



NATIONAL TEXTILE UNIVERSITY FAISALABAD



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NEWSLETTER

NTU is the Pioneer Institute of Textile Education
in Pakistan, Serving the Industry

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UpComing

DICE Foundation
Innovation
EVENT
6th-7th March, 2019



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New Machines



Jacquard Sampling Loom



Dobby Sampling Loom



Mini Luten Sectional Warping



Single-end-Sizing Machine



Compression Knitting Machine



UV-2000F (UV Trans Analyzer)



Industrial Funded Projects

Sr.#	Title	Industry	Principal Investigator
1	Design and Development of Soft Armour Panels	iTextiles	Dr. Yasir Nawab
2	Development of Bullet Proof Jacket	iTextiles	Dr. Yasir Nawab
3	Development of Nonwoven Fabric	Gul Ahmad	Dr. Abdul Jabbar
4	Development of Automotive Parts	Alcon	Dr. Yasir Nawab
5	Development of Military Helmets	Servis Industries	Dr. Yasir Nawab
6	Development of Water Repellent, Breathable Nanowebs for Footwear	Servis Industries	Dr. Ahsan Nazir
7	Development of Nonwoven Coated Tents	Shamsi Enterprise	Dr. Abdul Jabbar
8	Development of Ballistic Panels	T.M. Rubber	Dr. Yasir Nawab
9	Development of Khaki Uniform for Pak Army	Pak Army	Dr. Zulfiqar Ali
10	Development of Regenerated Fiber Blends with Improved Comfort Properties	iTextiles	Dr. Bilal Qadir
11	Development of Sustainable Sheeting Fabric	Gohar Industries	Dr. Zulfiqar Ali
12	Characterization of Softness of Different Home Textile Products	Sitara Industries	Dr. Zulfiqar Ali
13	Adressing High Shrinkage Problem in Panama Woven Fabrics	Sitara Industries	Dr. Zulfiqar Ali
14	Development of Ring Dyeing Effect in Yarn with Sulphur Dyes	CBL	Dr. Ahsan Nazir
15	Development of Needle Punched Nonwoven with Improved Washing Durability	Mubashir Corp	Dr. Ahsan Nazir
16	Development of Highly Absorbent Non-Lint Wipe for Medical Applications	Mubashir Corp	Dr. Ahsan Nazir



Key Research Facilities/Labs at NTU

SPINNING LAB

Toyoda Ohara Hergeth Blow Room	Howa CM 80 Card	Platts Card	NCTE Mini Card	Flat Clipping Machine
Toyoda Ohara Draw Frame	Platts Draw Frame	Platts Lap Former	Platts Comber	Comber Toyoda Hara CM-100
Rieter RSB D 40 Draw Frame	Compact Ring Frame K-44	Toyoda Simplex FL 16	Platts Simplex MS 2	Howa Ring UA-330 G
Toyoda Ring RY-5	Pakistani Ring RB-18	Platts Ring MR-3	Edera Mini-Ring	Laycock Textile (Spinner)
Peter Wolters Cots Grinding	Schlafhorst Auto Coro	Auto Coro Rotor Spinning	Murata Link Coner with Splicer	Murata Mach Cone with knotter
Bedford Mini Rotor Spinning				Sanco Compressor

WEAVING LAB

Shuttle Loom, Dobby Northrop	Shuttle Loom, Jacquard Northrop	Narrow Needle Loom	Air Jet Dobby, Picanol Omni Plus
Air Jet Tappet, Toyota 600	Knotting machines	Rapier Loom, Dobby	Semi-Automatic Looms
	Electronic Jacquard Rapier Loom (CCI)	Mini Luten Sectional Waring Machine (CCI)	Single End Sizing Machine (CCI)
Carbon Weaving Loom (NTU)	Shuttle Loom, Dobby Butterworth	Projectile Loom Tappet, Sulzer P-7100	

KNITTING LAB

Interlock Knitting Machine Diameter 26"	Rib Machine Diameter 20"	Machine Jacquard Single Jersey Dia 26"	
Single Jersey Diameter 30"	Socks Knitting Double Cylinder 72" Width	Sample Knitting Gauge 20	Braiding Machine
Hand Flat Knitting Gauge 7	Hand Flat Knitting Gauge 12	Socks knitting Single Cylinder Diameter 4"	Compression Knitting Machine
Single Feeder Sample Knitting Machine	Gloves Knitting	Flat Knitting Computerized Jacquard	

PROCESSING LAB

Jigger Wider Width	Jigger Smaller Width	Low Pressure Jigger (Lab Scale)	High Pressure Jigger	Steamer
Roller Printing	Padder (Warner Mathis)	Multi Cone Dyeing	Single Cone Dyeing	Star Steamer
Winch	Hydro Extractor	Air Compressor	Folding	Cylinder Drying with Padder
Mini Jet	Continuous Pad Steamer	Pad Thermosole	Heat Setting	Rotary Printing
Flat Bed Printing	Laundro Meter	H. T. Dyeing	Padder	Pin Tenter Frame
Universal Calendar	Refrigerator	Fadometer	Auto Crock	High Speed Stirrer
Rubbing Tester for 6 Samples	Coating Machine	View Logic (Day Light Cabinet)	Sewing Machine	Ball Mill Grinder
Wrapping Reel	Oven (Large)	Oven (Lab)	Micro Wave	Kuster Padder
Daylight Cabinet	Color Difference Measuring	Crock meter (Manual)	Friction Tester	Sound Level Meter
Thickness Tester	Perspiration Tester	Iron Meter	Refracto Meter	pH Meter
Water Spray Tester	Weighing Balance (04 Digits)	Weighing Balance (03 Digits)	TDS Meter	Hot Plate
Magnetic Stirrer	Microscope	Sample Cutter Machine	Digital Thermometer	Viscometer (Tokimec)
Wrinkle Recovery Tester	Water Distillation Plant (Steel)	Spectrophotometer	Air Compressor Universal	Electric Water Bath

