



# DEPARTMENT OF KNITTING

## NATIONAL TEXTILE UNIVERSITY, FAISALABAD



### 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 and Klash are few to mention who are our strength as industry collaborators.



#### Major Apparatus & Equipment

- ❖ Interlock Knitting machine Dia 26"
- ❖ Rib Machine Dia 20"
- ❖ Jacquard Single Jersey Dia 26"
- ❖ Single Jersey Dia 30"
- ❖ Socks Knitting Double Cylinder 72" width
- ❖ Sample Knitting (E20)
- ❖ Braiding Machine
- ❖ Hand Flat Knitting Machine (E7)
- ❖ Hand Flat Knitting (E12)
- ❖ Socks Knitting Single Cylinder Dia 4"



#### Research Areas

- ❖ Knit fabric structures and designs
- ❖ Machine modifications
- ❖ Knitted Gloves
- ❖ Socks
- ❖ Functional Textiles
- ❖ Composites

#### Software

- ❖ Star Fish
- ❖ Compression Hosiery Knitting Machine recently installed in NTU by German Engineer in September, 2018

A training workshop on “HEC Revised Assessment Criteria for University Ranking” held in NTU. All Knitting faculty attended this training session.

### Memorandum of Understanding(MoU) between Department of Knitting and ABNA Gloves

CEO ABNA Gloves (Manufacturers and Exporters of Quality Gloves Faisalabad) **Mr. Nadeem Ahmad** visited National Textile University. During his visit he meet with **Dr. Tanveer** (Rector NTU) along with **Dr. Hafsa Jamshaid** (HOD Knitting) and knitting faculty to discuss some potential projects on gloves. Followed by this an **MoU** is signed between department of Knitting and ABNA GLOVES on 16<sup>th</sup> July, 2018. It was mutually decided to start working on functional gloves.



### MOU signed between Knitting department and Al-Karam Textile Mills

After a successful visit of Mr. Anees (Head of R&D) from Al-Karam Textile Mills at NTU and later visit of Mr. Jamal Akbar from department of knitting at Al-Karam Textile Mills decided to work on different projects from the Al-Karam Textile Mills for the benefits of the both. An MoU signed between National Textile University and Alkaram Textile Mills on 06<sup>th</sup> August, 2018.



### MOU Signing ceremony between Knitting department NTU and Kay & Emms

MoU Signing ceremony between Knitting NTU and Kay & Emms was held on 13th Sep, 2018. MoU signed by Prof. Dr. Tanveer Hussain, Rector National Textile University and Mr. Sardar M Dhillon, Sr. GM Operations Kay & Emms (Pvt.) Ltd. The mutually decided objectives related to research & development, services, and internships opportunities were covered under this MOU



### Dr. Hafsa Jamshaid, participated in "91st Textile Institute world conference"

The 91st Textile Institute World Conference (TIWC) 2018, which was hosted by the School of Design at the University of Leeds from July 23 - July 26. Dr. Hafsa Jamshaid presented her collaborated work with Uzair Hussain of title “Optimization of fire resistant and comfort properties of knitted fabrics”. The conference theme “Integrating Design with Sustainable Technology” is focused on identifying and establishing interdisciplinary engagement in the textile manufacturing and retail industry through the various fields of technology, design, sustainability, research and economy. During this conference Fellowship Certificate was awarded to Dr. Hafsa Jamshaid



### Dr. Hafsa Presentation in "TBIS 2018" at Manchester, UK.

Dr. Hafsa Jamshiad presented her collaborated work with Rajesh Mishra and Jiri Militky of title "Characteristics of woven Basalt and hybrid structures as composite reinforcement" in TBIS-2018 which was held at University of Manchester, UK, from 25-28 July. The Textile Bioengineering and Informatics Society (TBIS) is a charitable organization created to foster, develop and promote all aspects of science and technology in the bioengineering of materials, fibers and textiles, and to study how fibers, textiles and clothing influence human biology, medicine, behavior and health, as well as human living environments



### Paid Internship of Knitting Student at IKEA.

First time in the National Textile University, a student of Knitting Department Aimen Syed of 3<sup>rd</sup> Year has started her paid Summer Internship of 25000/month at IKEA Karachi, which is a well-known multi-national group that designs and sell ready to assemble home accessories, clothing and many other things. This is also very good opportunity for other students to be a part of this organization in future and this summer internship would be source of inspiration for other students.



