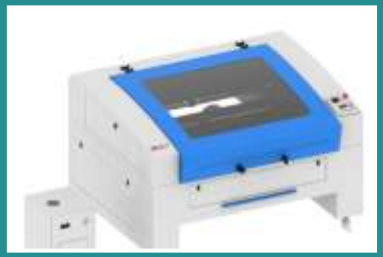
Industrial Application

Design

3D Printing

Laser Cutting



Vinyl Plotter

CNC Wood Router

CENTRE ACTIVITIES

- **Training Programs** — Students / Professionals
- **Consultancies**
- **Internships**
- **Webinar**
- **Workshops** — Inhouse / Onsite
- **Industrial Projects** — Proof of Concept/ Prototyping

The perfect balance
between theory and practice ...

40 : 60

TRAINING | **Consultancy** | **Research**

CONTACT INFORMATION

AKGEC-SIEMENS Product Life cycle Management

AKGEC SKILLS FOUNDATION
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Industrial Training on DIGITAL MANUFACTURING

SIEMENS
Product Lifecycle Management

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 .

AKGEC-SIEMENS: Product Lifecycle Management

To develop engineering professionals equipped with next-generation technologies, AKGEC jointly with SIEMENS Industry Software has setup PLM Centre of Excellence at AKGEC campus. This COE provides education to the next generation of designers / engineers on state of art software's such as SOLID EDGE, NX-CAD / CAM / CAE for digital product engineering, Team centre for digital life cycle management and Technomatix for digital manufacturing This COE address diverse industry segments like automotive, industrial machinery, Industrial automation, aerospace and shipbuilding etc.

About Course

With the increasing sophistication of many design software, there is now a wide array of means for both designing and fabricating products, machines and their components. The proliferation of advanced modeling software and hardware has enabled Engineers, Designers and students to conceive and create designs that would be very difficult to do using more traditional methods. This course focuses on the inspiring possibilities for design and fabrication that can be achieved with all the different technologies and techniques available for making complete designs. It is a SIX weeks program, which teaches principles and basics of digital fabrication techniques.. A standard setup helps in systemic approach to innovation and project development.

- Introduction to Product Life Cycle Management and its application
- 3D & 2D CAD Sketching & Modelling
- Complex Assembly & Drafting Essentials
- Model concepts of Manufacturing
- Planar and cavity milling operations
- Fixed contour operations & Z-Milling operations
- Post processing and shop documentation
- Introduction to Additive Manufacturing and various technologies.
- FDM based 3D printing Technology
- Learning of various 3D printers (Makerbot Z-18, Ultimaker)
- Hands on session with printers and their software's
- Introduction to Computer Controlled Cutting
- Hands on session with Laser Cutter & Vinyl plotter
- Hands on session with RD works, Graphtec software & Aspire
- Hands on session with CNC Wood Router

Highlights

Implementation	:	Theory & Practice
Language	:	English
Duration	:	6 Weeks
Prerequisite	:	Engineers, B.Tech pursuing Students
Training Location	:	AKGEC-FABLAB
Certification Partner	:	SIEMENS

Features

- Ensure accuracy of drawings and compliance with standards
- Technical expertise to fabricate the design
- Enhance design with critical information and build the components upon it
- Interpret data quickly and accurately
- Improve decision-making for product prototyping
- Automatically monitor designs for compliance with standards and requirements

Outcomes

- Trainee/student will be able to design and analyze its critical information.
- Enable the student/trainee to learn and control the modern day fabrication machines.
- Enable the student/trainee to fabricate components using the available machinery.
- Student/ Trainee will be able to convert his/her design into reality.