GARMENTS MANUFACTURING LAB

Lock Stitch Machine (DDL - 8700-7)	Lock Stitch Machine (DDL - 8500)	Plotter (INFINITY)
Lock Stitch Machine (DDL - 8300N)	Safety Stitch Machine (M732-48P2)	Lock Stitch Machine (Fy8700)
Over Lock Machine (M752-13)	Over Lock Machine (M752-01)	Digitizer (A1105H)
Interlock Machine (W664-01GB)	Interlock Machine (W664-03FB)	Tape Cutting Machine (LU-933)
	Interlock Machine (W562-01GB)	Steam Iron (ES-300L)
		Washing Machine (DW-6500)



Key Research Facilities/Labs at NTU

Interlock Machine (W1562-05B)	Chain Stitch Machine (DFB-1412PL)	Chain Stitch Machine (DFB1402MR)
Blind Stitch Machine (BS - 101H)	Cloth Cutting Machine (8") (KS - AUV)	CAD System 1 pc (CPU, Monitor, 2-Speaker)
Button Hole Machine (LBH-1790)	Vacuum Ironing Table (FBA-Y-6512)	Vacuum Ironing Table (FB600 SID)

MATERIALS AND TESTING LAB

Fibro Graph	Fineness Tester	Pressley & Stelo meter	Shirley Analyzer	Yarn Testing
Wrapping Reel	Auto Sorter	Twist Tester	Lea Strength Tester	Tensorapid
Hairiness Tester	Classimate-II	Tensile Strength Tester	Elmendorf's Tear Tester	Universal Abrasion Tester
I.C.I Pilling Box Tester	Abrasion Tester (Martindale)	Cloth Density Tester	Stiffness Tester	Crease Recovery Tester
Circular Cutter for G.S.M	Hygrometer	Moisture Meter	Microscopes	Sample Dryer

POLYMER ENGINEERING LAB

Overhead Stirrer	Ph Meter	Oven	Furnace	Water Distillation Plant
Waterbath	Film Applicator	Fourier Transform Infrared Spectroscopy (FTIR) With ATR		Rheometer
Differential Scanning Calorimetry (DSC)		Gel Permeation Chromatography (GPC)		Melt Flow Index (MFI) Apparatus
Melting Point Apparatus	Shell & Tube Heat Exchanger	Plate & Frame Heat Exchanger	Flow Meter Demonstration Apparatus	
Air Tray Dryer	Batch Distillation Column	Gaseous Diffusion Apparatus	Electromagnetic Sieve Shaker	Benchtop Cooling Tower
Injection Molding Machine (Automatic)		Compression Molding (Manual)	Blow Molding (Manual)	Injection Molding (Manual)
Single Screw Extruder for Compounding/Recycling		Blow Molding Machine (Automatic)		Temperature Process Station
Thermocouple Calibration Apparatus		Flow Process Station	Level Process Station	Dead Weight Tester
Time Constant Calculation Apparatus		Pressure Gauges Calibration Apparatus		Pressure Process Station

SPECTROSCOPY & MATERIALS CHARACTERIZATION LAB

FTIR	Zeta Sizer	UV-Visible-NIR Spectrophotometer	UV-Visible Spectrophotometer
Energy Dispersive X-Ray Spectroscopy		Scanning Electron Microscopy SEM	X-Rays Diffraction

TEXTILE PHYSICAL TESTING LAB

Universal Tensile Tester	Single Fiber Strength Tester	TPI Tester	Wrinkle Recovery angle	Tear Strength Tester
Uster Tester	Crock Meter	Random Tumble Pilling	Martindale Pilling	Bursting Strength tester

COMPOSITE FABRICATION & TESTING LAB

Resin Transfer Molding	Vacuum Bag Molding	3D Printer	Water Bath	Curing Chamber
Hot Compression Machine	Composite Polishing Machine	Work Station	CNC Profile Cutting	Ultra Sonic Tester
Drop Weight Impact Testing Machine		Hardness Tester	Fatigue Testing Machine	Universal Testing Machine
Pendulum Impact Testing Machine		Hot Compression Press	Ball Milling Machine	Diamond Cutter
Notch Maker	Optical Microscope	Guarded Hot Plate	Humidity & Temperature Chamber	

COMFORT TESTING LAB

Sweat Guard Hotplate Tester (Thermal and Water Vapor)		Permetest (Thermal and Water Vapor Permeability)	Air Permeability Tester
Fabric Touch Tester (Fabric Touch Tester)		Fabric Stiffness Tester	Moisture Management Tester (MMT)
Drying Rate Tester	Fabric Drape Tester	Static Charge Tester	Kawa bata (Bending, Compression, Surface, Shear, Thermal)



Funding and Grants

Dr. Muhammad Irfan (AP, Dept. of Materials and Testing) **has Won Startup Research Grant from HEC**

Dr. Muhammad Irfan, Assistant Professor, Department of Materials and Testing has won Start up Research Grant from Higher Education Commission, Islamabad. The title of project is "Electrospun functional membranes for antibacterial and water treatment applications".

