

**N. K. Orchid College of Engineering and Technology, Solapur**  
**One-week Students Internship Program**  
 by  
**Electronics & Telecommunication Engineering Department**

**Title:** “One week Internship on P.C.B Design”

**Duration:** 01<sup>st</sup> July 2020 to 07<sup>th</sup> July 2020

**Mode:** Online sessions organised using Google Meet

**No. of Participants attended:** Total 12 students from Polytechnic institutes, UG and PG

**Faculty Coordinators and Experts:** 1. Prof. A. A. Kshirsagar

**Program Objectives:**

By the end of this program, participants will:

- Install the required software tools
- Draw the Schematic Diagram
- Design the PCB Art work (Layout)

**Course Schedule:**

Sr. No.	Day & Date	Time	Topic
1.	Day 01 01/07/2020	11:00 am to 01:30 pm	Inauguration and PCB Software Installation Introduction to PCB software for schematic Hands on Schematic Design of IC741 tester circuit.
2.	Day 02 02/07/2020	10:00 am to 12:30 pm	Introduction to PCB Design software and schematic Hands on IC741 Schematic Design
3.	Day 03 03/07/2020	10:00 am to 12:30 pm	Hands on IC741 PCB Design
4.	Day 04 04/07/2020	03:00 pm to 05:30 pm	Hands on Schematic Design of IC555 tester circuit. Hands on IC555 PCB Design
5.	Day 05 06/07/2020	01:00 pm to 03:30 pm	Hands on Schematic Design of Dual Power Regulator circuit. Hands on PCB Design of Dual Power Regulator circuit.
6.	Day 06 07/07/2020	11:30 am to 1:30 pm	Completion of Dual Power Regulator circuit Valedictory Function Principal Sir’s Presentation and address Interaction with Participants Participants view sharing and discussion

7.	Day07 08/07/2020	11:00 am to 11:30 am	Difficulties Doubts clearing Group Photograph End of Internship
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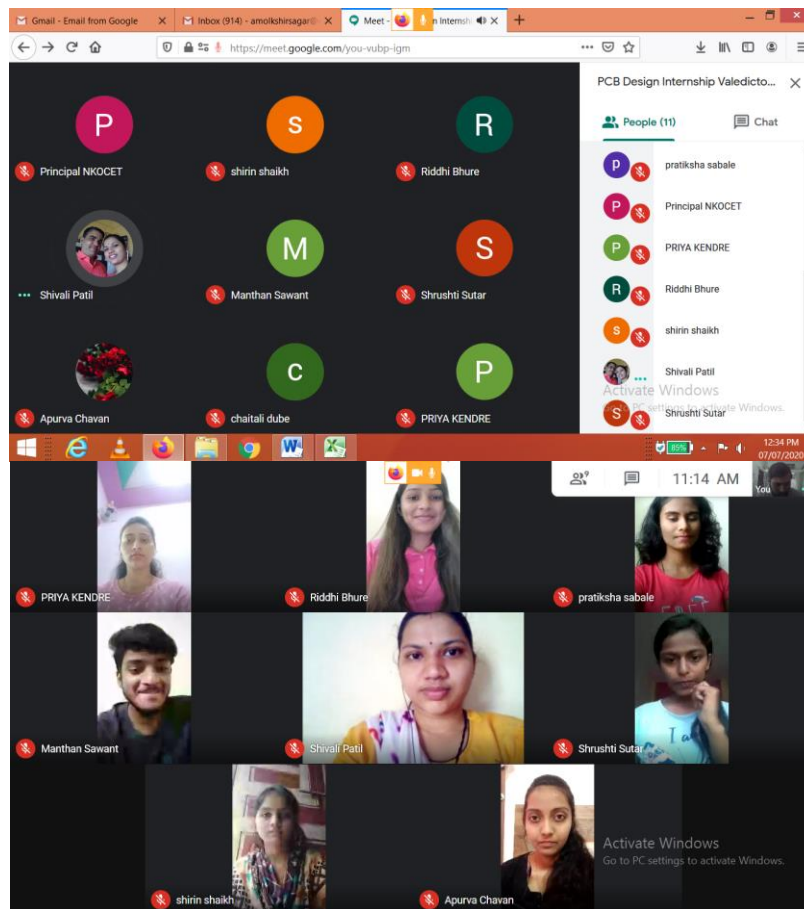
On 01<sup>st</sup> July 2020 the online internship program on “PCB Design” started. PCB Software Installation was done on first day itself so that participants could start using it.

