multiple circuits . The workshop was aimed to provide knowledge about Complete PCB Designing using simulation tool to test electronics & electrical circuit in software environment.

### **About PCB:**

A **Printed Circuit Board (PCB)** mechanically supports and electrically connects electronic or electrical components using conductive tracks , pads and other features etched from one or more sheet layers of copper laminated onto and / or between sheet layers of a non-conductive substrate . Components are generally soldered onto the PCB to both electrically connect and mechanically fasten them to it and point-to-point construction . PCBs require additional design effort to layout the circuit, but manufacturing and assembly can be automated. Printed circuit boards are used in all the electronic products. They are also used in electrical products, such as passive switch boxes .

### **Objectives of Workshop:**

- Design a PCB as per design input.
- Understand the steps and processes involved in PCB manufacturing.
- Develop the schematics of circuit using industry grade software.



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### **Inauguration:**

The inauguration of the workshop was conducted in the Seminar Hall 2, DIET Campus on 10-03-2012 at 9.30 AM with a prayer song . The dignitaries of the Inaugural Function includes , **Dr.Challa Narsimham, Principal ,Dr.L.Prasanna Kumar, Skill Coordinator Dr.P.Poorna Priya**, HoD-ECE & Workshop Convenor and resource persons **Mr.I.Ravi Kumar**, Electronics Engineer-APSSDC, **Mr.Y.Madhu Vamsi**, Electronics Engineer-APSSDC. The HoD's of other departments, E.C.E Department faculty members and 93 students from II B.Tech ECE Department have participated in the inaugural function . The Welcome speech was given by students Ms.P.Syama of II B.Tech ECE.



II ECE students attending inauguration



Dignitaries on Dais



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**Dr.P.Poorna Priya, H.O.D, E.C.E , addressing the gathering.**

Dr.P.Poorna Priya, H.O.D, E.C.E Department, have given the opening remarks about the workshop . She has addressed all the student participants to make use of this workshop and improve their practical knowledge.



**Dr.Challa Narsimham , Principal - DIET, addressing the gathering.**



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Principal Dr. Challa Narsimham , addressed the students about workshop and importance of APSSDC. He said that, it is an opportunity for all the II B.Tech ECE students to learn different PCB Softwares . Apart from theoretical knowledge, practical knowledge is also very important for Engineering students. So, he has suggested all the students to make use of this 2 week workshop effectively.



Dr. L.Prasanna Kumar, Institute level Skill Coordinator briefed the students about workshop and its importance for their career development.





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**Presented vote of thanks by Ms.P.Syama, for Inaugural function.**



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## Day Wise Program Details

**Day-1:** Workshop on “PCB DESIGN” - DIET – 10<sup>th</sup> March 2022/17<sup>th</sup> March 2022

**Resource Persons:** Mr.B.Suresh Kumar Electronics Engineer-APSSDC and Mr.Ch.Santhosh, Electronics Engineer-APSSDC

**Topics covered:** Introduction to PCB and Software

Mr.I.Ravi Kumar, in the Forenoon Session started with introduction of PCB Designing, layouts, benefits of the workshop and its applications. He has explained about Schematic Design of a demo Circuit and pointers to make precise schematic design from 11.00 AM to 12.30 PM.

Mr.Y.Madhu Vamsi has explained about the types of software's and their usage 1) Live wire and 2) PCB wizard. All the 93 participants designed basic circuits by using Live Wire software from 01.00 PM-04.00 PM.



**Introduction to PCB Design**

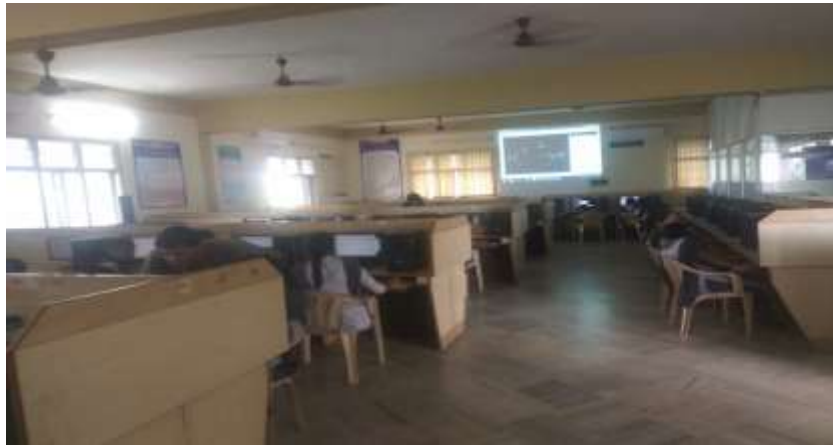


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**Explained how to use live software for designing circuits**