Dr. Isma Hamid (AP, Dept. of Computer Science) **has Won Startup Research Grant from HEC**

Dr. Isma Hamid (Assistant Professor) of the Department of Computer Science has won the startup research grant from HEC for her Project titled 'Behavior Analysis of Complex Social Networks by using Visualization Technology of worth PKR 40,9000/-

Dr. Muhammad Hashim (AP, Dept. of Management Sciences) **has Won NRP Funding from HEC**

Dr. Muhammad Hashim has won Rs. 1.22 millions grant from HEC under National Research Program for Universities (NRP). The title of his project is "Supply Risk Management Model for Improving Textile Supply Reliability". Dr. Sajjad Ahmad Baig and Muhammad Zia Ur Rehman are Co-Principal Investigators of this project.

Dr. Sajjad Ahmad Baig (AP, Dept. of Management Sciences) **has Won NRP Funding from HEC**

Dr. Sajjad Ahmad Baig has won Rs. 3 millions grant from HEC under National Research Program for Universities (NRP). The title of his project is "Lean Production Capacity Building for Employees: A Cost Effective and Practical Approach for Enhancing the Export Potential of Textile Sector". Dr. Muhammad Hashim and Muhammad Zia Ur Rehman are Co-Principal Investigators of this project.

Dr. M. Shahzad Iqbal (AP, Dept. of Management Sciences) **has Won NRP Funding from HEC**

Dr. Muhammad Shahzad Iqbal has won Rs. 0.3 millions grant from HEC under National Research Program for Universities (NRP). The title of his project is "Economy Wide Impact of Energy Component of China Pakistan Economic Corridor (CPEC)". Dr. Sajjad Ahmad Baig is Co-Principal Investigator of this project.

International Conference Presentations/Exhibitions

NTU Participated in International Defence Exhibition and Seminar (IDEAS) Karachi, 2018

NTU exhibited innovative products developed in collaboration with iTextiles in International Defence Exhibition and Seminar (IDEAS) Karachi, 2018. IDEAS 2018 was held at Expo center Karachi from 27-30th November. More than 250 exhibitors from approximately 50 strategic partners and countries across the world participated in the International Defense Exhibition and Seminar (IDEAS). A team of over 10 people participated from National Centre for Composite Materials, NTU in IDEAS. NTU displayed bullet proof vest for 3 different NIJ levels, "Uniforms for armed personnel's and combat helmets". NTU take the pride of being the sole educational Institute at IDEAS that is producing indigenous bullet protection products in collaboration with industry. Bullet proof vest made from 3D comingled woven thermoplastic composite got special attention at IDEAS 2018. Delegates from Pakistan armed forces, Pakistan Aeronautical Complex and Pakistan Ordnance Factories visited the stall. NTU's products were highly appreciated by national and international delegates and meetings are in progress regarding the commercialization of developed products.



Mr. Ehsan Ali participated in World Youth Forum at Sharm EL Sheikh, Egypt

Mr. Ehsan Ali (Lecturer, Department of Design) participated in World Youth Forum 2018 at Sharm EL Sheikh in Egypt. He was selected as a sculptor artist from Pakistan. He presented his art work in the form of human heart sculpture. World Youth Forum is a platform to promote peace, prosperity, harmony, and progress to the entire world. It engages youth from around the globe in an enriching set-up, allowing them to exchange views and ideas.



Dr. Muhammad Hashim presented his research paper in ICMSEM Dept. of Management Sciences



Dr. Muhammad Hashim presented his research work in the 12th International Conference on Management Science and Engineering Management (2018 ICMSEM) held on August 1-4, 2018 in Melbourne, Australia. It is the annual conference organized and supported by the International Society of Management Science and Engineering Management (ISMSEM), Sichuan University, Monash University. The travel grant was awarded by HEC Pakistan.



Mr. Muhammad Adeel presented his research article in International Conference ICIIBMS 2018 in Bangkok, Thailand



Mr. Muhammad Adeel (Lecturer, Department of Computer Science) presented his research article in International Conference on Intelligent Informatics and Bio Medical Sciences ICIIBMS 2018 (October 21 - 24, 2018), in Bangkok, Thailand. The Conference is organized by Department of Media Information Engineering, National Institute of Technology, Okinawa College, Japan, supported by IEEE, IEEE Computer Society (IEEE CS), the IEEE CS Technical Committee on Computational Life Science (IEEE CS TCCLS), IEEE Fukuoka Section as well as the Applied Science and Computer Science Publications.

Mr. Shahbaz Ahmad presented his research article in International Conference held at Kuala Lumpur, Malaysia

Mr. Shahbaz Ahmad (Assistant Professor, Department of Computer Sciences) NTU presented his research article in International Conference 39th Asian conference on Remote Sensing (ACRS) held at Kuala Lumpur, Malaysia. It was funded by HEC Pakistan. Mr. Shahbaz is carrying out his research on GIS-Based surveillance systems and has already published a number of research papers in the impact factor journals and international refereed conference papers.



Mr. Hassan Iftekhhar presented his research at Sheffield Hallam University, UK in Auxetics 2018



Mr. Hasan Iftekhhar (Lecturer, Department of Weaving) presented his research titled "Effect of binding yarn float length on Poisson's ratio" in 9th International Conference and 14th International workshop on Auxetics and Related Systems with "Negative" Characteristics. The conference was held at Sheffield Hallam University, Sheffield, UK from 10-13 September, 2018. More than 50 researchers around the globe presented their research papers in the conference. The accommodation and travel expenses for the conference were covered by the HEC, Pakistan.

