

AIMS

To be able to develop knowledge, skill and attitude in the field of garments manufacturing with special emphasis on:

- fabric spreading and fabric spreading machine
- fabric cutting and fabric cutting machine
- fabric splice, stitches and seam.

SHORT DESCRIPTION

Fabric spreading; Fabric spreading machines; Fabric splice; Fabric cutting; Fabric cutting machine; Stitches and seam.

DETAIL DESCRIPTION**Theory:**

1. **Understand the fabric spreading.**
 1. Define fabric spreading.
 2. Mention the requirements of fabric spreading.
 3. Describe the methods of fabric spreading.
 4. List the types of fabric lays.
 5. Describe each type of fabric lays.
 6. List the types of fabric packages.
 7. Describe each type of fabric package.
2. **Understand the fabric spreading machines.**
 1. Mention the classification of fabric spreading machine.
 2. Describe the manual method of fabric spreading.
 3. Describe the feature of semi-automatic fabric spreading machine.
 4. Describe the feature of fully automatic fabric spreading machine.
3. **Understand the fabric splice.**
 1. Define splice.
 2. Causes of splicing.
 3. List the types of splice.
 4. Describe different types of splice.
4. **Understand the fabric cutting.**
 1. Define fabric cutting.
 2. Mention the requirements of fabric cutting.
 3. Describe the methods of fabric cutting.

5. Understand the fabric cutting machines.

1. Mention the names of manual cutting machine.
2. Mention the names of computerized cutting machine.
3. Describe the round knife & straight knife cutting machine.
4. Describe advantages and disadvantages of bent-knife cutting machine.
5. Describe the features of Die cutting & drill machine.
6. Describe computerized fabric cutting (CAM) machine.
7. Describe water jet cutting machine.
8. Describe laser cutting machine.
9. Describe plasma torch cutting machine.

6. Understand the sewing threads.

1. Define sewing threads.
2. List different types of sewing threads.
3. Describe the process of cotton sewing thread.
4. Describe the of features TC sewing thread.
5. Describe the features of polyester sewing thread.

7. Understand the stitches.

1. Define stitches.
2. Mention the classification of stitches.
3. Describe the principle of lock stitch formation.
4. Define chain stitch.
5. Describe the principle of chain stitch formation.
6. Describe the advantages and disadvantages of lock stitch formation.
7. Describe the advantages and disadvantages of chain stitch formation.
8. Describe the principle of multi-thread chain stitch formation.

8. Understand the sewing machine.

1. Define sewing machine.
2. List different types of sewing machine.
3. Describe each types of sewing machine.
4. List different components of general sewing machine.
5. Describe the function of different components of general sewing machine.
6. Working aids of sewing machine.

Practical:

1. Draw the diagrams of different types of fabric lays.
2. Draw the diagrams of fabric cutting machines and level important parts.
3. Practice on cutting out garments components from the fabrics with the help of straight & bent knife cutting machine.
4. Produce stitches on fabric with varying stitch density in straight line, curve line, circle line & rectangle line.
5. Produce chain stitch, lockstitch & overlock stitch on single layer & multilayer fabric.
6. Produce different types of seams with lock stitch & chain stitch.
7. At least two running garments factory visit.