**Day-2:** Workshop on “PCB DESIGN” - DIET – 11<sup>th</sup> March 2022/18<sup>th</sup> March 2022

**Resource Persons:** Mr.I.Ravi Kumar, Technical skill Trainee -APSSDC

**Topics covered:** Rectifiers, 555 timer and LED circuits

Mr. .I.Ravi Kumar, explained how to design different types of rectifiers, 555timer and LED circuits by using Live wire software.



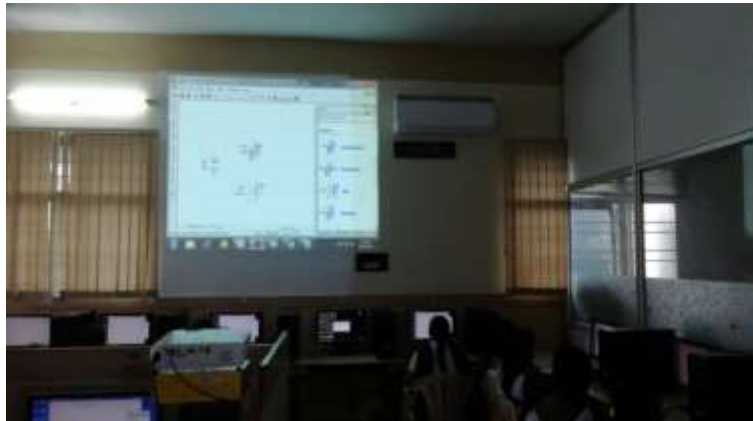


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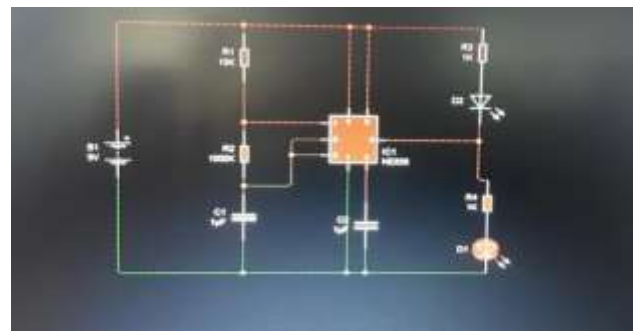
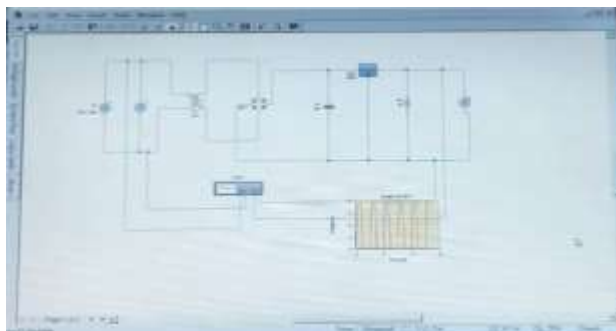
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**Placing the components on the schematic window**



**Designed few circuits by using live wire software**



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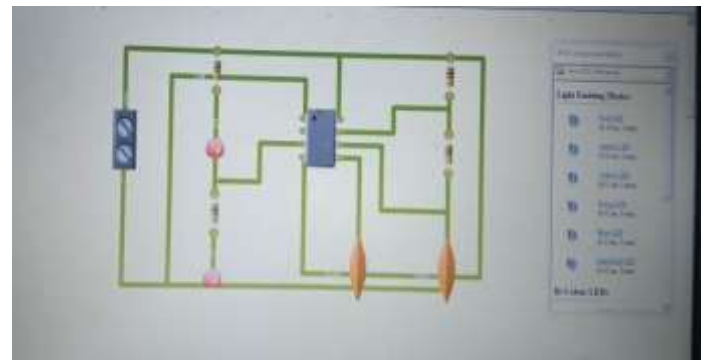
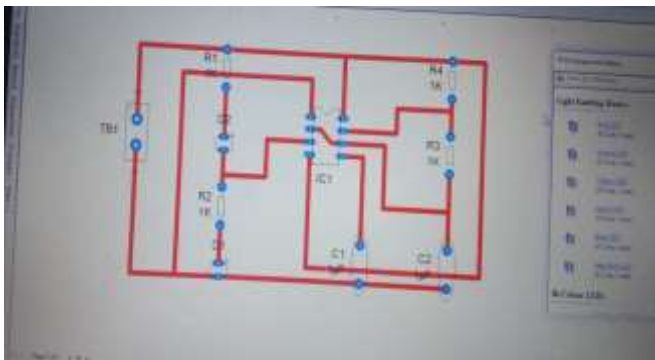


