



4th International Conference on Knowledge Based Textiles
February 19 – 20, 2025
Conference Program (Tentative)



Day 1 February 19, 2025

Time	Inauguration Ceremony (MH: Main Hall)		
9:30 – 9:35	Recitation from Holy Quran/ National Anthem		
9:35 – 9:40	Remarks by Secretary ICTT		
9:40 – 9:45	Welcome Remarks by Conference Chair		
9:45 – 9:50	Welcome Remarks by founder KnowTex/conference Co-Chair		
9:50 – 9:55	Welcome remarks by Conference Co-organizers		
9:55 – 10:05	Address by the Rector NTU		
10:05 – 10:10	Address by the Guest of Honour		
10:10 – 10:20	Address by the Chief Guest		
10:20 – 10:40	Distribution of Shields and Group Photos		
10:40 – 11:00	Tea Break		
	Planary Session (Main Hall) Chair: Prof. Dr. Zulifqar Ali (NTU, Pak)		
11:00 – 11:15	Squaring the Circle: Resilience Against the Un-reasonability Facing Pakistan's International Textiles Trading - an Alternative Paradigm	Dr. John Arthur (JAC, UK)	
11:15 – 11:30	Advancing Textile-to-Textile Recycling in Pakistan: Opportunities and Urgent Needs for Transition	Ms. Nin Castle (Reverse Resources, Spain)	
11:30 – 11:45	Addressing Identified Challenges of Environmental Impact Assessment through Interdisciplinary Collaboration	Dr. Alana James (Northumbria University, UK)	
11:45 – 12:00	Extraction and Isolation of Nanocellulose from Plants and Their Applications	Prof. Mohd Sapuan Salit (Universiti Putra Malaysia)	
12:00 – 12:15	Development of a translational R&D Ecosystem Geared towards Innovation and Commercialization	Dr. Aqif Anwar (University of Education, Pak)	
12:15 – 12:30	Alternative Fiber Solutions (AFS): Creating a socio-economic impact by indigenous alternative natural fibers	Dr. Faheem Ahmad (NTU, Pak)	
12:30 – 13:10	Panel Discussion 1: Global Textile Trends: Navigating Regulations, Sustainability, and Market Demands Moderator: Mr. Mujebullah Khan	Panelists Dr. Nabeel Amin (Head of Compliances, Ministry of Commerce, Pak) Ms. Marina Chahboune (Closed loop Fashion, Germany) Mr. Imran Zaidi (Primark, Pak) Mr. Alberto Saccavini (Bluemine Srl, Italy) Mr. Luca Galvani (Teddy Group, Italy)	
13:10 – 14:10	Lunch Break		
	Session A1 (Main Hall) - Sustainability & Traceability -1 Chair: Prof. Perison Smith (Northumbria University, UK)	Session B1 (MP Hall 1) - Composite-1 Chair: Prof. Mohd Sapuan Salit (Universiti Putra Malaysia)	Session C1 (MP Hall 2) - Business 1 Chair: Prof. Dr. Muhammad Abrar (LBS, GCUF, Pakistan)
14:10 – 14:30	Fibre fragmentation from textiles and microfibre pollution: root causes, sources, pathways and mitigation Dr. Kelly Sheridan (Northumbria University, UK)	Blast Behaviour of Fiber-Reinforced Polymer Composite Structure: Review Prof. Mohd Yazid Yahya (UTM, Malaysia)	EU Policies on sustainable & circular textiles and Situation in Pakistan. Dr. Muhammad Shahzad Iqbal (NTU)
14:30 – 14:45	Climate finance and Sustainable Practices-Opportunities and challenges in developing countries-A case study of Pakistan in the textile sector Mr. Sohail Ali Naqvi (WWF, Lahore)	Natural Fiber-Gypsum Composites for Building Insulation Prof Muhammad Arif ul Islam (Khulna University of engineering and Technology, Bangladeshaish)	Green Innovation and Textile Firms' Sustainability: Moderating Impact of Green Intellectual Capital Dr. Muhammad Usman (NTU)
14:45 – 15:00	Navigating Conversations Around Sustainability Regulations for Pakistani Textile Exporters Mr. Mian Sajeel Sohail (Green Story, Pak)	Defense applications of advanced polymer composites Dr. khubab Shaker (NTU)	Payout policy a dilemma, a bone of contention: Evidence from Financial institutes of Pakistan during Covid 19 Pandemic. Mr. Hafiz Muhammad Zeeshan Raza (NTU)
15:00 – 15:15	Traceability in Pakistan's Cotton Sector: Lessons Learned and Practical Applications for the Competitive Edge Mr. Muhammad Abdullah (ELEVATE)	Effect of loading concentration of graphene nanoparticles on microwave absorption properties of carbon fiber reinforced composite structures Dr. Hafiz Shahbaz Ahmad (NTU)	A COMPARATIVE ANALYSIS OF THE GARMENTS INDUSTRY IN PAKISTAN AND BANGLADESH: A focus on Supply Chain Management, Marketing practices and Social Responsibility Ms. Ghazia Batool (NTU)