Participation in performance art Show at Canvas Art Gallery Karachi

Mix Tape is a one-day performance Art Show which was Curated by Sara Pagganwala at Canvas Art Gallery Karachi. Miss Nida Ramzan from Department of Design participated in the show on 15th September 2018. Miss Nida Ramzan worked on the topic illusions and the realities that exists for women, who face this fact in context of contemporary culture.





MoUs and Collaborations

MoU signing ceremony between NTU and NUST

MoU signing ceremony between NTU and NUST was held on 11th September, 2018 at CIE-NUST. The mutually decided objectives related to Intellectual Property Services, Research and internship opportunities were covered under the agreement.



MoU between Knitting Department and Kay & Emms

MOU Signing ceremony between Knitting NTU and Kay & Emms was held on 13th September, 2018. MoU was 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.

MoU signed with T.M. Rubber (Pvt) Ltd Lahore

An MoU was signed between Department of Polymer Engineering and T.M Rubber. HOD, Polymer Engineering, Dr. Yasir Nawab visited T.M Rubber Lahore along with faculty members. A very productive discussion was carried out with the executives and R&D team of T.M. Rubber. It was agreed to work together on polymer based composite materials.



T.M. Rubber signed agreement with NTU to launch Tanveer Mir MS Fellowships



The T.M. Fellowships for MS Polymer Engineering and MS Advanced Materials Engineering will support early career academics of postgraduate students to establish successful research careers and become future research leaders in their fields. The scheme provides funding for two years to allow awardees the freedom to concentrate on basic research in any field of engineering and help them to focus on country level research projects. Funding for the T.M. Research Fellowships is provided by the CEO of T.M. Group of Companies, Lahore. Two outstanding MS students (One each from Polymer and Advance Materials) will be awarded prestigious T.M. Fellowships to advance their research careers. Their work will address some critical industrial issues, enabling them to develop independent careers in research and establish themselves as future leaders in their fields.

Faculty & Student Exchange program with University of Liberec, Czech Republic

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



MS Advanced Materials Engineering students participated in DICE-Health, 2018 held at Dow UHS, Karachi

Students of MS Advanced Materials Engineering participated in the DICE-Health 2018 at Dow University of Health Sciences, Karachi. They displayed their project titled "Development and Characterization of Multifunctional Polysaccharide Based Nonwoven Wound dressing". Mr. M.A. Khubaib, Mr. Abdul Qadeer and Mr. Raja Waseem Ullah were the team members. The team was jointly supervised by Dr. Rashid Masood, Dr. Zulfiqar Ali Raza and Professor Dr. Tanveer Hussain. The visitors admired the efforts and novel developments of the team in health sciences field. Dr. Mohammad Tariq Siddiqi, Managing Director EPLA Laboratories, (PVT) Limited, also visited the stall and invited the team for presentation with business plan.



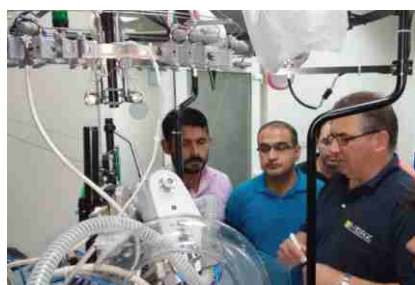
Trainings and Workshops

Compression Knitting Machine for Medical Stockings

Mr. Zeeshan Azam (Lecturer, Department of Knitting) visited Germany for training to produce medical stockings on compression knitting machine. Compression knitting machine was purchased by NTU from Merz, Germany which is a well-known manufacturer of compression hosiery machines. He was trained on general guidelines about medical products testing of medical stockings and programming of machine.



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 gave training. He gave training about machine and its programming. Compression stockings were produced using different types of yarns and by varying machine parameters. It will be helpful for both staff and faculty in future for research on medical stockings.

Training on Self-Assessment Report organized by QEC

Quality Enhancement Cell (QEC) organized one day training workshop on Self-Assessment Report (SAR) on 19th September 2018 at IT Center. Prof Dr. Zahid Rizwan (Director QEC) chaired the training session. Dr. Sajjad Baig (Director Graduate Studies Program FMS) and Dr. Muhammad Asif (Asst. Professor, Deptt. of CS) were also present. Engr Muhammad Haroon (Asst. Director QEC) conducted the training session for the Program Teams. The Program Team members were Dr. Kashif Iqbal, Dr. Salman Naeem, Dr. Abdul Jabbar, Dr. Muhammad Babar Ramzan, Dr. Muhammad Bilal Qadar, Dr. Zubair Khaliq, Dr. Muhammad Hashim, Mr. Saleem Ansari, Ms. Nida Ramzan, Mr. Muhammad Adeel, and Mr. Asif Suryani. It was an interactive session. All the participants discussed in detail the various aspects to prepare of the Self-Assessment report.



QEC Session on designing quality in Business Management Programs (7.2 Competence ISO-9001 QMS)



Quality Enhancement Cell of National Textile University participated in the one day session on “Designing Quality in Business Management Programs (7.2 Competence ISO-9001 QMS)” organized by Institute of Business Management (IoBM) Karachi on 18th October 2018 through HEC Video Conferencing Network. The resource person was Dr. Zaki Rashidi (Director; Quality Learning & Innovation (QLI), Iqra University Karachi). During the session, various aspects of Quality Management System (QMS) in Higher Education were discussed. The focus was specifically on the ISO-9001 Clause 7.2 Competence and how it can be rightly implemented in perspective of improving Quality of Higher Education.