**Day-3:** Workshop on “PCB DESIGN” - DIET – 12<sup>th</sup> March 2022/19<sup>th</sup> March 2022

**Resource Persons:** Mr. Y.Madhu Vamsi , Technical Skill Trainee-APSSDC

**Topics covered:** Design of electronic die, Motor and Seven segment display circuits etc.

Mr. Y.Madhu Vamsi explained how to design electronic die, motor and seven segment display by using Live Wire software from 09.00 AM to 04.00 PM . All the participants designed so many circuits and tested by simulating the circuits by changing the voltage values.



**Simulation of circuits**

**Day-4:** Workshop on “PCB DESIGN” - DIET – 13<sup>th</sup> March 2022/20<sup>th</sup> March 2022

**Resource Persons:** Mr. Y.Madhu Vamsi , Technical Skill Trainee -APSSDC



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**Topics covered:** Layout design by using PCB wizard software.

Mr. Y.Madhu Vamsi explained how to create symbolic representation of circuits (schematic diagram), searching , loading and placing of components , Wiring connections between components, Updating component information in PCB layout (Auto packaging), Entering Page Notes and Saving the circuit from 09:00 AM to 12:30 PM.

He has explained about the layout design with auto routing and manual routing directly from 01.30 PM to 04.00 PM. All the participants designed layouts by using PCB Wizard software for the circuits which were designed by using Live wire software by hands on experience in the laboratory.



**Explaining how to draw layout for circuits by manual and automatic routing using PCB Wizard software**



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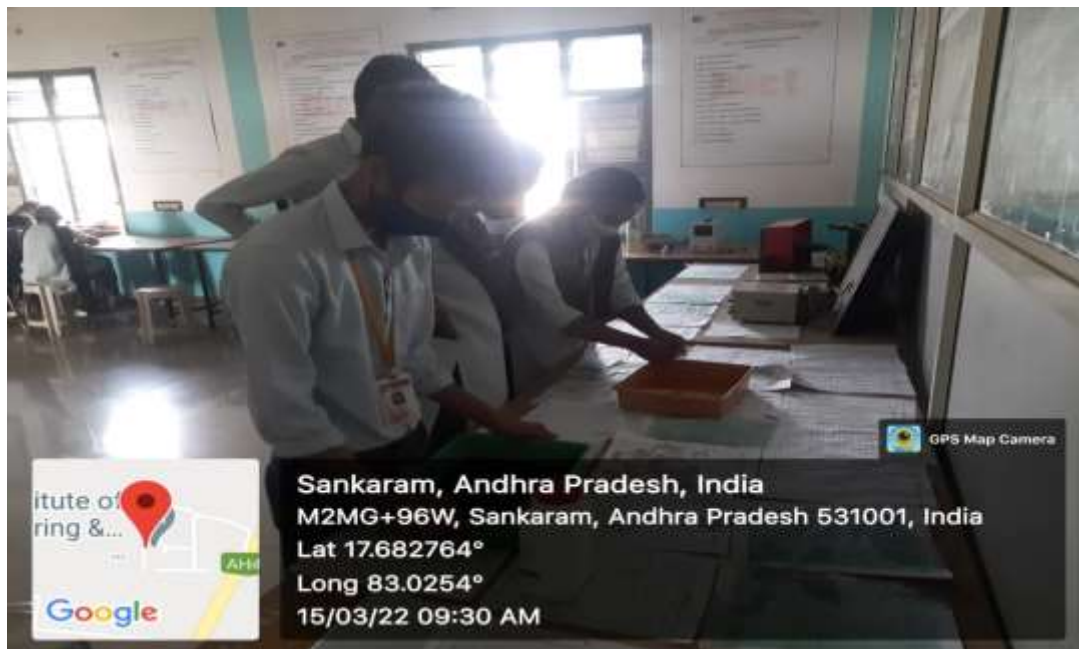


