

## COURSE MODULES:

This is a basic course for designing PCB using the software. PCB (Printed Circuit Board) designing is an integral part of each electronics product and this program is designed to make students capable to design their own projects PCB up to industrial grade.

This skill is called PCB design and it's easier than many think. In this guide, I'll lay out all the steps for you. And once you've gone through these steps one time, the second time everything is much easier. Without Printed Circuit Boards, our devices would not be able to function. They are essential in connecting different components and allowing for communication between them. Additionally, PCBs help protect these components from damage and interference.

PCB designing is a growing field with many opportunities for skilled talent in terms of career opportunities. With rising advancements in technology, communications and computing, the need for professional PCB designers continues to grow.

## COURSE OBJECTIVES:

- Identifying Electronic Components Symbols & Footprints
- Constructing your Component libraries & use them effectively
- Schematic creation & interpretation
- Effective use of design rules & interfacing between schematic & PCB

- Component placement & routing techniques for various technologies

## EXPECTED OUTCOMES:

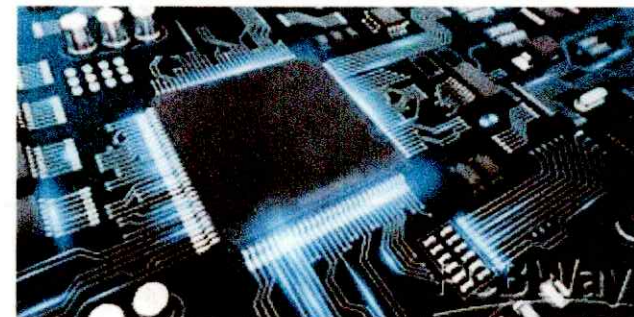
At the end of the course, students will have the ability to:

- Students are able to design a schematic of their circuit. Students are able to design PCB layout of their design. Students are capable to produce PCB of their own circuit.
- The course is intended to give the students the necessary knowledge and of PCB design steps, starting from a simple schematic, through creating new components, and all the way to down a final PCB layout.
- Recognize the technologies used in electronic industry through the practical experience gained in the course.

# VIGNAN'S

## INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(Sponsored by Lavu Educational Society)  
Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.  
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301



ADD-ON COURSE ON

## “DESIGN OF PCB”

10<sup>TH</sup> TO 15<sup>TH</sup> FEB, 2020

Resource Person:

**Mr. M. Karthikpal,**

Assistant Professor,  
Department of ECE.

Duration of the Course : 36 Hrs

Co-ordinator  
Vignan's Institute of Management & Technology For Women  
Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt)-501301  
Telangana State

**Mr. G. Ganesh Reddy,**

Assistant Professor,  
Department of ECE.

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Venue:  
**Room No-BFF-8,  
VMTW.**

Organized by:

**DEPARTMENT OF ELECTRONICS  
AND COMMUNICATION ENGINEERING**

LAST DATE FOR REGISTRATION: 6<sup>TH</sup> FEB, 2020