15:15 – 15:30	Digital Product Passport: Challenges and Opportunities for Pakistan's Textile Sector Dr. Khalid Mehmood (SAWIE)	Characterization of the Aniline. DBSA/Thermoplastic polyurethane blends for the thermo-mechanical and electro-mechanical properties Ms. Iqra Abdul Rashid (NTU)	Effects of Ethical Corporate Identity on Customer's Purchase Intentions and Brand Reputation with Mediating Role of CSR Practices Mr. Faiz Rasool (GCUF)
15:30 – 15:45	Nano Technology Tracing Textile Mr. Imran Asghar (Fibretrace)	Transforming denim and polyethylene sheet waste into fiber-reinforced composites for large-scale applications Mr. Raja Muhammad Waseem Ullah Khan (NTU)	Impact of Strategic Green HRM on Knowledge Sharing and Green Creative Behavior Ms. Fiza Amjad (Central south university Chnagsha Hunan China)
15:45 – 16:05	Tea Break		
	Session A2 (Main Hall) - Fiber Chair: Prof. Zeeshan Khatri (Mehran UET)	Session B2 (MP Hall 1) - Textiles 1 Chair: Dr. Aminoddin Haji (Yazd University, Iran)	Session C2 (MP Hall 2) -Business 2 Chair: Dr. Amina Rizwan (University of Central Punjab, Pakistan)
16:05 – 16:25	Market Survey for Banana Fiber Products: Consumer Awareness, Sustainability Preferences, and Policy Interventions Dr. Josphat Igadwa (Moi University, Kenya)	Exploring the potential of knitted materials to protect against vibrations Prof. Dr. Mirela Blaga (Gheorghe Asachi Technical University of Iasi, Romania)	Contemporary Issues in textile business, opportunities and threats Dr. Mohsin Bashir (GCUF)
16:25 – 16:45	Fibre Extraction as a Waste Management Solution for the Production of Pineapples Mr. James Boyd-Moss (Founder, Mananasi Fiber LTD Kiambu, Kenya)	Chemical Textile Recycling: A Path to Sustainability Mr. Alberto Saccavini (Bluemine Srl, Italy)	Barriers to IoT Adoption in the Textile Sector of Pakistan: A Supply Chain Perspective Dr. Zahid Hussain (NTU)
16:45 – 17:00	Enzymatic and Chemical Degumming of sisal fiber for Textile Applications Ms. Bushra Mushtaq (NTU)	Exploring Textile Sustainability: The Power of Recycling Fibers from Diverse Blends Dr. Salma Farooq (NED University of Engineer and Technology, Karachi)	Impact of Knowledge Diffusion on the Adoption of Circular Practices in Pakistan's Textile Producing Companies Ms. Naila Azhar (Hong Kong University of Science and Technology)
17:00 – 17:15	Computational analysis of plain weft knitted fabrics for the study of air permeability and thermal conductivity Dr. M. Owais Raza Siddiqui (NED)	Waste to Value Mr. Mustafa Ahmad (Artistic Milliners)	Enhancing Organizational Justice and Trust through Conflict Resolution Training: The Role of Leadership Fairness and Power Dynamics Mr. Muhammad Navid Iqbal (NTU)
17:15 – 17:30	Empowering Ugandan Banana Farmers: Successes and Challenges in Fiber Extraction Mr. Muturi Kimani (TEXFED, Uganda)	Antimicrobial textile to accelerate wound healing period Dr. Nadeem Iqbal (Pothohar PolyChemicals Pvt LTD, Jehlum)	Impact Of Greenwashing on Green Purchase Intentions: The Mediating Role of Green Skepticism, And Moderating Role of Environmental Concern Ms. Faiza Sultan (Riphah International University Faisalabad Campus)
17:30 – 17:45	Unlocking the Potential of Banana Stem Waste for Sustainable Fiber Production in Kenya, Uganda, and Pakistan Mr. Godias Tumusiime (Busitema University, Uganda)	Nanofiber membrane effectively reduces air contaminants and minimizes pressure drops Mr. Abdul Wahid (Donghua University, China)	Utilization of Food Waste in the Textile Industry: A Sustainable Approach Ms. Namrah Abid (University of Agriculture, Faisalabad)

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Day 2 February 20, 2025			