**Day-5:** Workshop on “PCB DESIGN” - DIET – 14<sup>th</sup> March 2022/21<sup>st</sup> March 2022

**Resource Persons:** Mr.I.Ravi Kumar Kumar, Technical Skill Trainee-APSSDC

**Topics covered:** layout design by using PCB wizard software.

Mr. .I.Ravi Kumar continued the layout design for remaining circuits with auto routing and manual routing directly from 09.00 AM to 4.00 PM. All the 93 participants designed layouts for all the circuits which were designed by using Live wire software in lab 1 & lab 2.



**Students having hands on experience**

**Day-6:** Workshop on “PCB DESIGN” - DIET – 15<sup>th</sup> March 2022,22<sup>nd</sup> March 2022



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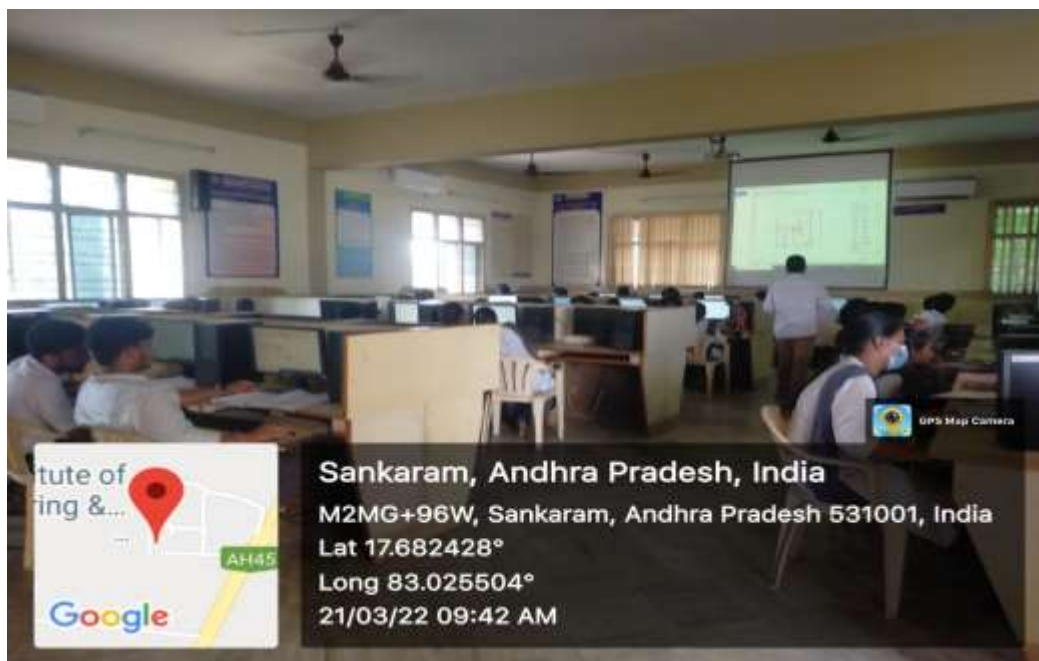


**Resource Persons:** Mr.I.Ravi Kumar Technical Skill Trainee -APSSDC and Mr.Y.Madhu Vamsi, Technical Skill Trainee -APSSDC

**Topics covered:** Online Simulation by using Easy EDA software.

Mr.I.Ravi Kumar, has given a detailed introduction for online simulation by using Easy EDA software and how to simulate and test the circuits in lab 1 & lab 2 from 11.00 AM to 12.30 PM.

Mr.Y.Madhu Vamsi, has explained about the design of 16 segment display by using Easy EDA software from 01.30 PM to 04.00 PM.



**Explaining the usage of Easy EDA Software**



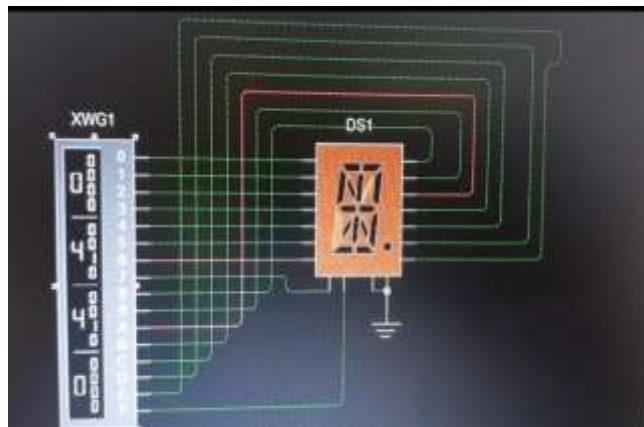


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**Designed 16 segment display by using Easy EDA Software**

### **Outcome of workshop:**

All the 93 participants effectively utilized the workshop and learned about PCB related softwares for designing different electronic circuits.