GRE Test Preparation Workshop for Fulbright Scholarship-Phase II

Advisor Student Office organized Phase-II, GRE Test Preparation Workshop for Fulbright scholarships by USEFP (United States Educational Foundation in Pakistan). Mr Zeeshan Rahat Kureshi (Principal Adviser - Test Preparation / Team Lead Lahore Advising) conducted a free GRE preparatory workshop. He has successfully developed and delivered preparatory courses that include GRE and GMAT. The session included topics such as verbal reasoning and analytical writing. The participants were given questions and exercises to help them get acquainted with the GRE format.



Important Visits at NTU

Mr. Farrukh Habib, MNA, visited National Textile University, Faisalabad



Mr. Farrukh Habib, MNA, visited National Textile University, Faisalabad on October 01, 2018. Prof. Dr. Tanveer Hussain, Rector NTU briefed the MNA on current status of textile industry, exports and remedies for improvement. He emphasized that sustainable growth of textile industry is possible by shifting to knowledge based industry; thus, role of National Textile University is pivotal in this aspect. He also briefed the visitors about current facilities and ongoing research in the university and presented the need of establishment of dedicated campus for textiles keeping in view the current and future needs. Mr. Farrukh expressed his gratitude to Rector NTU for inviting him to visit NTU. He assured his full support to make NTU world class university so that it may extend support to textile industry for a sustainable growth.



Visit of US Consulate General Lahore to NTU



Mr. Tanveer Hassan, Mr. Sultan Qureshi and Ms. Attiya Battol from US Consulate General Lahore visited NTU to discuss about the programs pertaining to the personality grooming and development of students and faculty. Professor Dr. Tanveer Hussain (Rector) briefed the delegation about NTU and its collaboration with International Universities particularly with US Universities. Dr. Amjed Javid (Advisor students) briefed about the extracurricular activities held in the NTU. The guests visited the various labs and appreciated the existing research facilities.

Mr. Gerhard Neudorfer, ASM of Pinter Group, Spain CEO Business Enterprise Pakistan visited NTU

Mr. Gerhard Neudorfer, Area sales Manager (Pinter Group, Spain) and Shuaib Umer, Chief executive (Atlantic Business Enterprise Pakistan) visited National Textile University, Faisalabad on October 02, 2018. Prof. Dr. Tanveer Hussain (Rector) and Dr. Zulfikar Ali (Dean FET) along with Dr. Muhammad Bilal (Coordinator Yarn Manufacturing) briefed them about the University and different activities.



Syed Iftikhar Hussain Babar, Federal Secretary (Textile Division) at NTU, Faisalabad

Syed Iftikhar Hussain Babar, Federal Secretary (Textile Division) visited NTU on December 06, 2018. Prof. Dr. Tanveer Hussain (Rector) briefed him about global textile trends and role of National Textile University.



Visit of Senator Her Excellency Mrs. Rukhsana Zuberi in the Dept. of Computer Science

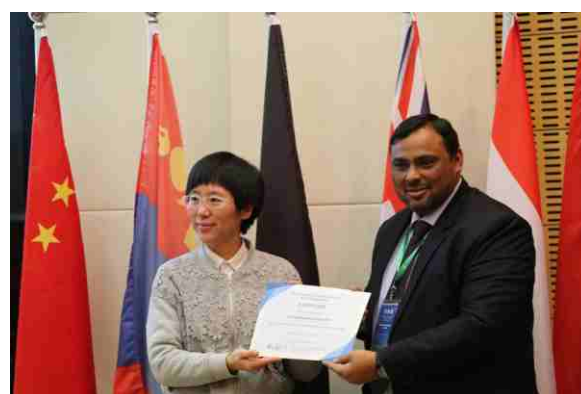


The honorable senator Mrs. Rukhsana Zuberi visited the Department of Computer Science on 19th October 2018 for the importance and awareness session of Microsoft Office Specialist exams. She was accompanied with the focal person of HEC Mr. Abbas. During her discussion with the worthy rector of NTU, she appraised the performance of the Department of Computer Science and also congratulated the Rector NTU for being a National Champion in MOS in last years. A brainstorming session was held in the presence of worthy rector, Chairman DCS Dr. Muhammad Asif, HEC MOS focal Person Mr. Waqar Ahmad and Assistant director student affairs Ms. Nadia Shamim.

Achievements and Awards

NTU joins as a founding member of "Belt and Road World Textile Universities Alliance"

NTU joined as a founding member of "Belt and Road World Textile University Alliance" at "World Textile and Fashion Education Conference" held from 8-11 December, 2018 in Donghua University, Shanghai, China. This alliance includes 38 textile universities from 27 countries. Professor Dr. Jiang Changjun, President of Donghua University inaugurated the "World Textile and Fashion education Conference" and mentioned that B&R countries cover 60% of the world population and 35% of the world GDP. He emphasized that the development of these countries is very important for prosperity in the world. Dr. Yasir Nawab, Director Graduate Studies participated in the conference and alliance. He gave a presentation on importance of CPEC and overview of National Textile University. The major objectives of this alliance are capacity building, collaborative research and degrees, trainings, scholarships, students and faculty exchange. It was agreed at the ceremony that Donghua university will build a Belt and Road (B&R) Research center for the faculty and students from alliance countries. Moreover, funding will be provided to researchers from B&R countries to carry out project in their own country or at the research center. A research lab will also be established at NTU under this initiative. Scholarships will be provided to BS, MS and PhD students from B&R fund so that they may complete degrees or research for a short duration at the member countries. Meetings were held to create a joint industry-academia platform. National Textile University takes the pride of being the only university from Pakistan to join this alliance.



