

# CENTER OF EXCELLENCE - PCB DESIGN SYSTEM LAB

## COLLABORATION INDUSTRY DETAILS

COMPANY NAME : SIENNA ECAD TECHNOLOGIES, BANGALORE  
C.E.O NAME : Mr.O.J.SATHISH  
V.P NAME : Mrs.SAVITA R GANJIGATTI  
DOMAIN : PCB BOARD DESIGNING (TILL NOW 6000+ PCB BOARD are done)  
COMPANY BRANCH : BANASHANKARI, WHITE FIELD and HUBLI  
TRAINER NAME : MANIKANDAN.P and MUTHUKUMARAN.M  
DESIGNATION : PROJECT ASSOCIATE

## OBJECTIVE

To Learn the Basics building blocks in PCB design with adequate practical training provided by industry expert. More knowledge in the different packages aspects were developed through this center. And familiar with the design tools and parameters to the performance of various board design terminologies. Train in the field of fabrication and assembly by advance technology.

## RESEARCH ACTIVITIES

Xpedition® Enterprise from Mentor Graphics is the industry's most innovative PCB design flow, providing integration from system design definition to manufacturing execution. Its unique, patented technologies can reduce design cycles by 50 percent or more while significantly improving overall quality and resource efficiency.

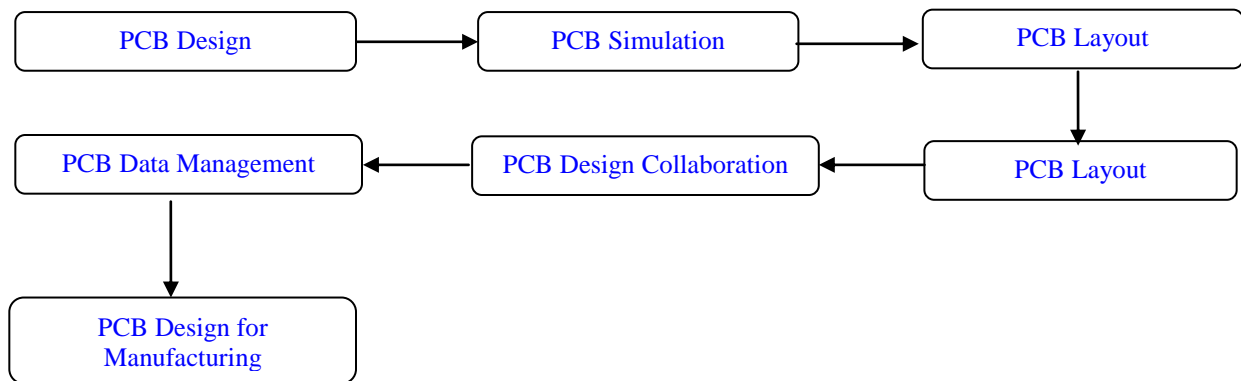


Fig 1: Design flow in PCB Manufacturing Process

## PROCESS UNDERGONE IN THE RESEARCH LAB

- Capture, verify and communicate design intent throughout the PCB design flow.
- Maximize the benefits of PCB virtual prototyping resulting in higher quality products, faster.
- Collaborative placement and routing of highly complex printed circuit boards.
- Facilitate collaboration of technically diverse, globally dispersed design teams.
- Single, integrated solution for WIP design and library management.
- Achieve first-time-right designs that meet PCB's most demanding manufacturing process rule-sets.

## FACILITIES AVAILABLE

HP Desktop System: HP 280G1

Pentium Dual Core G2305 Processor  
4GB RAM, 500GB HDD, DOS /Key Board/ NO Odd  
18.5 Wide Led with 3/3/3 HP  
System Product No: M2M17PA#ACJ  
Monitor Product No: G9W86AA

|                         |                   |                                      |
|-------------------------|-------------------|--------------------------------------|
| Software Accessibility: | SOFTWARE PROVIDER | : MENTOR GRAPHICS                    |
|                         | SOFTWARE PACKAGE  | : Xpedition Enterprise X-ENTP VX.1.1 |
|                         | SOFTWARE COST     | : INR 1.5Cr (FOR 25 USERS)           |