Now all the participants are able to :

- Design circuits by using Live Wire Software.
- Design circuits by using PCB Wizard Software.
- Design circuits by using Easy EDA Software.



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### **Feedback from students :**

After attending this workshop students have expressed their views as follows :

- In 2<sup>nd</sup> year itself we all got an opportunity to participate in workshop which is conducted on PCB design in association with Andhra Pradesh State Skill Development Corporation (APSSDC).
- We all have learned the basics of PCB , different types of PCB software to design circuits.
- It's very interesting for all the 6 days.
- It is a very good experience for us in experiencing the hands on experience .

I would like to thank our honourable Chairman, Sri Dadi Ratnakar garu , for his continuous cooperation and support for conducting this workshop .

I would like to thank our beloved principal, Dr.Challa Narsimham for his encouragement in all aspects for conducting industry based workshops .

I would like to thank Vice-Principal - DIET , A.O , All the Departmental HOD's , Faculty coordinators , Student coordinators , ECE department teaching and non-teaching faculty members , Admin staff who knowingly and unknowingly helped in all aspects for making this workshop a grand success.



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### List of participants

S.No.	HT.No	StudentName
1	20U41A0401	ADARI YASHWANTHINI
2	20U41A0402	BODDAPATI MEGHANA
3	20U41A0403	MODE DEEPTHI
4	20U41A0405	MATHALA VIJAYA
5	20U41A0406	CHATTI DIVYA
6	20U41A0407	ALLU ROOPA DEVI
7	20U41A0408	KANDREGULA SANJANA
8	20U41A0409	KARANAM AKHIL
9	20U41A0410	VIYYAPU LOKESH
10	20U41A0411	BANDARU AKHILA
11	20U41A0412	VARRE ROHITH
12	20U41A0413	YERUKULA SRIRAM SAI KUMAR
13	20U41A0414	KASIREDDY SHYAM SAMPATH KUMAR
14	20U41A0415	PADALA PREETHI
15	20U41A0416	APPANA PREM VASANTH KUMAR
16	20U41A0417	ALAJANGI BARGAVI
17	20U41A0418	TAMARANA RAMA GANESH
18	20U41A0419	KONATHALA DIVYASREE
19	20U41A0420	KONCHADA REVANTH
20	20U41A0421	ADARI KUSUMA
21	20U41A0422	SARAGADAM PARNITHA
22	20U41A0423	GANTA SUNIL KUMAR
23	20U41A0424	DANNINA NAVYA
24	20U41A0425	BOTTA BHANU LOKESH
25	20U41A0426	MADETI NAVEENA
26	20U41A0427	ADARI PRUDHVI
27	20U41A0428	NEMALAPURI PRAVEEN KUMAR
28	20U41A0429	AMPOLU SAI TEJA



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29	20U41A0430	MAMIDI MOUNIKA
30	20U41A0431	RANGU RAJASHEKAR
31	20U41A0432	BALAJI VEYYIDHALAMULA
32	20U41A0433	ATHOTA DINESH RAJ
33	20U41A0434	KARANAM AJITH KUMAR
34	20U41A0436	PITHANI MURARI
35	20U41A0437	VIYYAPU MOUNIKA SAI
36	20U41A0438	PATNALA DEEPAK
37	20U41A0439	TULAGAPU VINAY
38	20U41A0440	PALLA ROHIT
39	20U41A0441	BESETTI NANI AVINASH RATNA
40	20U41A0442	GALLA VAHINI KRISHNA
41	20U41A0443	MOYYA SAIMANIKANTA
42	20U41A0444	DATTI SHANMUKHA NAIDU
43	20U41A0445	BODDEDA KUSUMA
44	20U41A0446	KARUKONDA SHIVA NAGA SAI ABHISHEK
45	20U41A0447	KONATHALA MANOJ BABU
46	20U41A0448	SIDDANATHI LEELADHAR
47	20U41A0449	PYLA SIVA DURGA MANI TEJA
48	20U41A0450	NANDANA SAI KUMAR GOUD
49	20U41A0451	TENTU PRATYUSHA
50	20U41A0452	LAKKOJU VEERENDRA SAI
51	20U41A0453	TATTIKOTA RAMYA
52	20U41A0454	TALARI SANDHYA SRI
53	20U41A0455	P. V. SATYANARAYANA REDDY
54	20U41A0456	BONDA MOHAN KIRAN
55	20U41A0457	MD HASSAIN AKRAM
56	20U41A0458	PUTREVU JAI DEEP
57	20U41A0459	BANDARU JYOTSNA
58	20U41A0460	KANTREDDY LIKHITH