National Computing Education Accreditation Council (NCEAC) Accredited BSCS Program of NTU



The BSCS program was accredited by the National Computing Education Accreditation Council (NCEAC) Islamabad with excellent remarks and observations.

Some of the prominent points are:

1. The faculty is quite happy about the good working environment.
2. The cooperation and coordination among the faculty members.
3. Research is encouraged and promoted.
4. Good Discipline and a positive attitude.
5. Students are quite happy with the faculty and conducive environment of NTU.

The Quran Society

The Quran Society participated in All Pakistan Qiraat & Naat competition that was held at Chenab College Chiniot. Muhammad Soban Shoukat got 2nd position in All Pakistan Qiraat competition. Muhammad Saveez got 4th position in Naat competition.





Highest acceptance rate in HEC NRPU Programme (2017-18)

NTU submitted 20 research proposals to HEC under program National Research Support Program for Universities. Out of which 11 were selected by HEC for funding. ORIC-NTU congratulates the hardworking faculty members for their endless efforts in this regard. Projects of following faculty members were accepted: Dr. Abdul Jabbar, Dr. Zubair Khaliq, Dr. Hafsa Jamshaid, Dr. Munir Ashraf, Dr. Amjad Javed, Dr. Ali Afzal, Dr. Sajjad Ahmad Baig, Dr. Muhammad Hashim, Dr. Muhammad Tahir Hussain, Dr. Zulfiqar Ali Raza and Dr. Zulfiqar Ali

NTU-SRSP Phase-2 launched by ORIC

NTU-Short Research Support Program SRSP intends to facilitate the faculty members for preliminary studies, which may convert to mega projects later on. In this program University funds upto 0.1 million to winning PI. In first phase five projects were awarded the funding. In second phase of NTU-SRSP, a total of 8 projects were submitted by faculty members. The evaluation and selection of projects will be performed by the selection committee.

Department of Computer Science Won TWO Competitions in VisioSpark 2018



Students of National Textile University participated in the VisioSpark'18 held on 17th November 2018; a mega event hosted by COMSATS University Islamabad (Wah Campus). The students gave an incredible performance among 40+ universities and proved their abilities and talent by securing various positions. DCS are looking forward to a bright future for our students in technical as well as in non-technical fields.

Following are details of the positions:

1- CS-QUIZ Competition

1st Position Sana,Tayyaba/BSCS
Abbas, Humael Hussain

2- Poster Designing

2nd Position Muhammad Yasir BSCS

Over 1,500 students from 40+ universities and institutes across the country participated.

Seminars/Events Conducted by NTU

Communication Skills & Stress Management in Textile Industry

Considering the awareness of Stress Management and Effective Communication Skills in Apparel industry, the Society of Garment Manufacturers arranged a valuable seminar on 27th November 2018. Distinguished speakers from PSMI (Pakistan School of Motivation and Innovation) Dr. Hafiz Ibban Saleem, Syeda Hifza Marij, Salma Bilal & Mr. Hassan delivered lectures on following key points.

1. Stress Management in Industry
2. Interview Cracking for Industry
3. Communication Skills in Industry
4. Personality building and our social responsibilities



Seminar on “Lean Stratup”

Society of Textile Knitters arranged a seminar on “Lean Startup”. This method teaches about how to drive a startup, how to steer, when to turn, and when to persevere-and grow a business with maximum acceleration. Lean manufacturing makes obvious what adds value, by reducing everything else (which is not adding value). This management philosophy is derived mostly from the Toyota Production System (TPS) and identified as “lean” only in the 1990s.



Pink Ribbon awareness campaign Organized by Department of Design



Pink Ribbon awareness campaign was organized by Design Department on 24th October 2018 for awareness on Breast cancer. An informative seminar was conducted at NTU main hall with the collaboration of Rotary Club Faisalabad. In the seminar, Mr. Umer Aftab (CEO of pink ribbon) explained the aims and objectives of pink ribbon organization. The awareness of breast cancer and self-examination session was covered by the Dr. Sonia Qaiser. Dr. Anum (Assistant Commissioner of Faisalabad) also made the audience aware about the issues and taboos related to it. Renowned gynecologist Dr. Samina Zafer was the guest of honor for the event who also shared her opinion and precautionary measures related to reduce the risk of being the victim of this deadly disease.

Seminar on “Corporate Social Responsibilities and Our Mind Sets”

Considering the scope of textile industry, corporate social responsibility is not only the important concept, but companies can make a huge difference by implementing it. There is a gap between understanding and implementation of CSR concept due to lack of awareness. In this context, the Society of Garment Manufacturers arranged a valuable seminar on “Corporate Social Responsibilities and Our Mind Sets” on 24th October, 2018. Mr. Malik Abdul Qayyum Raza (Senior Manager HR & Admin Sitara Chemical Industries (Textile Division) Faisalabad) delivered a lecture on key points.



NTU Library organized an Awareness Seminar



NTU Library organized an Awareness Seminar in collaboration with Pakistan Scientific and Technological Information Center (PASTIC) Sub- Center, Faisalabad on 23 November, 2018. PASTIC is the premier organization for dissemination of Scientific and Technological Information to the Scientists, Researchers, Engineers, Entrepreneurs, Industry and Citizens of Pakistan. It is an auspicious occasion to glorify the love of books and to promote intellectual refinement. The event consisted of two segments i.e. “PASTIC Display” and a Seminar on PASTIC Services and Resources.



