

Textile Design and Quality Control (TDQC)



Training on CAD system is a program for developing design skills for woven, print and embroidery designs. The full time program on Textile Design and Quality Control offers design led approach to produce innovative textile designers. On completion of the program, students will be able to design and produce commercially viable woven, print and embroidered textile designs for home furnishing and fashion garments. The program also deals with the quality control aspects of fibres, yarns and fabrics which are essential for the development of individuals.

Program content:

Module 1 - Elements of Textiles

- Introduction to textile fibers
- Types of yarns & counting systems
- Introduction to weaving & preparatory process
- Introduction to knitting process
- Study of different types of loom & its motions
- Textile calculations

Module 2 - Fabric Structure & Ormentation Techniques

- Principle of designs
- Basic & Advance weaves
- Fabric Analysis (weave & construction parameters)
- Process of developing Dobby & Jacquard designs
- Designing of terry towels & tapestry fabrics
- Woven sample development
- Printing & Embroidery techniques
- Block Printing, Tie & Die and Batik Printing

Module 3 - Quality Evaluation of Textiles

- Introduction to various textile testing instruments
- Quality evaluation of fiber, yarn & fabric
- Quality inspection systems
- Statistical applications in textile manufacturing

Module 4 - Information Technology

- IT tools and applications
- Internet and web designing
- Computer graphics and applications
- System maintenance and troubleshooting



Module 5 - Computer Aided Textile Design (CAD)

- Understanding of various tools used in CAD designing softwares
- Scanning, editing, repeat setting and processing of textile designs by CAD
- Developing Dobby and Jacquard design (using woven CAD)
- Developing coloured stripes and check patterned fabrics by CAD
- Developing Print and Embroidery designs (using print & embroidery CAD)
- Design simulation & 3-D Texture Draping

Module 6 - General Management

- Human Resource Development
- Social compliance (SA -8000)
- Business communication

Career Opportunities: Students after completing this program can start their career as textile designer, sampling coordinator in textile/garment/home furnishing units and can also work as free lance designers.