



## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

### **PRINTED CIRCUIT BOARD DESIGN LABORATORY**

**Lab incharge :Mr.K.Sheik Davood**

**Lab instructor : Mr. P.Sakthivel**

#### **Overview:**

SIENNA ECAD is a total solution provider to the electronics industry with design capabilities from System definition to manufacturing. Sienna Corporation, a Sienna Group company, is an electronics manufacturing services provider based in USA with facilities in Atlanta, Fremont and Chicago. Other SIENNA Group companies are Avalon Technologies, an Electronic Manufacturing Services company based in India with facilities in Chennai & Bangalore. Department of ECE organized an inaugural program for PCB Design Engineering on 25th June 2015 for final year students. The students of ECE took PCB Design Engineering as their elective paper. Students felt it very useful and they gained practical knowledge of PCB Design in Industrial Applications. Mentor Graphics tool is used for PCB Design and is included in our academic curriculum and many final year students are interested to do their projects in PCB.

**The area of laboratory is 86.72 Sq.m**

#### **Available Tool:**

- HP system 25 no's
- HCL system (server)
- PCB mentor graphics software with 25 license-xpedition enterprise tool



### Course Offered details:

Trainer name	Manikandan P
Designation	Project Associate
Subject (Theory)	PCB Design Engineering
Sub Code	UEC127510
Laboratory	Project Phase -1
Software Provider	Mentor Graphics
Software Package	Xpedition Enterprise X-Entp Vx.1.1
Software Cost	Inr 1.5cr (For 25 User)
Company Name	Sienna Ecad Technologies,Bangalore

### Objectives:

The Student should Made to

- Learn the Basics building blocks in PCB design
- More knowledge in the different packages aspects.
- Be familiar with the design tools and parameters
- Be exposed to the performance of various terminologies.
- Learn the fabrication and assembly in advance technology.



## Outcomes:

Upon completion of the course, the students will be able to

- To design a complete electronic product.
- To increase efficiency of the system design.
- To design high speed printed Circuit board with minimum interference.
- To make our world free from unwanted electromagnetic environment.



Snapshot of printed circuit board design laboratory