

# UNIT - 1

The student should make a scrap book (i.e. a 200 Pages Plain Paper Book). The Assignments 1, 2, should be done in this notebook.

## Assignment No. 1

The basic raw material used by the textile industry for making a fabric is Fiber . Many different kinds of fibers are used for making a Yarn. The strands of fibers are twisted or spun together to form a Yarn that is made into a Fabric.

The characteristic of the fabric changes depending in the fiber used for making a fabric. The fabrics made from different fibers have different feel, look, comfort, texture, physical and chemical properties.

**Objective:** To understand the different materials (Fiber Types) used to make a fabric and study its characteristics

### Method:

1. The student should go to a cloth shop, tailor or mall in the neighborhood and collect the following swatches.
2. Cut these swatches into 5"x 5" pieces and stick them in the scrap books
3. The swatches to be collected are:

a. Silk	b. Cotton	c. Jute
d. Polyester	e. Wool	f. Linen
g. Non-woven Fabric	h. Viscose	i. Acrylic
j. Modal		
4. Classify these swatches and write about their look (Dull, Bright, rough, etc.), texture (rough, smooth, etc.) and find out 1 to 2 physical and chemical properties.

**Outcome:** The students will understand the different quality of fabrics and will be able to identify them.



## Assignment No. 2

Weaving is done on a machine called loom. There are many types of looms as studied in chapter 3 of Unit I. The loom is classified on the basis of method of insertion of weft.

**Objective:** To study and understand the different types of looms.

**Method:**

1. Group of 5-6 students should take up one type of loom (Ex, Handloom, Rapier, Airjet, etc.)
2. Each group should then study and discuss the loom type in detail to understand its
  - a. Brief History
  - b. Working and Technology
  - c. Usage and Application
  - d. Advantages
  - e. Disadvantages
  - f. And any other point (if there)
3. The Group should then make a 10-15 slide power point presentation and present to the whole class

**Outcome:** All the students will understand the different types of looms available for fabric manufacturing.