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59	20U41A0461	PATINA SHANKAR YASHWANTH
60	20U41A0462	KOTYADA SAI ESWAR
61	20U41A0463	MEDIBOYINA VAMSI
62	20U41A0464	KOTAPADU SRINU
63	20U41A0465	GANISETTI POORNA CHANDRA
64	20U41A0466	VEGI MANI KISHOR
65	20U41A0467	JANAPATI SESA SAI MONIKA
66	20U41A0468	KOIDALA NIKIL
67	20U41A0469	RAVI JAYANTHI
68	20U41A0470	BUDDHA JYOTSNA
69	20U41A0471	CHANDAKA KIRAN KUMAR
70	20U41A0472	MARADUPUDI PRANUSHA
71	20U41A0473	PEMMADA SYAMA
72	20U41A0474	BODDEDA SYAMJAY MADHAV
73	21U45A0401	BANDARU JAYANTH
74	21U45A0402	DADI DALYA RAM
75	21U45A0404	G. HEMANTH SATEESH KUMAR
76	21U45A0405	BHEESETTI JHANSI
77	21U45A0406	YELUSURI JANARDHAN
78	21U45A0407	GORLI SYAMALA
79	21U45A0408	GORLI POORNIMA
80	21U45A0409	BAMMIDI AKHILA
81	21U45A0410	DASARI GAYATRI
82	21U45A0411	MEDAPATI AMBICA JAYASRI
83	21U45A0412	POTHABATTULA KARTIK
84	21U45A0413	KANDREGULA VAMSI
85	21U45A0414	T. VAMSI SAI RAMA KRISHNA
86	21U45A0415	VUDI NAGENDRA
87	21U45A0416	A. SOMA SAI SATISH
88	21U45A0417	KOSURU SUMITHRA
89	21U45A0418	VANKAYALA SIVA KRISHNA





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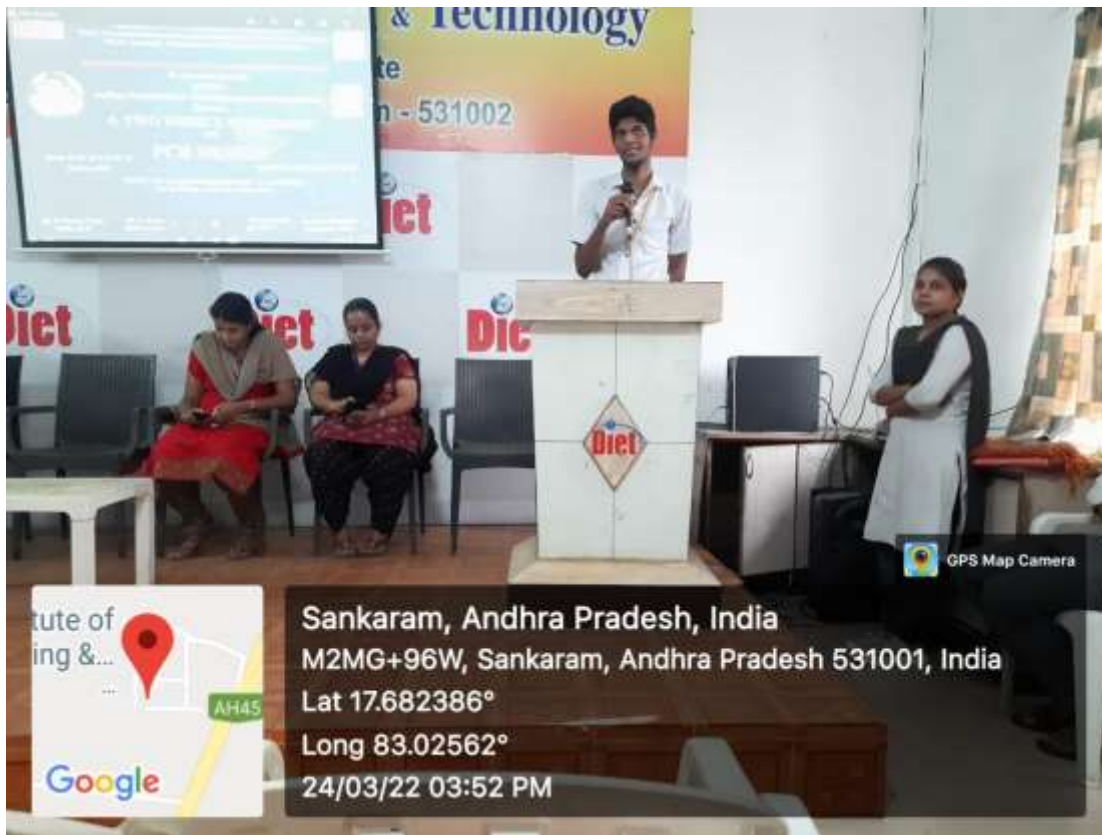