Prof. A. A. Kshirsagar conducted the sessions for students making them learn various aspects of PCB Design. During the entire course 3 circuits were completed by students as mentioned in the schedule. It was a hands on approach where students followed the instructor.

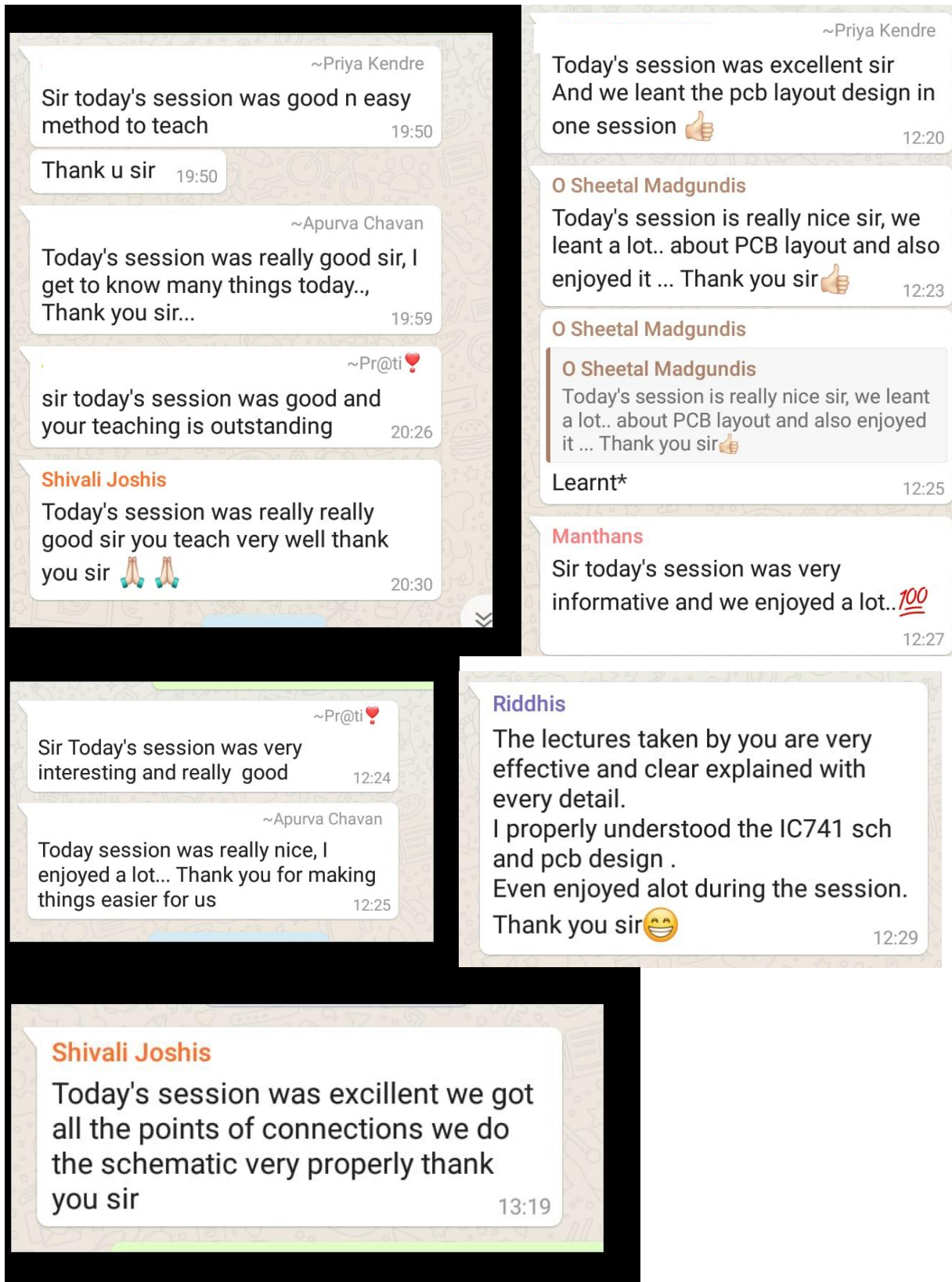
On 08<sup>th</sup> July 2020 the Internship was completed and Online Valedictory Function was conducted in the gracious presence of our Principal, Dr. J. B. Dafedar. He addressed the students by giving a wonderful presentation and then he interacted one to one with all students. All students expressed their views and internship came to an end. One important note to be taken is that two PG students also attended the entire course. Most of the students were from G.P., Pune.

