

## **REPORT ON TWO DAY WORKSHOP ON PCB DESIGN**

**(12-10-2023&13-10-2023)**

Department of ECE, MRCE in association with VERTULONIX, Hyderabad ,organized a two day workshop on “PCB DESIGN” on 12-10-2023 and 13-10-2023. The VERTULONIX arranges the various kinds of Workshops on continuous basis to enhance student’s practical & technical skill and to make them compatible with industry.

The workshop was aimed to provide knowledge about Complete PCB Designing using simulation tool to test electronics & electrical circuit in software environment. PCB design software named PROTEUS design studio-8 to make physical PCB at home, so that any student can make project on his own. Almost 133 students out of 138 from II ECE members of our college have participated in the workshop.

Following contents are covered in workshop:

- ✓ Schematic Design
- ✓ Component Footprint Design
- ✓ PCB Design & Routing
- ✓ Etching of PCB
- ✓ Soldering of Component on to PCB.

Dr. Jagadeesh (M.tech, Ph.D), Technical manager, Vertulonix ,Hyderabad along with his team, Mr. Manoj, Mr. Mahendra and Mr. Giri have coordinated & executed 2-days of PCB Design workshop appreciably to make it successful to enhance student’s skill level. After attending this workshop students have expressed about their capability of Designing Special purpose PCB Of any Electronics Project. This workshop will be helpful for students for circuit development of their final year project.

On 12th October, 2023 the first session of expert talk started at 10:00 A.M by Mr. Manoj and Mr. Jagadeesh .They started with introduction of PCB Designing, Benefits of the workshop and its applications.

The afternoon session of Hands-on started at 1:30. P.M., They explained Schematic Design of Circuit on software PROTEUS Design studio-8 , benefits of using PROTEUS Design studio-8, and pointers to make precise schematic design.

On 13th October 2023, The First session of expert talk started at 9:30 A.M. by Mr. Jagadeesh. They gave introduction of PCB Design & Routing, Etching of PCB, and Soldering of Component on to PCB.

