

## Introduction

Established in 2010, the department of Knitting is an independent department that focuses its activities on the training of fabric engineers. Every effort is being made to equip students with ample knowledge of knitting techniques. The teaching activities are carried out by well-qualified and dedicated faculty members having industrial experience. Students are given extensive practical training to augment their theoretical knowledge. Regular industrial visits familiarize the students with the industrial environment. Department of Knitting also provides testing and consultancy services to industry in addition to the normal teaching assignment. Research and development projects are also carried out for different sectors of textile industry. Interloop Hosiery, Masood Textile Mills, Style Textiles, Kay & Emms, Kalash and Kamal Hosiery are few to mention who are our strength as industry collaborators.

### Major Apparatus & Equipment

Compression Knitting Machine  
 Flat Bed Jacquard Knitting Machine (E7+E14)  
 Interlock Knitting Machine Dia 26"  
 Rib Machine Dia 20"  
 Jacquard Single Jersey Dia 26"  
 Single Jersey Dia 30"  
 Socks Knitting Double Cylinder Dia 4"  
 Sample Knitting (E20)  
 Circular Braiding Machine (Flat + Circular)  
 Hand Flat Knitting Machine (E7 + E12)  
 Hi-Speed Warping Machine  
 Socks Knitting Single Cylinder Dia 4"  
 Gloves Knitting Machine (Terry Gloves + Simple Gloves)  
 Warp Knitting Machine E28

### Research Areas

- > Knit Fabric Structures and Design
- > Machine Modifications
- > Knitted Gloves
- > Socks
- > Protective Textiles
- > Composites
- > Warp Knitting

### Software

- > CC4II Programming Module (Compression Knitting Machine)
- > Starfish
- > WISETEX
- > Computer Aided Design (CAD)
- > APEX III

# Department of KNITTING



## National Textile University





## Faculty Training

A five days training was arranged by Al-muratza for faculty and staff of Knitting Department of National Textile University at its Lahore office. The training was scheduled for programming of Shima flat whole garments knitting machine. Complete garment knitting is a next-generation form of fully fashioned knitting that adds the capability of making a 3-dimensional full garment. Training was given on latest designing and programming module of Shima i.e. APEX-III. SHIMA SEIKI has developed the 3D design system SDS-ONE APEX series incorporating software specialized in textile design and simulation such as flat knitting, weaving, printing, and circular knitting, etc.

Two week training of staff was also conducted in Chaudhary Industries, Faisalabad. Mr. Muhammad Atif and Mr. Tariq Mahmood participated in this training.



Department of knitting added a SHIMA SEIKI terry gloves knitting machine in its lab facilities

Department of knitting recently added a SHIMA SEIKI terry gloves knitting machine in its lab facilities. It has 13 gauge and equipped with two extra color yarn carrier capable of producing color stripes. This machine is capable of producing fine quality gloves using different types of conventional and high performance materials. Terry gloves are used in higher abrasion applications, light heat applications, good heat-absorbing material and these gloves are great at handling rough, sharp metal parts.



## High speed warping donated from Chaudhary Industries

Department of knitting recently added a new high speed warping for warp knitting machine in its lab facilities which was donated by Chaudhary Industries. It has creel capacity of 200 cones and beam that can be loaded on it is 12". This machine is capable of making warp knitting beam with high speed. Both natural and synthetic yarns can be run on it to make beam.



## Newly installed Terry Gloves Machine



## Welcome Fresh Entrance Batch 2019 Congratulations on your admittance to the National Textile University!

NTU Orientation program has been conducted to welcome the new students on Sunday September 22, 2019 by Office of Students Advisor and respective departments. Orientation serves as the first step in a new student's transition to University life, University-level services, programs, and resources.

Knitting faculty welcomed 40 students of E-Section (knitting) Batch-2019 and also arranged Introductory presentation in Knitting IT Lab for new students.



### Ms. Hifza Khalid

Department of Knitting warmly welcomed to newly appointed Ms. Hifza Khalid as a Lecturer in Knitting Department.

## Interviews for the General Body of Society of Textile Knitters 2019-20 was conducted on 9<sup>th</sup> October, 2019 in Knitting Department



## Research Areas

### RESEARCH POSSIBILITIES

#### Conventional products

- Single jersey products
- Double jersey products
- Flat-bed products

#### Compression Products

- Compression Bandages
- Compression Sleeves
- Compression Belt
- Knee Pads
- Wrist Bands

#### Smart Garments

- Electrically heated garments
- Summer functional clothing

#### Functional garments

- Summer functional clothing
- Vibration therapy products
- Smart gloves for warden
- Functional socks

#### Protective Textiles

- Cut resistant gloves & clothing

#### Fire retardant products

- Fire retardant clothing
- Anti static clothing's

#### Knitted Composites

- Uni-directional composites
- Natural fiber reinforced composites
- Honey comb structures

**For  
Suggestions  
and Feedback**

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