



TRINITY COLLEGE FOR WOMEN NAMAKKAL

DEPARTMENT OF COSTUME DESIGN & FASHION

**COMPUTERS IN GARMENT INDUSTRY
ODD SEMESTER**

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CAD IN GARMENT INDUSTRY

INTRODUCTION

- Computers have influenced every sphere of our life in one way or other.
- Computers are making human life easier and comfortable.
- Computers are helping to design, analyse and manufacture the product with short span of time in engineering applications.
- A computer is a fast and accurate data manipulating system that is designed to automatically accept and store input data.
- Process them and produce output results under the directions of a stored program. Computer is a tool to increase productivity in many aspects of our life.

CAD

- Computer-aided design (CAD) is the use of computer systems to assist in the creation, modification, analysis, or optimization of a design.
- CAD software is used to increase the productivity of the designer, improve the quality of design, improve communications through documentation, and to create a database for manufacturing.
- CAD output is often in the form of electronic file for print, machining, or other manufacturing operations. • Commonly used software used for CAD are AUTO CAD, MSVISIO, Smart Draw etc.

USES OF CAD

- Software is used in the textile industry:
- Helps designers draw accurately.
- You can see the products in 3D.
- You can rotate the design and view it from all angles.
- To make changes and modifications quickly and easily.
- To experiment with different patterns, textures and colour ways.
- To develop basic or standardised designs.
- To improve the quality of the design.
- To use simulations to test the design.

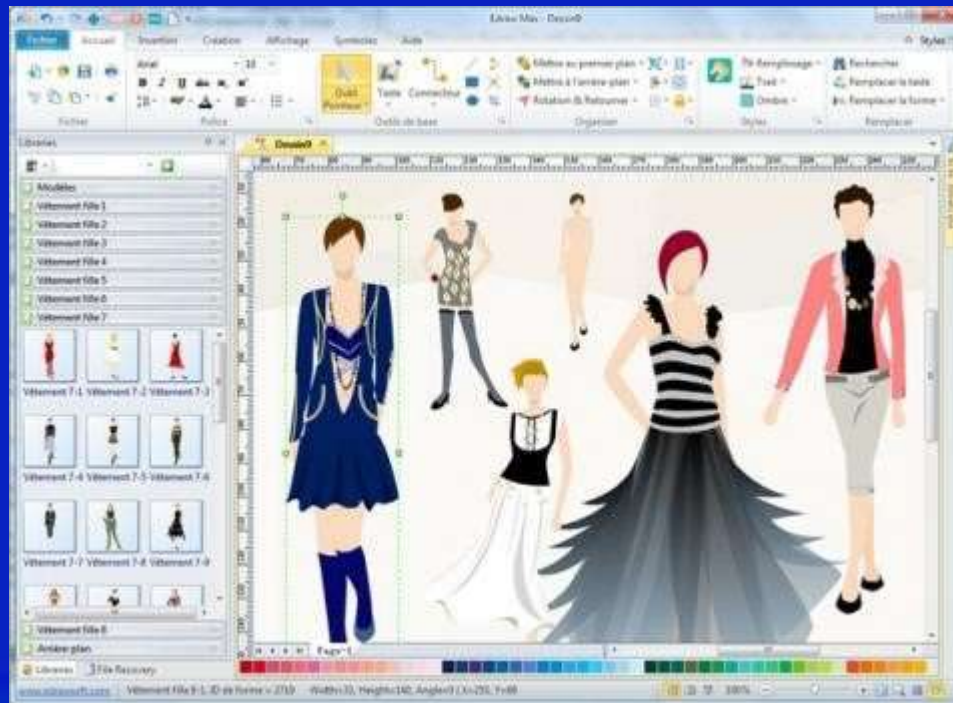
Phases of CAD

CAD actually encompasses all those activities of product design cycle with converts a workable concept into a ready to manufacture product specifications. The various sections are:

- Geometrical Model
- Design and Analysis
- Design Optimization
- Drafting and Documentation

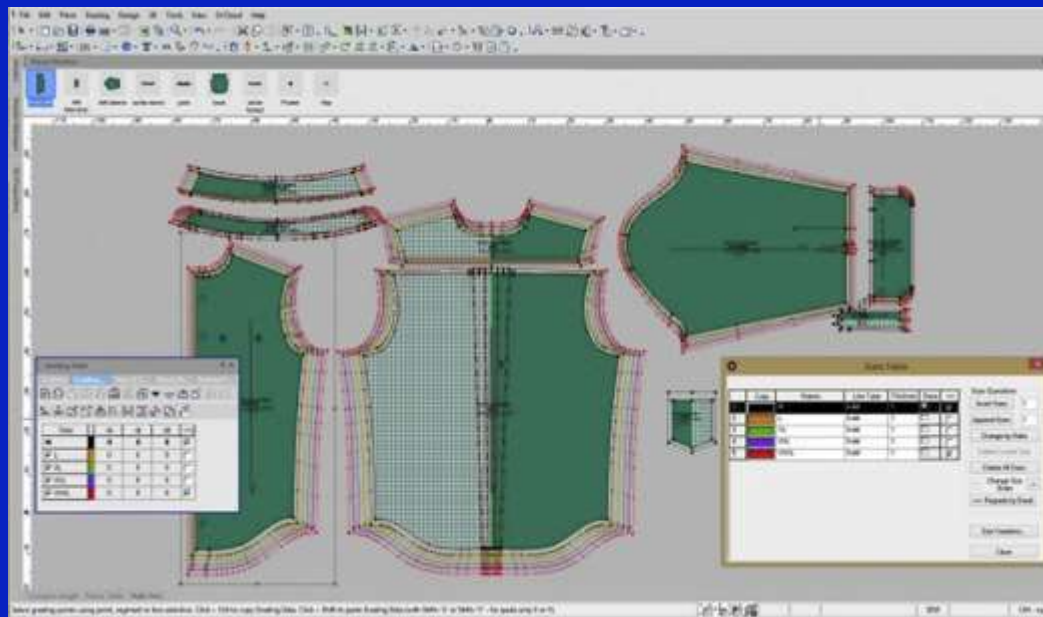
CAD in textile designing

These pictures show a range of fabric patterns and body forms with the colour range of the product. This is completed using a CAD programme.



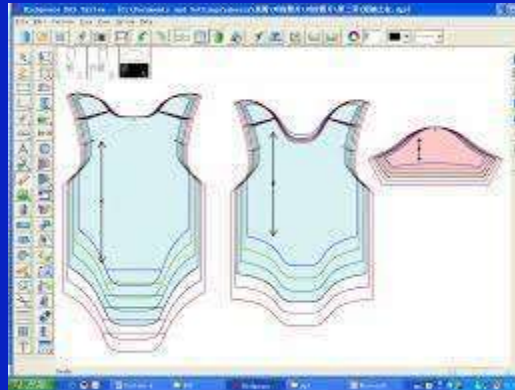
CAD in Pattern Making

- Pattern can be designed in two ways using Richpeace, Gerber, Lectra software
- Two methods are direct and formula method



Computerised Grading

- The process of resizing the initial pattern is called "grading." For example, the sample size 10 patterns must be made larger to accommodate sizes 12, 14 and 16 and smaller for sizes 8 and 6.
- Pattern grading is the scaling of a pattern to a different size by implementing important points of the pattern using an algorithm in the clothing and footwear industry



THANK YOU

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