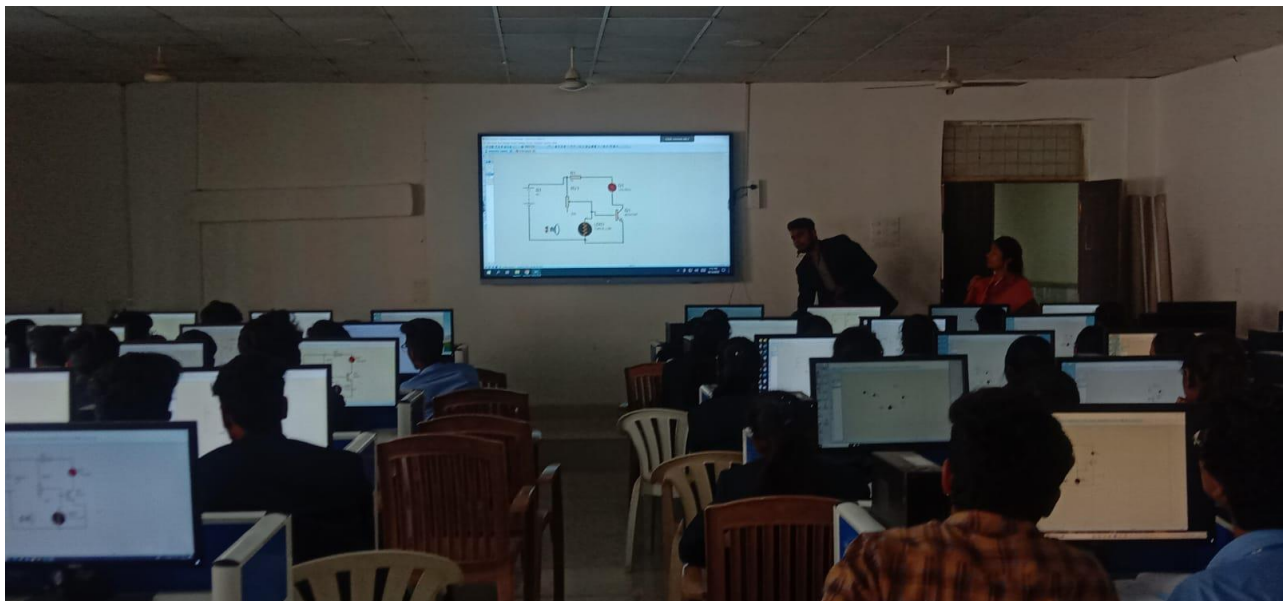
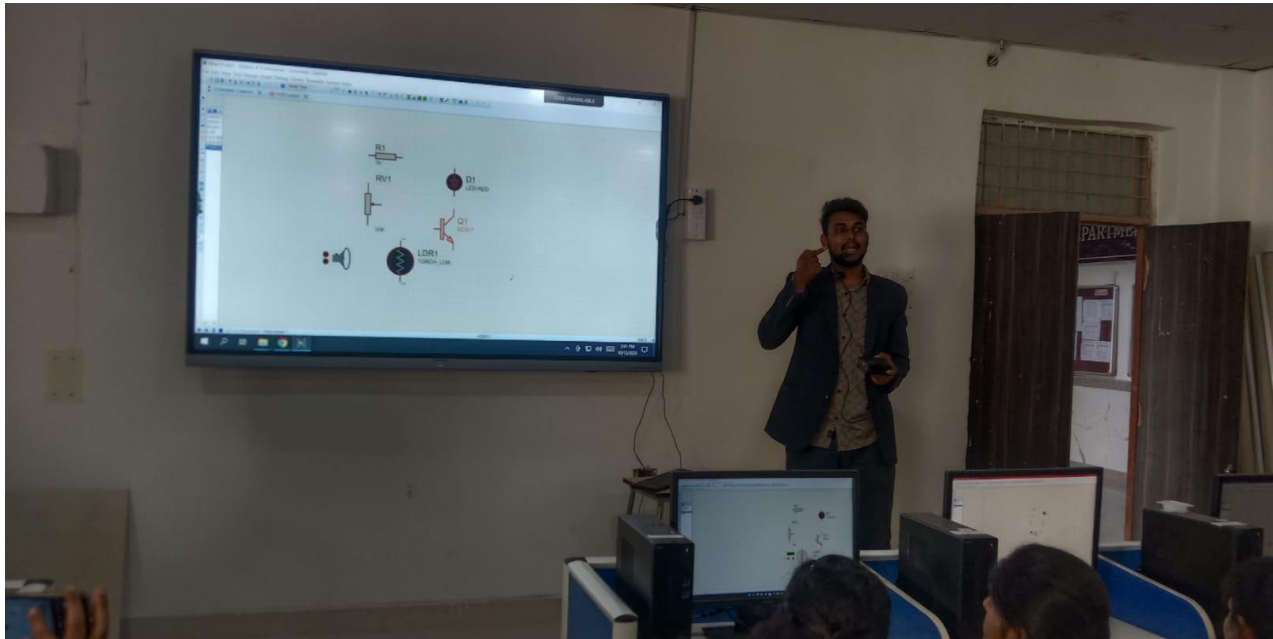
The second session of expert talk started at 1:30 P.M. by Mr. Mahender . He explained about PCB Soldering procedure & do’s and don’ts of making PCB. He also explained various circuits which can be used often by students and motivated students to keep designing such circuits.

On the last day, a valedictory Session and certificate distribution started at 3.30 PM. Dr. M.Ashok, Principal, MRCE, Dr.T.V.Reddy, Vice Principal, MRCE, Dr. M. Sandya Rani, In-charge HOD-ECE, MRCE, Mr.M.Shivakumar, Associate. Prof, Mrs.B.Madhavi, Associate Professor, ECE- Coordinators of the Workshop, Mrs. N. DivyaJyothi, Asst.Prof, Mrs.K.Sreevidya, Asst.prof, Technical manager, of Vertulonix has presided over the function. Feedbacks regarding workshop are provided by all students. All the students responded that they have learned and had hands on experience in designing a PCB. They were very excited about participation in this workshop and requested for more workshops in similar ways so that they can simultaneously gain the practical knowledge.

