

(Textile Engineering Department)

Undergraduate

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**Course Title: Clothing Construction**

**Prerequisite:** Fundamentals of Clothing Design

**Number of Credits: 2**

**Lecturer: Dr. Fateme Mousazadegan**

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**Course Topics:**

- Comparison of traditional and industrial clothing manufacturing- The Aims of wearing cloth and its related applications- Clothing quality index- Various clothing based on fashion level
  - Clothing design methods and their advantages and disadvantages- Ready to wear cloth and importance of their production- Required Sources for pattern making- Sizing systems and its preparation stages- Control dimensions and their variation range- Size intervals- Determining the number of sizing groups- Calculation of Secondary dimensions- Size labeling- Body type or shape
  - Body measurement methods- Direct Measurement of individuals body and determination of landmarks- Body measurement by 3D scanner and its advantages and limitations- Body Longitudinal and transverse dimensions
  - Dividing body based on the body main lines and pattern developments- Drawing a body block
  - Main lines in sleeve- Developments of sleeve - Drawing one piece and two pieces sleeves
  - Relation of clothing material and its ease- Different ease in a cloth- Stretch and non-stretch fabrics and their cloth ease variation- Collar components and its drawing
  - Introduction of body main lined for trouser drawing- Trouser pattern making
  - Introduction of body main lines for dividing coat components- Coat pattern making
  - Facing and its characteristics- Seam allowance and its importance in pattern making- Coats collar and facing drawing
  - Lining and its application in cloth- Coats lining drawing and seam allowance insertion
  - Grading- Various grading methods and its advantages and limitation
  - Pattern grading practically
  - Pattern placement on the fabric- Effective factors on the pattern placement
  - Calculation of marker making- Determination of the number of cloth in each marker- Fabric utilizing for each clothing
  - Matching in patterns- Marker making methods- Matching in stripe and check fabrics for large and small pieces
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**Reading Resources:**

- Anthropometry apparel sizing and design, D. Gupta and N. Zakaria, WoodHead Publishing, 2014
- Clothing appearance and fir: Science and technology, J. Fan, W. Yu and L. Hunter, WoodHead Publishing, 2004

- Metric Pattern Cutting for Menswear, W. Aldrich, Blackwell Publishing, 2003
- Sizing in Clothing, Developing effective sizing systems for ready to wear clothing, S.P. Ashdown, WoodHead Publishing, 2007