In order to strengthen faculty and staff's technical skills. Following faculty and staff from department of Knitting nominated to do internship / training in different esteemed organizations for two weeks in August, 2018.

- ❖ Mr. Jamal Akbar, Lecturer
- ❖ Mr. Zeeshan Azam, Lecturer
- ❖ Ms Norina Asfand, Lecturer
- ❖ Mr. Usman Ahmad, Lab Engineer
- ❖ Mr. Muhammad Atif, Senior Technician

An open Day arranged by Faculty of Engineering and Technology, NTU on 8<sup>th</sup> August, 2018 at NTU. Students from Knitting Department participated in this event and displayed their project.



Viva Voce of final year projects (Spring-2018) conducted by Knitting Department on 8<sup>th</sup> August, 2018. Mr. Adeel Tahir, GM Interloop and Mr. Shahid Siddique, GM Knitting, Masood Textile Mills, participated as External Examiners.

**Dr. Hafsa Jamshaid, Chairperson, Department of Knitting given interview to daily newspaper Zahir regarding her certificate "Fellow of the Textile Institute" awarded by The Textile Institute, UK**



### **Training in MERZ, GERMANY. On compression Knitting machine for medical stockings**

Mr. Zeeshan Azam, Lecturer department of Knitting went to Germany for training to produce medical stockings on compression knitting machine. Compression knitting machine was purchased by NTU from Merz, Germany which is known manufacturer of compression hosiery machines. He was trained for below subjects:

- General guidelines about medical products
- Testing of medical stockings
- Programmation

**MERZ**

### **CERTIFICATE**

We herewith have pleasure in confirming that

**Mr. ZEESHAN AZAM of NTU**

has been thoroughly trained at our works in the operation of the CC4 II machine  
from: 27.08.2018 until and incl. 31.08.2018

The training comprised the following subjects:

- mechanical adjustments on the machine
- handling of the machine
- programmation of knitting programs on the PC
- transfer of such knitting programs to the machine and vice versa
- fine tuning of knitting programs when working with the machine
- general guidelines of how to develop medical compression stockings

After termination of this training Mr. ZEESHAN AZAM of NTU  
is able to operate our CC4 II machine on his own.

Hohlinger, 31.08.2018

Merz Maschinenfabrik GmbH

  
H.-U. Keck  
CEO



### **2-Day Faculty & Staff Training with Mr. Anton Beck on Compression Knitting Machine**

Department of knitting arranged a 2-Day training on newly installed knitting machine for production of medical stockings. Mr. Anton Beck from Merz Maschinenfabrik GmbH, Germany installed the machine and give training. He gives training about Machine and its programation. Following this later compression stocking were produced using different types of yarns and by varying different machine parameters. It will helpful for both staff and faculty in future for research purpose on medical stockings.



## Collaboration between NTU & Technical University of Liberec for faculty & students exchange

Dr. Hafsa Jamshaid visited Technical University of Liberec and meet professor Jiří Militký for mutual collaboration on research and exchange program. Both were agreed to initially start with faculty exchange and later NTU students can also go to TUL for research and higher education purpose.



## Welcome Fresh Entrance Batch 2018 Congratulations on your admittance to the National Textile University!

NTU Orientation program has been conducted to welcome the new students on Sunday September 23, 2018 by Office of Students Affairs 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-2018 and also arranged Introductory presentation in Knitting IT Lab for new students.



## Workshop for students with Mr. Anton Beck on Compression Knitting Machine

Society of Textile Knitters had arranged a workshop for their final year students on newly installed knitting machine for production of medical stockings on Sept 23, 2018, Sunday. Mr. Anton Beck from Merz Maschinenfabrik GmbH, Germany teach students about compression stocking and knitting machine.



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For suggestions and feedback

For any query please contact

### Engr. Dr. Hafsa Jamshid

C Text FTI (Fellow of Textile Institute, UK)

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