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Newsletter



Department of Textile Engineering & Technology

Faculty of Engineering & Technology
University of the Punjab
Quaid-i-Azam Campus, Lahore



Importance of Global Textile Standards & Compliance Requirements A Short Course held on 5th April, 2012 at University of the Punjab

Compliance with global import regulations of Europe and USA, such as REACH, CPSC and RSL is an important issue of the current era and the need of Pakistani Textile Industry. In this regard the Department of Textile Engineering & Technology, University of the Punjab, in collaboration with Ministry of Textile Industry, Textile Testing International (TTI) and University of Management & Technology (UMT) conducted a Short Course. The speakers who gave presentation were Mr. Hamid Lateef, CEO of TTI, Mr. Ali Ashraf, Senior Manager of TTI, and Dr. Nabeel Amin, Director Institute of Textile & Industrial Sciences UMT.

Mr. Hamid Lateef, gave presentation on

“Understanding Modern Testing Requirements and their Relationship with Product Acceptability”. He described that consumers are redefining values to include reliability of the product performance, product quality, consumer safety and environmental protection. This means testing & conformance to standards, increase the product value. He emphasized that roles of vendor, buying agent and retailer all are important and they have to comply with prevailing standards. He also highlighted how the 3rd party lab can play a convenient role.

Mr. Ali Ashraf gave presentation on “Requirements with regard to an overview of the Global Ecological Restricted

Substances Testing”. He described that the purpose of a Restricted Substances List (RSL) is to reduce the use of hazardous substances in the textile and apparel supply chain. The global ecological requirements are described by standards like Oeko-tex. These standards put restriction or complete ban or define the limits to use certain materials.

Dr. Nabeel Amin, gave presentation on “Laboratory Management & ISO 17025. He described that ISO 17025 relates to the management system and technical aspects like HR training, machines/equipments, chemicals/raw materials and is customer focused. This is a global standard for quality of sampling, testing and

calibration of laboratories. Dr. Nabeel Amin in another presentation on REACH (registration, evaluation authorization and restriction of chemicals), described its essential features.

The course was attended by large number of persons from textile industry from the middle management & senior management positions. There was significant presence from Interloop Faisalabad, Masood Textile Faisalabad, Sapphire Textiles Lahore, Nishat Textile Lahore and other miscellaneous textile units.

The outcome of this course will facilitate the testing and

quality assurance departments of these mills to enhance the testing and quality assurance for acceptability of their products in the international market.

The participants highly appreciated the standard of presentation and there was good interaction of audience with speakers. They also lauded the Punjab University approach to launch textile technology discipline in the university and conducting a valuable course for the value addition in textile sector.



Mr. Awais Mazhar

In this closing session the guest speaker Mr. Awais Mazhar, Chairman Garment City Lahore & CEO Angora Textile limited addressed the participants. He highlighted the need of highly trained and practically oriented graduates to address typical issues of the textile industry. Mr. Awais Mazhar also distributed certificates among the participants.



Group Photo of Participants of the Course

Infrastructure Developments in Progress at the Department of Textile Engineering & Technology

The idea of this department was conceived at the University of the Punjab to produce trained human resources for the largest industrial sector of the country. The pertinent area selected is textile processing, an important link of value addition chain. The higher

export earning is possible by the value added products using special textile finishing and function focused textile products like technical textiles. These goals can be achieved using multidiscipline approach i.e., textile engineering, chemical engineering and

polymer science. Thus strengthening textile discipline at Punjab University will be very useful, due to the availability well established chemical technology discipline and well equipped polymer technology laboratories at this prestigious University.

A View of Some of the Equipments purchased using HEC Grant (Rs.14.00 million)



Testing Textile Products:

Capacity is being developed for textiles products testing using available equipments and confirming to following standards ASTM, AATCC & ISO

List of Equipment Purchased

Computerized microscopic system	Launder-o-meter-automatic
Yarn examining machine	Random Tumble Pilling Tester
Automatic wrap reel for yarn	Crock meter
Twist tester	Air-Conditioning Rack
Lab knitting machine	Distillation Plant
Infra Red Dyeing Machine	pH meters SCHOT Germany
HT Dyeing and Washing Machine	Digital Precision Balance (Germany)
Padder	Automatic Hot Plate
UTM (Universal Strength testing machine)	Mechanical Shaker
Flammability tester 45 degree	Reciprocating Vacuum Pump
Heavy Duty automatic washing machine	Magnetic Stirrer Hot plate (Korea)
Heavy Duty automatic dryer	Reaction Vessels
Martindale abrasion & pilling tester	Electronic Tachometer
Perspiration tester	Electronic Psychrometer
Water repellency tester	

Shared Lab Facilities

Chemical Engineering

Gas Chromatograph
Atomic Absorption Spectrometer
UV Spectrophotometer
High Performance Liquid Chromatograph

Polymer Technology

Gel Permeation Chromatograph
Thermo-gravimetric Analyzer
Fourier Transform Infra red Spectrophotometer
Differential scanning calorimeter

Rich Literature Sources

Splendid collection of text books, hand books, encyclopedias on all aspects of textile engineering.

Approved Academic Programs

Degree Course	Diploma / Certificate & Short Courses
M.Sc. Textile Processing Technology Duration: Two Years (Four Semesters)	Post Graduate Diploma (PGD) in Textile Processing Technology Duration: Two Semesters
	Certificate Course in Textile Laboratory Professional (TLP) Duration: Three Months
	Certificate Course in Textile Technology Duration: Three Months
	Implementation of ISO 17025 in Textile Testing Labs Duration: One Week

The Department of Textile Engineering & Technology would be leading platform for continued professional development for the textile industry. The forthcoming events in this regard are mentioned as follow:

- Efficient and Ecological Textile Dyeing
- Okeo Tex / REACH Standards
- Process Intensification in Textile Industry: Energy Utilization

The exact dates will be notified on the web, www.pu.edu.pk/tet and in the national press.

Contacts:

Email: info.tet@pu.edu.pk Phone: 042-99232018 (Textile Office)

Linkages are Important

- A MOU has been made with Textile Testing International. Good cooperation exists for the conduct of short courses and development of testing methods. Recently with the humble support of Department of Textile Engineering & Technology, the Textile Testing International has successfully developed Phthalate tests for PVC incorporated in textile products.
- Negotiations are taking place to establish MOU with Institute of Textile and Industrial Sciences, University of Management & Technology for collaboration in teaching and research for textiles.

Multi discipline Approach:

Due to presence of strong disciplines of Chemical Technology & Polymer Technology at Punjab University, collaboration is envisaged in the fields of membrane technology, textile dyeing, waste water treatment and energy efficiency in the textile industry.

Acknowledgment:

The Department of Textile Engineering & Technology is grateful to Mr. Shahid Rashid, Secretary Ministry of Textile Industry for recommending financial support from the Export Development Fund and providing logistic support for arranging this successful short course. The sincere efforts of resource persons Mr. Hamid Lateef, Mr. Ali Ashraf and Dr. Nabeel Amin for conducting this course are highly appreciated.