

The perfect balance between theory and practice ...



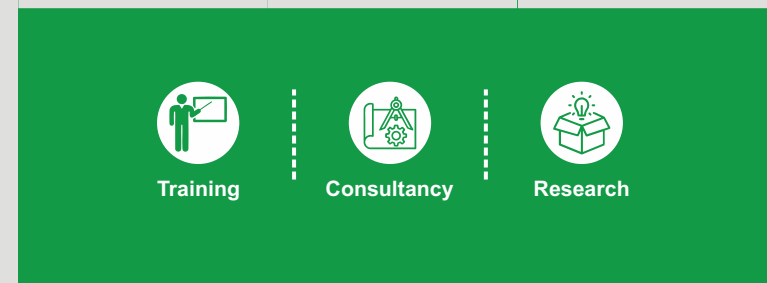
CONTACT INFORMATION

AKGEC-FABLAB

- 📍 AKGEC SKILLS FOUNDATION
AKGEC Campus
27th Km Stone, NH-24, Delhi - Hapur Bypass Road
Adhyatmik Nagar, Ghaziabad - 201009
- 🌐 www.akgec-fablab.org
- ✉ akgecfablab@gmail.com
- 📘 www.facebook.com/akgecfablab

To know more about Training, Research & Consultancy
Call Us at: 91-8756164835, +91-9990240938, +918766213734

TOLL FREE : 1800-3000-6484



Training on PCB Designing
PCB Milling | EAGLE CAD | PCB Fabrication

AKGEC SKILLS FOUNDATION

AKGEC-Skills is an initiative promoted by AKGEC & NSDC, Ministry of Skill Development & Entrepreneurship. The objective of this initiative is to encourage skill development for youth to increase productivity of the existing workforce and align the training and certification needs of the country's youth. AKGEC SKILLS works to promote training, education and upskilling activities in the fields of Industrial Automation, Robotics and Advance Manufacturing processes. Under this initiative nine state of art centres are operational. These centres have been set up in collaboration with several key Industry Partners including SIEMENS, BOSCH Rexroth, KUKA Robotics, Mitsubishi Electric, Fronius, Schmalz, CARL Zeiss and Pepperl+Fuchs .

About AKGEC FABLAB

A Fabrication Laboratory is a technical prototyping platform for innovation and invention which aims at providing stimulus for students and serves as a platform for learning and innovation. Fab Lab Foundation program began as collaboration between the Grassroots Invention Group and the Center for Bits and Atoms at the Media Lab in the Massachusetts Institute of Technology (MIT). The Fab Lab also becomes a medium for connecting to a global community of learners, Educators, Technologies, Researchers and Innovators-essentially becoming a self-sustaining global knowledge sharing network. It also have global network of nearly 2000 local labs across the world. A fabrication Laboratory (FABLAB) is a technical prototyping platform for learning and innovation. It is a small scale workshop offering Digital Fabrication which empowers students and other users to create smart devices for themselves which can be tailored to local or personal needs. At a time when engineering is supposedly losing its shine because of degradation in educational standard, AKG Engineering College shines out at a savior with its visionary approach and state of art engineering excellence

PCB Milling

PCB milling machines provide an accessible, fast, reliable, repeatable way to turn low-complexity designs into prototypes, in about an hour. Here we'll cover the basics of circuit milling by using SRM20, to produce an existing circuit board design. After taking the class, You will be able to produce your own circuit board designs.

- Learn about milled circuit board design consideration (Advantages and Disadvantages)
- Optimize designs for reliable milling
- Using appropriate files for milling
- Selecting appropriate material
- Experience a demonstration on the milling process
- Accommodate surface mount and through-hole designs

EAGLE CAD

This Section is designed to teach you how to use EAGLE CADSOFT, One of the best PCB design software, even if you don't have any background in PCB design.

As products get smarter—and as the Internet of Things (IoT) becomes more a part of everyday life—electronic components are more commonplace in product design and prototyping. In this section, learn how to prepare electronic schematics for fabrication as printed circuit boards (PCBs) using the EAGLE PCB layout software from Autodesk. Our Instructor will demonstrate how to design a circuit in schematic view and translate it to a physical PCB design.

- What is EAGLE ?
- Designing layouts, Schematics and Boards

- Analysing your project , selecting the components you need, working with components data sheets
- Routing and Checking your design from any design error / electrical errors
- Adding Custom Imagery
- Creating a device using data sheet

PCB Fabrication

Soldering involves a small number of fairly simple chemical, physical and metallurgical forces. Unfortunately, the electronics industry has changed a rather straightforward science into an incomprehensible collection of myths and legends. The difficulty is made worse by training (telling people what to do) rather than educating (showing why).

The course teaches by troubleshooting a complex hands-on soldering process problem. In solving the problem (which involves several causes rather than a single root cause), the class learns the critical scientific forces that control all soldering from simple hand soldering to the most complex machine soldering.

- Learn how to choose the right soldering Iron / Technique
- Learn how to change the soldering Iron tip head / Nozzels
- Learn how to clean your soldering Station
- Learn how to extend soldering Station life span
- Learn what are the right tools you need to have to keep yourself safe while soldering and solder the right way
- Learn the difference between good soldering and bad soldering with real life examples.