

(Textile Engineering Department)

Undergraduate

Course Title: Technology of Clothing Manufacture I

Prerequisite: Clothing Construction/

Number of Credits: 2

Lecturer: Dr. Fateme Mousazadegan

Course Topics:

- Fabric spreading process and its requirement- Important point that should be considered in fabric spreading - Various spreading- Fabric spreading for multi orders in a step.
- Using marker on the fabric layers and cutting process, various manual cutting equipment, automatic cutting machine and its different parts, effective parameters on the cutting accuracy, quality control of cut pieces, counting and labeling
- Various methods to remove fabric faults before cutting according to the fault shape and position, different methods of fabric spreading and related equipment, manual fabric spreading and its equipment
- The semi-automatic fabric spreading and related carriage, the automatic fabric spreading, various parts of automatic fabric spreading machine, controlling various parameters of fabric spreading, stripe and check fabric spreading by pin table
- Effective factors on quality of sewn fabrics, seam types ,structure and application,
- stitch types structure, characteristics and application
- Introducing sewing machine and its various parts, fabric feeding mechanisms and their applications
- Needle and its structure, needle making process, various needles and their applications
- Thread tension devices in sewing machine and thread feeding ,Various motor used in sewing machines, various presser foots and their application
- Different sewing machines according to the structure and their application, sewing accessories, automation in sewing machines its advantages and disadvantages
- Sewing threads, sewing thread types, sewing thread properties, sewing thread packages, sewing thread manufacturing process, various sewing thread structure
- Seams properties and effective factors, their influence on the clothing performance
- Sewing quality problems, reasons and preventing methods, thermal and mechanical needle damages
- Seam puckering phenomenon the formation and prevention
- Clothing assembly process, material handling in a factory
- Effect of sewing process on the clothing properties and performance

Reading Resources:

- Joining Textiles, Principles and Applications, I. Jones and G.K. Stylios, Woodhead Publishing Ltd, 2013
- Industrial cutting of textile materials-Woodhead Publishing (2012)