Working on Entrepreneurship

Kickstart activities for NTBIC

On 22nd October, the seminar on Entrepreneurship was held in main hall of NTU. Final year students were main focus of the event. The mentors Mr. Muhammad Usman (CEO- UNIAL-FSD) and Mr. Amjad Baig (a renowned Entrepreneur) delivered the motivational and informative talks to students. Final Year students discussed their projects with the mentors and got significant suggestions for their startups.



Two days training on TRIZ



Office of Research Innovation and Commercialization organized Two days training on TRIZ on 8th and 22nd October, 2018. Faculty members from various Departments of NTU participated in training. Mr Qadeer Ahmad Bhatti (Resource Person) from Factual Solutions discussed the fundamentals of TRIZ problem solving. Contradiction matrix and assignments were shared amongst participants. The training ended with certificate distribution among participants.

Inaugurations at NTU

Gym at NTU with Improved Machinery

The opening of the gym at NTU with improved machinery for exercise was conducted by Prof. Dr. Tanveer Hussain (Honorable Rector, NTU) on October 05, 2018. Mr. Salman Saif (Registrar), Dr. Amjed Javid (Advisor Students), Dr. Zafar Javed (HoD Department of Design), Mr. Zabih ullah (Controller of Examination), Mr. Waqar Ahmad (Deputy Director Sports), Major(Retd) M. Ahsan Maqbool (Deputy Director Security) and Imran Gill (Sports officer) were also present on the ribbon cutting ceremony.



Establishment of Tuka Centre

Inauguration of TUKATECH Labs



NTU with the support of Assayst Apparel Pakistan, has joined hands with TUKATECH USA for the establishment of TUKA center at NTU (Main Campus and Karachi Campus). In addition to this, two CAD labs having 50 TUKA-CAD stations for virtual pattern making, draping and 3D modeling will be established in the Department of Design and the Department of Garment Manufacturing. The inauguration ceremony of TUKA center and Labs was performed by Mr. Ram Krishan Sareen (Founder and Managing Director, Tukatech) and Prof. Dr. Tanveer Hussain (Rector, NTU). Credit of efforts goes to NTU Team comprising of Dr. Zafar Javed and Dr. M. Salman Naeem under the leadership of honorable Rector NTU.



Testing Services Offered by NTU

FIBER TESTING	STANDARD TEST METHOD
Single Fiber Strength test	ASTM D 3822
Fiber Composition of Textiles (Quantitative)	AATCC 20A
Fiber Composition of Textiles (Qualitative)	AATCC 20
Cotton Fineness	ISO 2403, ASTM D 1448-11
Cotton Fiber Length and Length Uniformity	ISO 6989, ASTM D 5103-7
Cotton Breaking Strength by Pressley Tester	ISO 3060, ASTM D 1445-12
Cotton Trash Content	ASTM D 5867-5
Fiber Moisture Content	ASTM D 2495-12
Cotton Fiber (HVI) Tests	ASTM D 5867-12
YARN TESTING	STANDARD TEST METHOD
Yarn Unevenness (Uster-5)	ASTM D 1425
Linear Density by Skein Method	ASTM D 1907, ISO 2060
Linear Density by Short Length Method	ASTM D 1059
Tensile Properties of Single Yarn	ASTM D 2256, ISO 2062
Lea Breaking Strength	ASTM D 1578, ISO 6939
Twist by Contraction Method	ASTM D 1422, ISO 17202
Twist by Direct Method	ASTM D 1432, ISO 2061
Classification of Yarn Faults	Lab Developed
Yarn Crimp and Yarn Take-up	ASTM D 3883-4
Yarn Type Analysis	ASTM D 3887-4
FIBRIC TESTING	STANDARD TEST METHOD
Fabric Width	ISO 22198, ASTM D 3774
Fabric GSM	ISO 3801, ASTM D 3776
Pilling Resistance by Martindale Tester	ISO 12945-4, ASTM D 4970-12
Pilling Resistance by ICI Method	ISO 12945-1, BS 8479
Random Tumble Pilling	ISO 12945-3
Abrasion Resistance	ISO 12947-2
Tearing Strength by Elmendorf Tester	ISO 12937-1
Bursting Strength of Fabrics	ISO 12938-2
Breaking Strength by Grab Method	ISO 13934-2
Wrinkle Recovery Test	AATCC 66
Dimensional Stability to Washing	ISO 6330/AATCC 1355
Color Change (After Washing)	AATCC 179S
Smoothness Appearance (After Washing)	AATCC 124
Soil Release of Fabric	AATCC 130
Color Evaluation by Spectrophotometer	AATCC Evaluation Procedure 6
Breaking Strength by Strip Method	ISO 13934-1
Seam Strength	ASTM D 1683
Weave and Design of Fabric	ASTM D 3775
Gauge of Knitting Machine	Lab Developed
Courses and Wales of Knitted Fabric	Lab Developed
Thickness of Fabric	ISO 5084, ASTM D1777
Bow and Skew in fabric	ASTM D 3882
Color Fastness to sea Water	ISO 105-E02
Color Fastness to sea Water	ISO 105-E03
Dye-ability Test	Lab Developed
method Color Fastness to Perspiration	ISO 105-E04
Color Fastness to Washing	ISO 105-C01,2,3,6/ AATCC 61
Color Fastness to Dry Cleaning	ISO 105-D01
Color Fastness to Light	ISO 105 B02,B04 / AATCC 16.3
Color Fastness to NaClO Bleach in Home	AATCC 188
Color Fastness to Crocking	ISO 105 X12, AATCC 08
Absorbency of Textiles	AATCC 79
Fault in Cloth	Lab Developed
Blend Ratio of fabric (2 Components)	AATCC 20, 20