	Session A3 (Main Hall 1)- Energy & Textiles Chair: Dr. Josphat Igadwa (Moi University, Kenya)	Session B3 (MP Hall 1)- Composite-2 Chair: Prof Muhammad Arif ul Islam (Khulna University of engineering and Technology, Bangladeshaish)	Session C3 (MP Hall 2)- Sustainability 2 Chair: Prof. Dr. Mirela Blaga (Gheorghe Asachi Technical University of Iasi, Romania)
9:30 – 9:50	Decarbonizing the Textile Industry in Pakistan: Evaluating and Advancing Low-Carbon Thermal Energy Technologies Dr. Shahid Rasul (Northumbria University, UK)	A comprehensive review on composites in additive manufacturing: Advancements, applications and challenges Prof. Mohd Sapuan Salit (Universiti Putra Malaysia)	PET-Based Activated Carbon & Chitosan Composites: An Efficient Adsorbent for Aqueous Dye Removal Dr. Romana Afzal Khan (COMSATS University Islamabad, Abbottabad Campus)
9:50 – 10:05	Industrial Energy Efficiency Through AI Dr. Naveed Arshad (LUMS, Pak)	Comparison of Mechanical Characteristics of Single Stacked and Multi Stacked-3D Woven Spacer Composites Dr. Danish Mahmood Baitab (NTU)	Development of Acetylcholine esterase-based (AChE) biosensor for Arsenic detection from Blood and Water Dr. Shagufta kamal (GCUF)
10:05 – 10:20	The Impact of Energy Uncertainty on Corporate Financial Performance: Evidence from Pakistan's Textile Sector Ms. Lubna Hamid (Virtual University, Islamabad)	Recycled Carbon Fibers: A Sustainable solution for developing high-performance composites Dr. Muhammad Furqan Khurshid (Bahauddin Zakariya University, Multan)	Synthesis and characterization of Ca-alginate/CuO bionanocomposite for removal of Reactive Yellow 145 dye: A Green approach towards Dr. Shumaila Kiran (GCUF)
10:20 – 10:35	Closing the loop in Agriculture, Textile and Circularity to Achieve Climate Targets in Textile Sector Dr. Jibrán Khaliq (Northumbria University, UK)	3D Woven Composites for Ballistic Applications Dr. Muhammad Imran Khan	Sustainability through Optimization of Textile Effluent Treatment plants (ETP) using Design expert response surface methodology for textile industry Dr. Muhammad Irfan Siyal (NTU)
10:35 – 10:50	Turning Ideas into Impact: How Academia and Industry Can Co-Create the Future Prof. Zeeshan Khatri (Mehran UET)	Exploring Waste Streams: Transforming Local Textile and Agricultural Wastes into Composite Materials for Interior Decoration, Characterization, and Development Mr. Ali Raza Shafiqat (NTU)	Innovative Nitrogen-Doped Carbon Quantum Dot/Graphene Aerogel Composites for Efficient Textile Wastewater Treatment Ms. Sehrish Iftikhar (NTU)
10:50 – 11:10	Tea Break		
	Session A4 (Main Hall)- Textile Production Process /Textile (Misc) Chair: Dr. Jibrán Khaliq (Northumbria University, UK)	Session B4 (MP Hall 1)- Computer Science & Textiles Chair: Dr. Muhammad Asif (NTU, Pakistan)	Session C4 (MP Hall 2) - Circular Fashion and Design Chair: Dr. Alana James (Northumbria University, UK)
11:10 – 11:35	Textile Mechanics: Evolution and Future Perspectives Prof. Savvas Vassiliadis (University of West Attica, Greece)	Translating Academic Research into Innovative Products: Challenges & Opportunities Dr. Waheed Noor (University of Baluchistan, Quetta)	Art Integration in STEAM: A Critical Analysis of Acceptance in Pakistani Universities Dr. Umer Hameed (NTU)
11:35 – 11:55	Supercritical CO2 dyeing: challenges and opportunities for a greener textile industry Dr. Aminoddin Haji (Yazd University, Iran)	Performance Evaluation of Machine Learning Models for Urdu Character Recognition on Handwritten and Digital Datasets Dr. Akhtar Hussain Jalbani (Quaid-e-Awam Univ, Nawabshah)	3D Virtual Prototyping for Sustainable Design Process of Assorted Ugandan Fashion Styles Using Clo3D Virtual Fashion Software Dr. Obed Akampumaza (Kyambogo University, Uganda)
11:55 – 12:10	Ultrasonic-assisted dyeing of textiles – A Sustainable Way Dr. Awais Khatri (Mehran UET)	How AI is Changing the Textile Industry Dr. Kifayat Ullah (University of Swat)	Recent Progress in Carbon based Nano- materials for Wearable Energy Harvesting Devices Dr. Muhammad Haroon Rashid (NTU)
