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Computer-Aided Design (CAD)

Computer-Aided Design (CAD) software is used in designing electronic systems, in mechanical design or computer-aided drafting which includes the process of creating a technical drawing with the use of computer software. With CAD software you can design curves and figures in two-dimensional (2D) space, or curves, surfaces, and solids in three-dimensional (3D) space.

Course Information

Type	Virtual, Lab
Languages	English
Hours of instruction:	
Pro/ENGINEER	15
Solidworks	12

Industrial Design using Pro/Engineer

Industrial Design with Pro/ENGINEER introduces the fields of industrial design, engineering, and drafting. Students explore various career possibilities and learn how to use Pro/ENGINEER Wildfire as an engineering design tool.

Course Outline

- Introduction
- Creating a Simple Part
- Getting Started
- Shelling a Part
- Creating Patterns and Rounds
- Creating Internal Pins
- Adding Supports
- Adding Color to the Part
- Creating an Assembly
- Beginning the Cell Phone
- Speaker and Microphone
- PC Board
- Back Cover
- Back Cover Completed
- Assembling the Cell Phone
- Multiview Drawing
- Designing a New Keypad

Computer-Aided Design with Solidworks

Computer-Aided Design with Solidworks teaches students how to use Solidworks 3D mechanical design software to build parametric models of parts and assemblies.

Course Outline

- Introduction to SolidWorks
- Sketching the Cover
- Extruding the Cover
- Working Drawings
- Drawing the Crank Wheel
- Drawing the Link Arm
- Drawing the Base
- Drawing the Stamp Block
- Adding Text
- Assembly
- Project: Crank Handle

Computer-Aided Design courses include LearnMate®, Intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). The LearnMate e-learning suite provides everything needed for the ultimate blended learning experience:

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national academic skill standards

Ordering Information

LM7 Content, Virtual, Industrial Design with Pro/ENGINEER	77-3098-0001
LM7 Content, Virtual, Computer-Aided Design with Solidworks	77-3108-0002

Contact Us:

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