

A TRAINING COURSE

FOR

PROCESS IMPROVEMENT IN COTTON SPINNING & GINNING

WITH ITRU FIBRE TESTER UAK-1 ++

& Cotton Fibre Testing , Mixing and Processing

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1- Introduction to Registration for the Technical Course

This training course is based upon the actual samples/technical information of the mills. The course takes place at Itru Training Center in Istanbul specific to each mill. Only the technical personnel of one mill can attend the course. Minimum number of Attendee is 2 and maximum number of Attendee is 4 for each mill.



Pre-registration Form:

Company Name:

Address

.....

Telefon/Fax/E-Mail:

Tax Office Number(if any)

Attendee Name and Titles:

1

2.....

3.....

4.....

Signed by :.....



Please Print this form Fill in and fax to either 90-212-501 43 57 or 90-212-551 54 56 or e-mail to itru@kilim.com.tr or info@itru.net

Samples and Technical Information Form:

Please send the samples and technical information given in the table below and fax the courier name and date of sending or e-mail to the mailing address (carrier freight costs belong to customer).

Samples /Information /Charts Description	Sample Data	Samples /Information /Charts Description	Sample Data
Cotton Fibre Type		Yarn Count Ne	
Raw Cotton	100 gram	Yarn End Use(Hosiery/Weaving)	
Card Entry/Gin Entry	100 gram	TPI(Turns per inch)	
Blow Room Waste	100 gram	Ring/Rotor rpm	
Card Waste(Taker-in)	100 gram	Ring/Rotor Diameter(mm)	
Card Flat Waste	100 gram	End-Breaks /1000-spindle Hr	
Card Sliver	5 metre	Yarn Mass Spectrograph 400 m/min 2,5 mins testing time	As Spectrograph
Comber Sliver	5 metre	20 Single Values of imperfections (CV%, thin, thick,neps)	
Comber Noil	100 gram	20 Single Values of Yarn Tensile Gram force and Elongation %)	
Ring Front Delivery Waste	100 gram	Waste Total of Blowroom /Ginning
Knitted Sample- 10x10 cm Grey and Dyed	2 Samples	Card Waste % and Card Sliver Nec/.....
Weaving Sample 10x10 cm Grey and Dyedı	2 Samples	Comber Noil % & Comber Sliver Nec/.....
		Ring Waste %	

Our Mailing Address for the Samples/Technical Information :

Itru Group Ltd

Gumussuyu Caddesi Topkapı Center Odin Is Merkezi No:28/207 Topkapı -34020 Istanbul /Türkiye

Tel/Fax:90-212-501 43 57 Fax:90-212-551 54 56 GSM :90-537 641 07 72

Full Registration and Fixing The Course Date:

Upon receiving the Pre-Registration Form and Samples and Technical Information.. We will send you Full Registration Form which includes terms and payment and recommended course dates that you could select according to your available time.

Application Training System /Course Costs /Course Language

The course is for two days for total 8 hours. The course cost is fixed for 1500 USD per mill (minimum 2 and maximum 4 people per mill can attend the course) Course fee does not include accommodation . Attendees should reserve their places before they attend the course. Coffee breaks, and 2 lunch breaks are provided by Itru .The training is interactive, computer aided and fully practical. A Course Certification will be given to each attendee who successfully completes the course .Course Fee includes training, fibre testing and comprehensive technical report for the mill.

Course Language is English .

Recommended Hotels :

Since our place is located in Topkapı Area we recommend following hotels in near us

Topkapı Eresin :<http://www.eresin.com.tr>

Green Park : <http://www.thegreenpark.com.com/tr/index.asp>

Hotel to Training Center and Training Center to Hotel traveling will be provided by Itru as long as whole technical people reside in the same hotel.

Sight Seeing in Istanbul :

Free sight seeing guidance in Istanbul could only be provided at end of the course.

2- Work Shop Studies

2-1- Cotton Classification

The first step is to classify the cotton samples according to table shown below

<i>Region</i>	<i>Category</i>						<i>Fibre Parameters</i>
	A	B	C	D	E	F	
							Length, Tensile, Color, Contamination, Openness, White Specks, Neps (55 Fibre Data Base Parameters)

And secondly project the yarn quality of these classification YSI(Yarn Strength Index) and Yarn Evenness Index (YEI) and Alpha (Twist Multiplier)

<i>Region</i>	<i>Category</i>						<i>Yarn Parameters</i>
	A	B	C	D	E	F	
							Yarn Strength Index, Yarn Evenness Index, Twist Multiplier

Yarn Strength Index related to Single Yarn Strength RKM and YEI is related total imperfections (thin ,thick places plus neps)

2-2 Optimum Fibre Mix Selection according to Processing Parameters

Optimum Fibre Mix Selection is carried out according to Processing Parameters outlined below:

- a) Type of Process (carded, combed ,air-jet and rotor)
- b) Ne
- c) Turns per inch

from the measured values of Fibre Data Base from Itru Fibre Tester UAK-1 +

2-3 Optimum Mixes(Blending) according to given data above (Fibre Mix Selection Software)

This mix selection will minimise defects in the fabrics and yarn according to minimum strength , color, variation in the yarn and fabric , avoiding white specks and minimum total imperfections.

2-4 Processing the Mixes in Spinning Mills(Fibre/Machine Control) From Harvesting to Ginning and Ginning to Ring /Rotor frame to Fabric Delivery

Process Improvements

a) Yarn Quality Data Analyses according to fibre properties at the ring frame delivery(Yarn Process Engineering Software + Itru Fibre Tester + Evenness Tester + Yarn Tensile Tester) and finding the mechanical defects from bale to ring frame delivery

b)Suggesting new spin plan,technical data/machine settings ,organisation /management for process improvement therefore Improved Quality/Increased Productivity/Better Utilisation of Raw Material, Machinery and Man Power.

All these lead to

- Improved Quality of fibres in ginning
- Improved Quality of yarns and fabrics
- Lower wastes and manufacturing costs
- Better yield performance
- Higher productivity in spinning and weaving and less fabric and yarn defects

For Further Information:

<http://www.itru.net/uak> directory download all the pdf files

Please do not hesitate to contact us for further information.

E-Mail :itru@hotmail.com E-Mail:itru@kilim.com.tr

3- COTTON FIBRE TESTING WITH ITRU FIBRE TESTER UAK-1 +

This section involves for those who send samples for evaluation purposes for the cotton fibres. Fibre Testing covers following subjects:

- A) Sample Selection
- B) Making a Mix
- C) Processing of Mix

Sample Selection

Two test per sample carried out for selection the samples according to

- Type of process(carded,combed or rotor spinning),
- Count Ne
- Turns per inch

and YEI (Yarn Evenness Index) which is related to total imperfections , Yarn Strength Index which is related to Yarn Strength are computed and 55 Fibre Data Parameters are measured and or computed.

Cost Per Sample 200 USD (Two test per sample)

Making a Mix

From the selected samples according to processing parameters mentioned above a Mix is prepared to minimise white specks, RKM CV % and defects in the yarns and fabrics.

Cost Per Sample is 200 USD

Processing

According to Measured Fibre Data Values recommendations are outlined for processing the mix

Cost per processing line is 400 USD from blend to ring frame delivery.

If you are interested in Cotton Fibre Testing please e-mail to itru@hotmail.com or itru@kilim.com.tr for further information .

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