

(Textile Engineering Department)

Undergraduate

Course Title: Statistical Quality Control Lab

Prerequisite: Statistical Quality Control

Number of Credits: 1

Lecturer: Dr. Seyed Mohammad Hoseini Varkiani

Course Topics:

- Fabric thickness and Fabric crease recovery test
- Fabric bending and Fabric drape Test
- Fabric abrasion resistance test
- Fabric air permeability test
- Fabric water permeability test
- Measurement of fabric tear resistance and measurement of yarn diameter with microscope
- Measurement of fabric strength with CRE method
- Sewing yarn, loop and knot strength
- Seam slippage test
- Textiles compressibility
- Evaluation methods of unevenness, Introduction to USTER3 apparatus and Analysis of yarn unevenness and defects and comparison with standard tables
- Evaluation of sliver unevenness and analysis of the spectrogram
- Additional topics
- Final exam

Reading Resources:

- Principle and theory physical testing fiber yarn and fabric
- Principle of Textile Testing
- Physical Testing of Textiles
- ASTM standard book