12:10 – 12:25	An investigation on shade depth for the dyeing of poly isophthaloyl meta-phenylene diamine with cationic dye Dr. Kashif Iqbal (NTU, Faisalabad)	Exploring the Challenges and Opportunities of the Internet of Things (IoT) in the Prospect of the Contemporary Business Landscape Dr. Shehbaz Ahmad (NTU)	Oscar Wilde's Influence on the Aesthetic Movement: Fashion and Textiles in Literature Ms. Qurrat Aini Binti Mohd Sapuan (Universiti Putra Malaysia)
12:25 – 12:40	Textiles from Alternative Fibers; Collaborations and Banana Fiber Valorization Dr. Edwin Kamlaha (Busitema University, Uganda)	Human centric intelligent planning and scheduling systems textile manufacturing and service industries for Industry 5.0 Dr. Saif Ullah (UET Taxila)	S.A.B.Z.: A Sustainable, All-Natural, Bio-degradable, Zero-Waste Textile Material Ms. Aleezay Mohsin (National College of Arts, Lahore)
12:40 – 13:40	Lunch Break		
	Session A5 (Main Hall)- Circularity Chair: Dr. Shahid Rasul (Northumbria University, UK)	Session B5 (MP Hall 1) - Textiles 2 Chair: Dr. Salma Farooq (NED University of Engineer and Technology, Pak)	Session C3 (MP Hall 2)- Business - 3 Chair: Dr. Muhammad Nazim (IBMAS, The Islamia University of Bahawalpur, Pak)
13:40 – 14:00	Marketing sustainable fashion: the communications solution Prof. Perison Smith (Northumbria University, UK)	Highly stretchable and tubular textile-based nano generator Dr. Roohollah Bagherzadeh (Amirkabir University, Iran)	Capitalizing on PSX for Textile Sector's Sustainable Expansion Dr. Hilal Anwar Butt (IBA, Karachi)
14:00 – 14:20	Reimagining Waste: Circular Economy in Textiles - Progress, Challenges, and Opportunities Ms. Marina Chahboune (Closed loop Fashion, Germany)	Fabrication of coral-reef structured nano silica for self-cleaning and super-hydrophobic textile applications Dr. Aima Sameen (NTU)	The sustainable supply chain management practices in textile industries; A path through a triple bottom line framework Ms. Iqra (GCUF)
14:20 – 14:35	Sewing thread to enhance the concept of mono material garment Prof. Zulfiqar Ali (NTU)	Development of antibacterial supported EMI shielded wearable fabrics Dr. Faiza Safdar (UET Lahore)	Role of professional live streaming marketing in building online brand preference Ms. Aqsa Saleem (GCUF)
14:35 – 14:50	Using LCA (Life Cycle Assessment) to enable Circularity Mr. Saqib Sohail (Artistic Milliner, Karachi)	A multi-functional nursing pad for lactating mothers Ms. Iqra Zainab (Government Graduate College, FSD)	An Investigation of Competitiveness, Marketing Strategies and Market Exploration to Revitalize Textile Exports Dr. Ibrahim Shahid (NTU)
14:50 – 15:05	Introduction of Circularity in the Banana Fiber Value Chain: Insights from College and University Students in Kenya Ms. Zipporah Boto (Moi University, Kenya)	Fabrication and Physio-chemical characterization of biocompatible and antibacterial Vitis vinifera(grapes) loaded PVA nanomembranes for dermal applications Mr. Rizwan Tahir (NTU)	The Role of Operational Strategies in Elevating Export Competitiveness Mr. Umair Manzoor (NTU)
15:05 – 15:20	Performance Evaluation of Detachable Denim Fasteners for Improved Sustainability Ms. Ayesha Kanwal (GCUF)	Development of Soft Hybrid Nanogenerator for Green Energy Harvesting Mr. Saffaan Irfan Siddiqui (NEDUET)	Circular Economy Practices and Financial Resilience in Pakistan's Textile Industry: Examining the Mediating Role of Cost Efficiency Ms. Saira Younis (NTU)
15:20 – 15:40	Tea Break		
15:40 – 16:20	Panel Discussion 2 : Exploring New Horizons: Diversification, Branding, and Resilience in Pakistan's Textile Sector Moderator: Dr.Hafsa Jamshaid (NTU)		Panelists Mr. Imran Asghar (Fibretrace) Prof. Josphat Igadwa (Moi University, Kenya) Prof. Munir Ashraf (HTW Berlin, Germany) Mr. Fahid Hussain Kahlon (Interloop Limited) Dr. Khurram Tariq (Kay & Emms (Pvt) Ltd.)
16:20 – 17:20	Closing Ceremony / Poster Competition Winners		

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