

Title: Blending of milk weed floss with silk and lyocell fibres for production of green fabrics and weave designing.

Objectives:

1. To study physico-chemical properties of milk weed (*Calotropis species*), lyocell and mulberry silk fibers and preparation of their blends indifferent ratios.
2. To prepare the pure yarns of lyocell and mulberry silk and blended yarns of milkweed, loycell fibers and milkweed: mulberry silk fibers and evaluation of their physical properties
3. To construct the pure and blended fabrics on handloom and evaluation of their physical properties
4. To design different weaves y using weaving software.

Technology developed:

- Blending of milkweed fibers with mulberry silk and lyocell fibers (each) was done.
- Pure and blended yarns and fabrics of selected materials, suitable for apparel purposes were made
- Variety of weaves were created using weave and drape software for the weaving of designed fabrics.

Developed products with union fabrics of milk, silk and lyocell

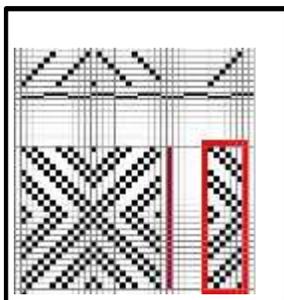
Milkweed Plant



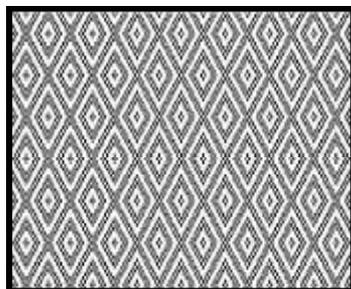
Fibre Pod



Weave Design No.1



Lifting plant



Drafting Plan



Weave Repeat: 24x24

Fabric simulation: Black and white

Fabric simulation: Coloured

Draped Effect of Woven Fabric (Sari)