Dr.M.Ashok, principal, MRCE, Dr.T.V. Reddy, and Dr.M.Sandya Rani, in-charge Hod-ECE awarded the certificates to all the participants by hand. They personally congratulated every student for participating in the event and making it successful.

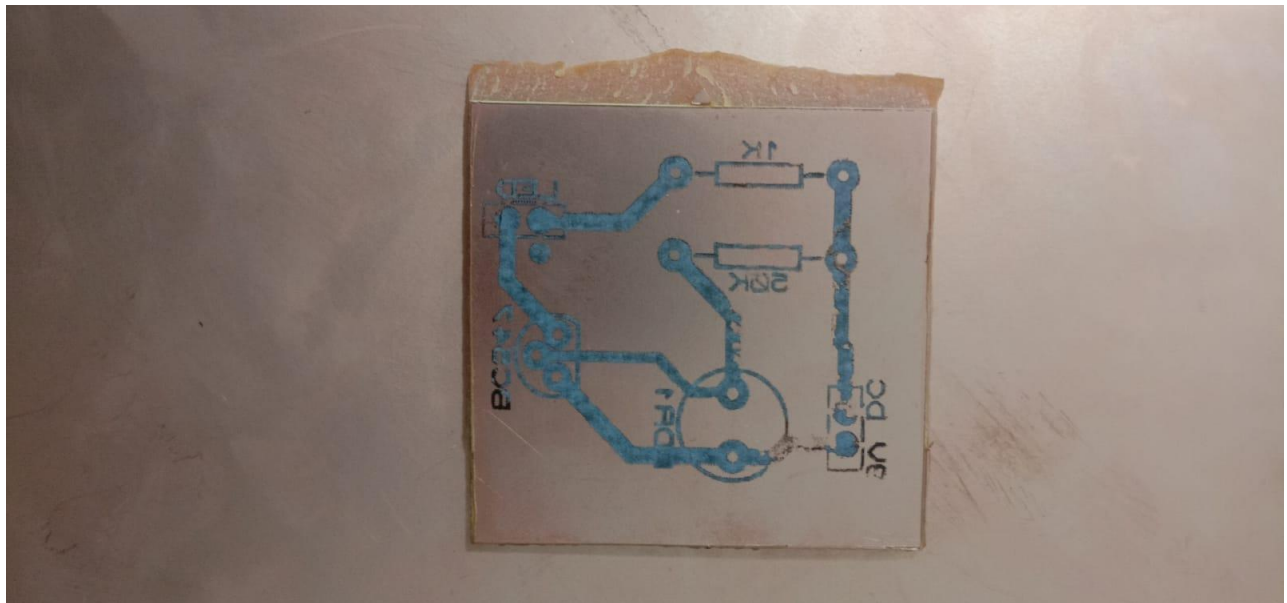
The vote of thanks & concluding speech to motivate the student to participate in such workshop was given by the Coordinator of the Workshop, Mrs.N.Divya jyothi. She thanked the management of MRCE, and the entire faculty of ECE department, MRCE for extending their continuous and valuable support in organizing and conducting these kind of workshops. She thanked every student for their active participation and interest in participating in the workshop.

## GLIMPSES OF THE WORKSHOP



**Circuit Design by the Participants using PROTEUS**





Process of Printing the Inner layers and removing the Unwanted Copper



**Drilling**



**Soldering**





**Dr.M.Sandhyarani,Inchrge-HOD-ECE,MRCEAddressingtheGathering**



**Dr.M.Ashok,Principal,MRCE  
AddressingtheGathering**



**Dr.T.V.Reddy, Vice Principal,MRCE  
givingInspirationalSpeech**







**Dignitaries giving Away the Certificate to the Participants**