Testing Services Offered by NTU

Identification of yarn/Fabric	Lab Developed
Percentage of yarn in fabric (per side)	Lab Developed
Seam Strength Test	ISO 13935-2, ASTM D 683
TESTING OF COMFORT PROPERTIES OF TEXTILE FABRICS	STANDARD TEST METHOD
Thermal Properties of fabric (Sweat Guard Hotplate)	ISO 11092
Water Vapor Permeability (Sweat Guard Hotplate)	ISO 11092
Thermal Properties of fabric (Permetest)	ISO 11092
Water Vapor Permeability (Permetest)	ISO 8096
Water Vapor Permeability (Standard Room Conditions)	ISO BS 720
Air Permeability Test	ISO 9237, ASTM D 737
Fabric Touch Properties (Fabric Touch Tester)	Lab Developed
Fabric Stiffness	ASTM D 4032
Moisture Management of Textiles (MMT)	AATCC 195
Drying Rate Test	AATCC 199
Fabric Drape Test	BS 5058
Kawabata Bending Test	Kawabata
Kawabata Compression Test	Kawabata
Kawabata Surface Test	Kawabata
Kawabata Shear Test	Kawabata
Kawabata Thermal Test	Kawabata
PROTECTIVE TEXTILES TESTING	STANDARD TEST METHOD
Vertical Flammability Test	ASTM D6413
Limiting Oxygen Index Test	ISO 4589-1, ASTM D2863
Static Charge Test (Conductivity Tester)	BS EN 1149-1
UV/Sun Protection Factor Test	AATCC 183
Water Repellency Test (Spray Method)	AATCC 22
Water Resistance of Fabric (Hydrostatic Head Tester)	ISO 811, AATCC 127
Antimicrobial Test Qualitative	AATCC 147
Antimicrobial Test Quantitative	AATCC 100
ANALYTICAL TESTING	STANDARD TEST METHOD
X-Ray Diffraction (XRD)	Standard Protocol
Scanning Electron Microscopy (SEM)	Standard Protocol
Optical Microscopy	Standard Protocol
Particle Size Analysis (Zeta Sizer)	Standard Protocol
UV-Vis Spectroscopy	Standard Protocol
UV-Vis-NIR Spectroscopy	Standard Protocol
Fourier Transform Infrared Spectroscopy	Standard Protocol
Electro-Kinetic Potential	Standard Protocol
Energy Dispersive Spectroscopy (EDX)	Standard Protocol
Differential Scanning Calorimetry (DSC)	ASTM D 3418
COMPOSITE TESTING	STANDARD TEST METHOD
Dynamic Mechanical Analyser	ASTM D 4065
Thermogravimetric Analyser	ASTM E 1131
Thermomechanical Analyser	ASTM D 1545
Resistance to thermal transmission	ASTM E 1530
Dilatometer	ASTM E 831
Rheometer	Standard Protocol
Drop Weight Impact test	ASTM D 7136
Pendulum impact test	ISO 179, ISO 180
Melt Flow Indexer	ASTM D 1238
HAZARDOUS MATERIALS TESTING	STANDARD TEST METHOD
GCMS Test for Hazardous Materials	ISO/DIS 21084, ISO 18254-1
HPLC Test for Hazardous Materials	ISO 14362-1
Atomic Absorption Spectroscopy	Standard Protocol
Formaldehyde Testing	Standard Protocol

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NEWSLETTER
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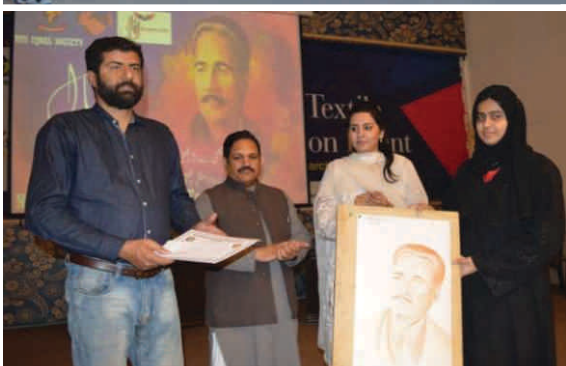
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Students Extra Curricular Activities



Cultural Diversity & Sports Activities



UpComing Events



6th - 7th March

4th NTU DICE Textile Innovation Event 2019



www.ntu.edu.pk/dicetextile



dicetextile@ntu.edu.pk



5th International Conference On Value Addition And Innovation In Textiles 2019

5-6 March, 2019



12 February, 2019



PAKISTAN HOSIERY MANUFACTURERS & EXPORTERS ASSOCIATION

3rd Knit to Achieve

1st Prize 50,000

2nd Prize 30,000

3rd Prize 20,000

in Collaboration with
NATIONAL TEXTILE UNIVERSITY
is Conducting a Product Development Competition



WEAVE 2 WIN

Last Date for Submission:
25th Feb, 2019

1st Prize 25,000

2nd Prize 15,000

3rd Prize 10,000

NOTE: Contact Person (Mr. Usman Javed, Mr. Hasan Iftekhhar) Weaving Department, NTU, Faisalabad

