

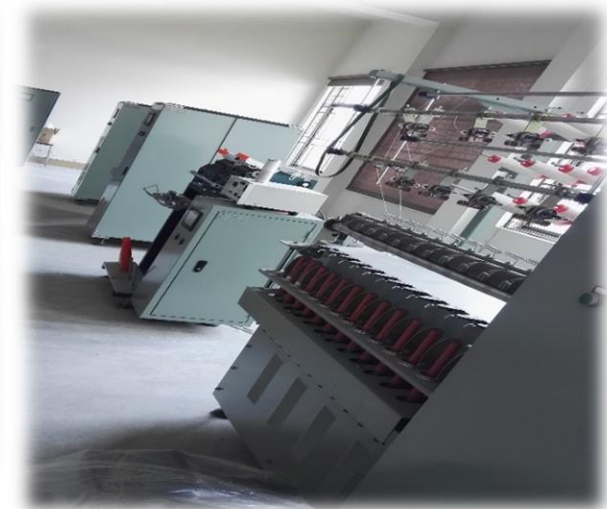


Textile Lab Facilities
at
Department of Textile
Engineering
UET Lahore, FSD Campus

Labs: Spinning

Sr. No	Equipment Name
1-10	Mini Spinning lab, Complete Range- 10 equipment (Pakistan's first and only such lab)
	Pilot Scale Spinning Machine
1	Bale Breaker
2	Step Cleaner
3	Scutcher
4	Card
5	Drawing Machine
6	Simplex
7	Ring

Labs: Mini and Pilot Spinning



Labs: Weaving & Knitting

Sr. No	Equipment Name
1	Sectional Warping Machine
2	Sizing Machine
3	Shuttle Loom
4	Sulzer Loom
5	Air jet Loom
6	Hand Loom
7	Flat Knitting
8	Circular Knitting
9	Microscope
10	Pick Counters & Magnifying Lenses
11	Digital Pick Counter
12	Inspection Table
13	Winding Machine
14	Wrapping Square

Labs: Weaving



Labs: Textile Wet Processing

Sr #	Equipment Name
1	Padder (Horizontal& Vertical)
2	Baker & Universal Steamer
3	Stenter
4	Pad Steam
5	Jigger dyeing machine
6	Exhaust dyeing machine
7	Washer
8	Tumble Dryer
9	Spectrophotometer
10	Limiting oxygen index (LOI) objective method
11	Flat Screen Printing Machine
12	Pneumatic Padder
13	Conditioning Chamber
14	Viscometer
15	Light box
16	Magnetic stirrers
17	Water bath
18	Digital pH meter, glassware, range of dyes and chemicals
19	Nano bubble machine
20	Foam coating machine

Labs: Textile Wet Processing



Labs: Testing and Quality Control

1	Abrasion and Pilling Machine
2	Tear Strength Tester
3	Tensile Strength Tester
4	Cotton Fineness with weight box
5	Microscope
6	Light Box
7	Color matching box
8	Wrap wreel
9	GSM Cutter
10	Yarn Examination machine
11	Electronic Yarn Counter
12	Thickness Gauge
13	Air Permeability Tester
14	Burst Strength Tester
15	Video Analyzer
16	Oil and water repellency kit
17	Double Comb Sorter

Labs: Testing and Quality Control...

18	Trash Analyzer for Cotton
19	Spectrophotometer (Portable)
20	Electronic Wrap Reel
21	Lea Strength Tester
22	Yarn Tension Meter
23	Yarn Twist Tester
24	Single Yarn Strength Tester
25	Scanning Electron Microscope (upto 6 nano meter)
26	Crease Recovery Tester
27	Wrinkle Recovery Tester
28	Spray Rating Tester (Shower Test)
29	Crock Meter
30	Bending Length Tester
31	Light fastness tester
32	Perspirometer
33	Spectrophotometer (Reflectance & Transmittance)
34	Colorimeter

Labs: Testing and Quality Control



Labs: Textile Chemical Synthesis and Polymerization Lab

Sr. No	Equipment Name
1	High temperature high pressure polymerization unit
2	General polymerization unit
3	Foam generator
4	High temperature (>1200°C) furnace with gases feed option
5	Digital temperature control stirrer
6	Oxygen and nitrogen assisted polymerization unit