The entire course was planned, coordinated and conducted by **Mr. A. A. Kshirsagar** along with a strong support from entire E&TC Department.

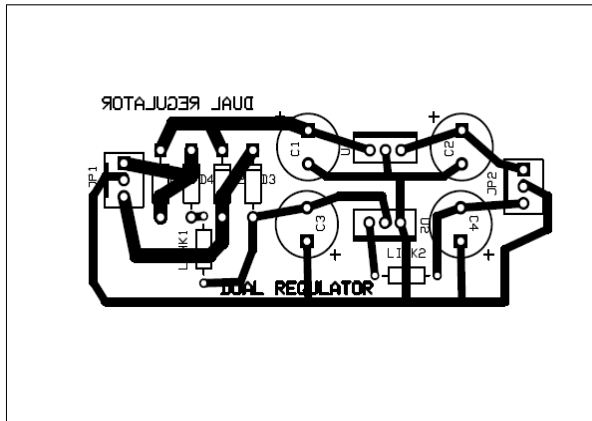
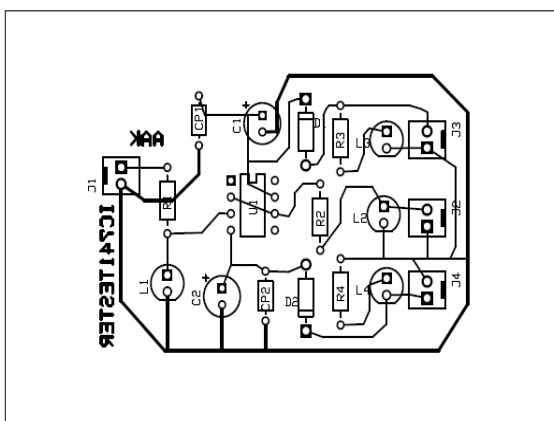
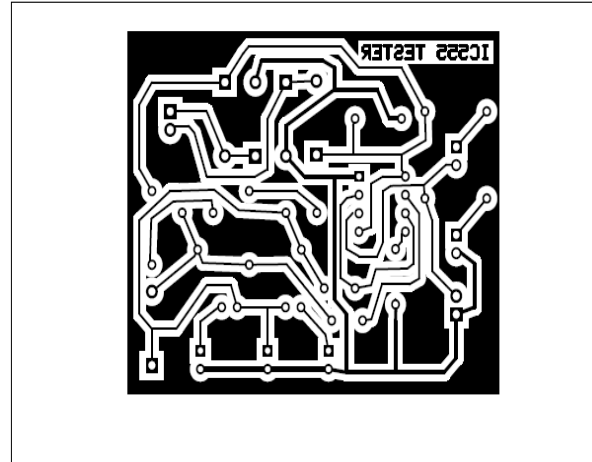
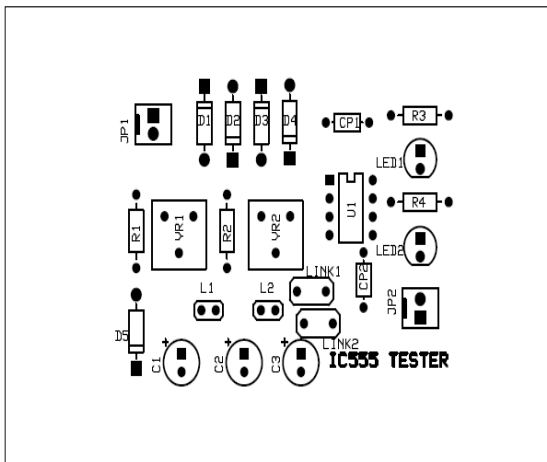
Group photograph of students for the Internship:



Few Feedback glimpse from students for the internship on Whats-app group:



Glimpse of PCB designed:



The students were very happy and they would love to attend the Internship again.

Mr. A. A. Kshirsagar  
Assistant Professor, E&TC Department