

JSPM's
Jayawantrao Sawant College of Engineering, Hadapsar, Pune-28
Department of Electronics & Telecommunication Engineering
Academic Year 2021-22 / SEM-I

Date: 09/10/2021

Report on “PCB Design Using Proteus Software”

Goal: To explore the information on PCB Design Technology by Using Proteus Software and its applications among students.

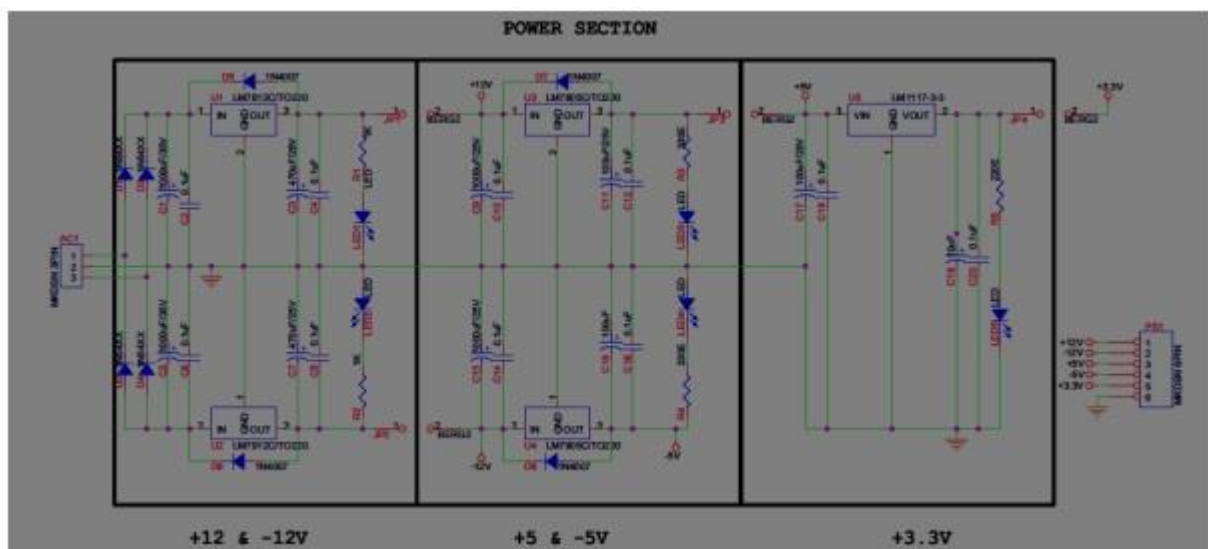
Objectives: Generating awareness and Technical Skills development in the field of PCB Design technology and its applications.

The *One Day PCB Design workshop using Proteus Software* was organized by Dept of E&TC Engineering, Jayawantrao Sawant College Of Engineering Hadapsar Pune. The workshop was scheduled on 9th October 2021 from 11.00 am to 3.30 PM. The Students of SE and TE Class of E&TC dept participated in this Workshop. The 120 plus students registration has been achieved for the event. The schedule and the topics covered during one day workshop and the speakers are as follows.

Workshop started with the keynote address delivered by giving insights and objectives of conducting this PCB Workshop.

Technical Session Started with Following Contents:

- 1) The technical session started with *Power Supply Requirement and Design*.
- 2) The power supply requirement is generally **12V, 5V and 3.3V DC** output with about **3 Amp** (Max) current capacity.



3) Power supply required for different controller

a) 8051 = 5 V b) PIC Controller = 5 V c) AVR = 5 V d) ARM = 3.3 V

- 4) **Types of Power Supplies:**-Linear regulated power supply and Switched Mode Power Supply (SMPS)

- 5) Hands-on practice is given on **Proteus software** and also discussed about various software that can be used for PCB Design.
- 6) The **5V power supply design** was simulated using the **Proteus software**.
- 7) The **PCB circuit** is designed & simulated for **5V power supply**.
- 8) Glimpses of PCB Design are attached under photos of the events.

The interactive Sessions were conducted by the speaker, highlighting the advances in PCB Design and Manufacturing process. The PCB Workshop was organized under the guidance of Head of the Department Dr. C. A. Manjare. The overall coordinators for this PCB Workshop were Prof. B S Biradar along with the team of Prof. Zende madam and Prof. Mahulkar sir.

Outcome: The students got inspired from the PCB Workshop and were able to work on PCB Design technology in proteus software.

1. Students came to know opportunities in the PCB design and its applications.
2. Students came to know about different platforms available to develop PCB and its use in Mini/Major project development.

Prof. B. S. Biradar
Overall Coordinator

Dr. C. A. Manjare
HOD (E&TC)

Photos of the Event :

