

Industrial Application

Aerospace



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CENTRE ACTIVITIES



The perfect balance
between theory and practice ...



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AKGEC-SIEMENS Product Life cycle Management

📍 **AKGEC SKILLS FOUNDATION**

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Training on "Design for Additive Manufacturing"

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

The main objective of the course is to train participants and to develop their skills on Design tool like Solid-Edge and able to create complex industrial components and able to convert their creative and innovative ideas into reality with the help of Solid Edge and prototyping technology with the industrial grade 3D printers.

- Introduction to Product Life Cycle Management and its application
- 3D & 2D CAD Sketching
- 3D Modeling
- Complex Assembly
- Drafting Essentials
- 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



|| Highlights

- Implementation : Theory & Practice
- Language : English
- Duration : 40Hrs/1Week
- Prerequisite : Engineers, B.Tech pursuing Students
- Training Location : AKGEC-PLM
- Certification Partner : SIEMENS

|| Key Takeaway

- Certification by AKGEC SIEMENS.
- Hands-on with CAD software.
- Validate designs against product requirements.
- Assignment Based Learning.

|| Outcomes

- Learn about the materials, designing of CAD models, working of a 3D Printer.
- Enable to understand how to build and calibrate a 3D printer.
- Enable to understand the basics of G code generation.
- The participants will get 3D printed models that they design.