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90	21U45A0419	EERE MANOHAR
91	21U45A0420	NAVARA SHALINI
92	21U45A0421	PALLELA KALYAN
93	21U45A0422	YEDIRI HARISH KUMAR





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**Student giving feedback on Workshop at Valedictory on 24<sup>th</sup> March,2022**



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**Group photo with Convener, Principal, Resource persons, Faculty and Participants.**





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**అనకాపల్లి, జిల్లా వాణి ప్రతినీధి**

పట్టణంలోని దాడి ఇన్స్టిట్యూట్ ఆఫ్ ఇంజనీరింగ్ అండ్ టెక్నాలజీ కళాశాలలో ఈసినా విభాగం విద్యార్థులకు వారి సాంకేతిక నైపుణ్యం



పెంపొందించుకునేందుకు నిర్వహించిన పిసిబి డిజైన్ వర్క్ షాప్ శనివారంతో ముగిసింది. పదిహేను రోజుల పాటు ఎక్కడ ఈ వర్క్ షాప్ నిర్వహించారు. ఈ వర్క్ షాప్ సాంకేతిక నిపుణులు ఐ.రవికుమార్, మధు, వంశీ విద్యార్థులకు శిక్షణ ఇచ్చారు. ఈ సందర్భంగా దాడి ఇన్స్టిట్యూట్ ఇంజనీరింగ్ కళాశాల చైర్మన్ దాడి రత్నాకర్ మాట్లాడుతూ ఇన్స్టిట్యూట్ ఇటువంటి శిక్షణలు మరెన్నో నిర్వహిస్తున్నామని అన్నారు. కళాశాల ప్రిన్సిపాల్ డాక్టర్ సిహెచ్ నరసింహం మాట్లాడుతూ ఇటువంటి శిక్షణ వలన విద్యార్థులు ఎన్నో ప్రయోజనాలతో పాటు నైపుణ్యత కూడా ఎంతో పెరుగుతుందని తెలిపారు. ఈ కార్యక్రమంలో ఈసినా హెచ్.ఓ. డాక్టర్ పూర్ణ ప్రియా, ప్రసన్నకుమార్ మరియు విద్యార్థులు పాల్గొన్నారు.

**Paper Clippings of 6-Day Workshop on PCB Design in DIET**



**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTUK, Kakinada)

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### Invitation for PCB Design Workshop



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**Department of Electronics & Communication Engineering**  
**In Association with**  
APSSDC  
Andhra Pradesh State Skill Development Corporation  
Presents



**A TWO WEEK'S WORKSHOP**  
ON  
**PCB DESIGN**

From: 10-03-22 to 23-03-22  
9AM to 4PM

INAUGURATION ON : 10-03-22

VENUE : For Inauguration Seminar Hall - 2, Fourth Floor  
For Workshop - Lab 1 & 2, First Floor

Dr. P. Poorna Priya HOD, ECE	Dr. L. Prasanna Kumar Skill Co-Ordinator, DIET	Dr. Challa Narasimham Principal, DIET	Sri Dadi Ratnakar Chairman, DIET
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R & D Convenor



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