



“बेटी बचाओ, बेटी पढ़ाओ”

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(Format for Preparing E Notes)

Faculty of FEM

Faculty Name- **JV'n Daksha I (Assistant Professor)**
Program- M.Sc. Fashion Designing 1st Semester
Course Name - Advance knitting technique's
Session No. & Name – 2023-2024

Academic Day starts with –

- Greeting with saying ‘**Namaste**’ by joining Hands together following by 2-3 Minutes
Happy session, Celebrating birthday of any student of respective class and **National Anthem**.

Lecture Starts with-

Review of the previous lecture- –Types of weft knitting fabrics

Topic to be discussed today- Weft and warp knitted fabrics.

Introduction & Brief Discussion about the Topic

University Library Reference-

- E-notes, handmade notes.
- E- Journal
- Online Reference if Any.
- Suggestions to secure good marks to answer in exam-
- Explain answer with key point answers

- Questions to check understanding level of students-
- Small Discussion About Next Topic-
- Academic Day ends with-
National song 'VandeMataram.'

Types of warp or weft knitted fabrics

There are basically two types of yarn formation i.e. warp or weft and different types of fabrics is produces by using this technique-

Jersey is a knit fabric that is commonly used in clothing. In the past, most jersey fabric was made with wool, but it's now more common to find cotton and synthetic jersey garments. While many athletic jerseys are made with jersey fabric.

Single Jersey Fabric Properties

- The front and back sides are different from each other.
- Very breathable, Feels soft and light.
- Stretchy, and easy to wear.
- Sweat doesn't stay locked between apparel and the skin.
- Easy to iron, and it is relatively crease-resistant
- Has a curling tendency.
- Wider widths are obtained in a single jersey fabric.
- Stretches approximately the same transversely and longitudinally.
- Less patterning possibilities than in other knits.
- Least amount of yarn used per unit area in production.
- When cut, curls occur from the sides towards the back of the fabric and from the front and back towards the front of the fabric.
- Has less tendency to wrinkle.
- Yarn, or course, are unaltered from the start and end of knitting.
- Has good extensibility in length and width in both directions.
- Width-wise stretchability is usually much higher than length-wise stretchability.
- The fabric shrinks 3-5%%. in width.

- Fabric thickness is 2X the diameter of the yarn used.
- Fabric production is higher.
- Less expensive

Uses

Single jersey fabric is mostly used. Characterized by its considerable stretchiness and close knit, jersey is a popular fabric for underwear for T-shirts, Tank tops, leggings, and Polo shirt manufacturing, and other types of garments that you wear close to your skin. Since it is lightweight, jersey is not remarkably durable or insulative, but it is ideal as a base layer worn beneath thicker and more durable clothing.

Jersey fabric is most commonly used to make t-shirts, but it can also be used to make sportswear, sweatpants and sweatshirts, underwear, and bedding and sheets²³⁴. Some of the most popular items made from jerseys include T-shirts and tank tops, sweats, bedsheets, underwear, sportswear, and athleisure.

Double jersey fabric

Double jersey fabric (also called interlock jersey fabric) is a knitted fabric also known as double knit or double-layer knit fabric. It's a stable, lightweight material that's easy to sew with because it doesn't roll. It can be used for a variety of clothing styles and is reversible because of its double-sided construction.

Due to the interlocking design, it's easier to work with. The material is heavier but also has a stretchy quality. The make-up of this sturdy material makes it desirable to use across the textile industry.

Double jersey knit fabric can be used in different types of clothing. It is often more comfortable and the knitting makes it more resistant to wear, offering longevity as a part of any wardrobe. Depending on the blend, it can be used for sports, casual clothing, loungewear or winter outfits. It's also popularly used for children's clothing.

Uses of double jersey fabrics

As mentioned above, each category of double jersey knit fabric has its benefits and features making it ideal for different projects. It is durable and stretchy, which are ideal traits for sewing. They are wrinkle-resistant and can be worn repeatedly due to the durability of the material. The top usage is clothing.

It can be used for gym clothing and yoga wear because of its moisture-wicking capabilities. For this, you would best choose the synthetic double knit. Its stretching and air permeability makes it comfortable to wear while moving and sweating.

For cooler weather, brushed jersey knit offers comfort and warmth. It's soft to the touch and is heavier. It is double sided, offering a thick covering during cold weather conditions. This can be used for jackets, thermal underwear, and tops. It can also be used in general clothing sewing because the features still offer comfort, durability, softness and stretch.

Jacquard fabric

Jacquard fabric is a type of fabric woven on a **Jacquard loom**, which was invented by the French textile artisan Joseph Marie Jacquard in 1804¹. Here are the key details about jacquard fabric:

1. Definition and Characteristics:

- Jacquard fabric features **complex patterns woven directly into the fabric**. These intricate designs are an integral part of the fabric itself.
- It is often associated with ornamental properties, durability, and weightiness.
- The fabric can be made from **natural or synthetic fibers**, interwoven to create these intricate patterns.
- Jacquard fabrics can have a thread count varying between 100 and 300¹.
- Its breathability and moisture-wicking abilities depend on the specific fibers used.
- Heat retention is moderate, making it suitable for various climates.

Applications:

- Jacquard fabric is commonly used in:
 - **Formal Apparel:** Evening wear, men's suits, dresses, and costumes.
 - **Homewares:** Drapes, duvet covers, upholstery, curtains, tablecloths, tapestries, coverlets, and pillow shams.

Properties:

This material can be made from fibers of different chemical composition, look completely different and feel to the touch too, but it still has general characteristics.

- magnificent aesthetic appearance regardless of the type of manufacture, richness of forms, variety of textures and colors;
- pleasant to the touch;
- long service life due to high density;
- ability to maintain shape for a long period of time;
- practically does not wrinkle, is easily smoothed;
- if made of natural fibers or with a small amount of synthetic fibers, jacquard absorbs moisture well and is comfortable to use;
- does not cause allergies;
- jacquard does not require special care conditions

Cons of jacquard

- along with high wear resistance, high density of jacquard contributes to the deterioration of air permeability;
- the rather high cost of jacquard products makes it not affordable for everyone;
- some types of designer items require special care conditions, only dry cleaning is possible;