



Madanapalle Institute of Technology & Science

(UGC- AUTONOMOUS INSTITUTION)

Madanapalle-517325, Annamayya Dist., Andhra Pradesh

TECHNICAL SKILL DEVELOPMENT INSTITUTE (t-SDI)

APSSDC SIEMENS: Design - Computer Based Training (CBT) Lab

Description

A Design-Computer-Based Training (CBT) lab is a dedicated facility or environment where Students/Faculty can access computer systems and software applications to learn, practice, and develop their skills in various subjects or disciplines such as CAD/CAM. This lab is designed to provide a structured and interactive learning experience using technology. Design/CBT lab covers CAD, CAM & CAE exercises.

Objectives of CBT Lab

The objectives of a Design-CBT lab are to foster a dynamic and adaptable learning environment that empowers individuals to acquire new skills, deepen their knowledge, and achieve their educational or professional goals through the effective use of computer-based resources and technology. The main objective of this lab is to teach students and the community with the theoretical fundamentals, advanced commands, and tools necessary for 3D modeling, assembly, and 2D drafting using Siemens Solid Edge and Manufacturing NX software.

After completing the course, a student will be able to:

- Understand an overview of CAD/CAM and its applications in various fields
- Demonstrate common various commands/tools for drafting techniques and shortcuts
- Enhance the learning experience in technology-driven educational resources
- Develop specific technical skills, such as modelling, drafting, graphic design, or software proficiency
- Get hands-on experience and apply theoretical knowledge in a practical setting.
- Collaborate and teamwork among students and can facilitate group projects and activities, promoting peer learning and problem-solving.



APSSDC

Andhra Pradesh State Skill Development Corporation





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- Learn research and innovation in the latest cutting-edge technology and tools for experimentation and exploration.

Key areas covered

- Computer-Aided Design (CAD) (Design)
- Computer-Aided Manufacturing (CAM) (Manufacturing)
- Computer-Aided Engineering (CAE) (Simulation)
- Siemens PLM Software
- POD software for online demonstration of various labs

Available Software

- Solid Edge, NX CAM
- Siemens PLM Software
- POD



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View of Computer-Based Training (CBT) Laboratory



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