Labs: Textile Chemical Synthesis and Analysis



Labs: Garment & Pattern Lab

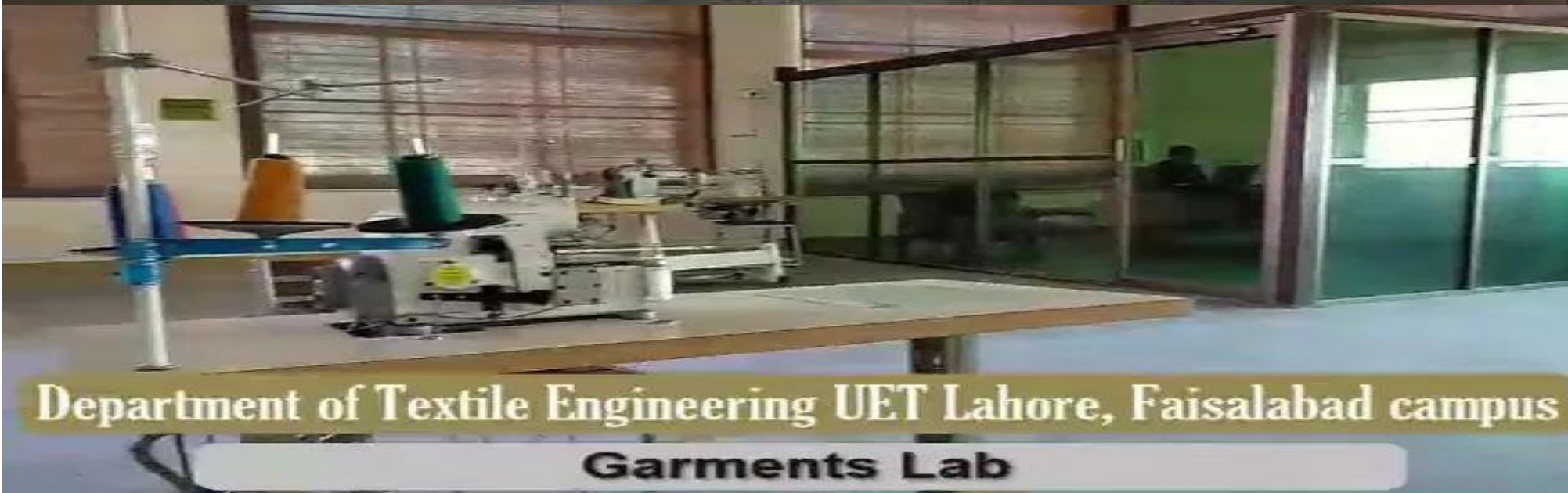
Sr. No	Equipment Name
1	Single needle lockstitch machine
2	Overlock swing machine
3	Three needle sewing machine
4	Interlock sewing machine
5	Single needle lock stitch machine, direct drive
6	AccuMark Gerber Software (5)
7	Pattern tables (10)
8	Pattern cutting software
9	Garment mannequin
10	Pattern drawing and cutting tools
11	Heat press machine with temperature controller
12	Others (Japanese ruler, L Square ruler, Curve Stick, Triangular ruler of square set, Measuring tapes, Scissors, Pattern Sheets, Tracing wheels, Paper cutter, Machinery Toolbox)

Labs: Garment & Pattern Lab



Department of Textile Engineering UET Lahore, Faisalabad campus

Pattern Cutting & Drawing Lab



Department of Textile Engineering UET Lahore, Faisalabad campus

Garments Lab

Labs: SEM and Digital Printing Lab

Sr. No	Equipment Name
1	Scanning Electron Microscope
2	Digital printing machine with complete setup (capable of using reactive inks & pigments) suitable for fabric and garment digital printing
3	Bomb Calorimeter (Suitable for measuring calorific value of solid and liquid energy source)
4	Conductivity Meter (For fabric and solutions)

Labs: Textile Computer Lab

Sr. No	Equipment Name
1-34	Computers with following textile related software's along with typical MS office
	Gerber (Garments, pattern making & 2D apparel designing)
	Chemdraw (Textile processing, structure and mechanism of dyes, chemicals and fabrics)
	CLO 3D (Garment, 3D designing with true to life garments visulation)
	DB weave (Weaving, fabric design and modeling)
	Minitab ()Spinning and other textile data analysis
	Texgen (Weaving and fabric designing)

Labs: Textile Waste Recycling Lab

Sr. No	Equipment Name
1	High Temperature Two Zone Furnace with Gas Feeding
2	Scrubber
3	Collection & reaction chamber with controlled environment
4	Aspirator
5	Pulverizer
6	Mortar and pestle
7	Digital fine balance
8	Others (Composite molds, pH strips, glassware, range of chemicals)
9	Colorimeter
10	Digital vernier caliper
11	Digital micrometer