



# Institute of Textile Technology, Choudwar

(An Autonomous Government Engineering College)

WELCOME TO INSTITUTE OF TEXTILE TECHNOLOGY, CHOUWAR

## Facilities

The Institute Campus spreads over a patch of 15 acres of lands by the side of NH-42 in "CHOUDWAR". The Institute has its own Administrative Building, Workshop sheds, Hostel building for Boys and Girls, Staff Quarters, Medical Centre, Doctor's Residence, Play ground etc.

### LABORATORY FACILITIES :

1	Chemistry Laboratory	2	Physics Laboratory
3	Mechanical Workshop	4	Electrical Workshop
5	Electrical & Electronics Laboratory	6	Microprocessor Laboratory
7	Computer Centre	8	IT Centre
9	Chemical Testing Laboratory	10	Spinning Shop
11	Weaving Shop	12	Physical Testing Laboratory
13	Textile Design Laboratory	14	Garment Design Laboratory
15	Man-made Fiber Laboratory	16	Textile Chemistry Laboratory
17	Dye House	18	Colour Matching Laboratory

Besides, Institute avails the infrastructure facilities of nearby Textile Mills to impart adequate training to the students as and when required.

### Major Laboratory Equipments : -

The institute is well equipped with the following sophisticated machinery/ Equipments in addition to the common equipments required for Syllabus.

#### Physical Testing Lab:

- Zwick Universal strength tester
- Star evenness tester
- Keisokki evenness tester
- Multi-lea strength tester
- Instron strength testing M/c
- Low Volume Instrument for cotton fiber testing
- Autosorter
- Pilling Tester
- Wrap Reel,
- Knowl Balance ,

- Beesley Balance ,
- Lea Strength Tester,
- Single yarn Strength Tester,
- Electronic Twist Tester,
- Fabric Abrasion Tester,
- Fabric Tensile Strength Tester,
- Fabric Tearing strength Tester
- Drape Meter,
- Bursting Strength Tester,
- Hairiness Tester,
- Crease Recovery Tester,
- Stiffness Tester,
- ATIRA Fineness Tester,
- Baersorter,
- Hot air oven

**Spinning Lab:**

- H.P. Carding,
- Miniature Carding M/c
- L/R Draw Frame
- LR Speed Frame
- LR Ring Frame,
- Texmaco High Spin Ring Frame
- supper Doubler,
- Fancy Doubler,
- Rotor Spinning
- Reeling M/c.
- Stapler Cutter

**Weaving Lab:**

- Air-jet Loom

- Tape Loom
- Cimco Drop-box Loom
- Circular Vest Knitting M/c
- Circular socks Knitting M/c
- Plain Loom
- Highspeed Winding M/c
- Sectional Warping M/c x
- Pirn Winding M/c
- Up- Twister

**Textile Chemistry Lab:**

- Jigger
- Winch
- Padding-mangle
- Curing Chamber Stenter
- Hank Merceriser
- Computer Colour Matching System (Macbeth)
- Light Fastness Tester,
- Cork Meter,
- Shrinkage Tester,
- H.T./H.P. dyeing M/c ,
- Flammable Tester,
- Ultrasonic Bath ,
- Beaker Dyeing M/c ,
- Rotadyer ,
- Steamer,
- Water vapour Permiability Tester,
- Spectra Vision ,
- Specimen cutting Press

**Man-made Fibre Lab:**

- Polarising Microscope.
- Draw Texturing Machine/-D-700
- Fibre Section Kit.

**Mechanical Engineering Lab:**

- Model 2/4 Stroke Petrol engine.
- Model 2/4 Stroke Diesel Engine.
- Babcock & Wilcox Boiler
- Vertical Boiler
- Gear Drive

**Workshop :**

- Tools used in Carpentry , Blacksmith and Fitting Sections,
- Vertical Drilling M/c
- Grinding M/c
- Wooden Lathe
- Hydraulic Press
- Electrical Arc Welding M/c
- Power Saw

**Electrical Lab :**

- AC and DC Motors, DC Generators, Motor Starters, Transformers etc
- Signal Generators, Cathode Ray Oscilloscope
- Ammeter, Voltmeter, Wattmeter, Energy meter, Frequency meter, p.f. Meter

**Electronics Lab :**

- Trainer Board for colour coding for different types of Resistors
- Trainer Board for colour coding for different types of Capacitors
- Trainer Board for types of Semiconductor Devices
- Diode Circuit Configurations
- Transistor Characteristic Trainer Kit
- LED Trainer Board
- Trainer Board for Shift Registers

- Trainer Board for counters
- Trainer Board for flip-flops
- Amplitude Modulator kit
- Phase Modulator kit
- 8085 Microprocessor Trainer kit

**Applied Electronics Lab :**

- Different temperature gauges
- Different pressure gauges
- Venturi meters
- Nozzles

**Physics Lab :**

- Searle's apparatus
- Static method apparatus.
- Capillary rise apparatus.
- Bar pendulum.
- Stop watch.
- Lee's apparatus ,
- Newton's ring apparatus.
- Sodium Lamp and its Transformer,
- PN junction diode kits.
- BJT kits.
- Sonometer
- Tuning fork,
- RC-circuit kits.
- Spectrometer.
- Grating element.
- Power source kits.

**Chemistry Lab :**

- Oil Bath

- Water Bath
- pH Meter
- Calorie Meter
- Red Wood Viscometer
- Pensky-Marten's Flash Point Apparatus

#### Information Technology Lab:

##### Hardware

1	PC (Compaq EVO-D320)	15 Nos
2	Server (HP-2110)	1 No
3	Laser Printer (HP-2200 DN)	1 No
4	Inkjet Printers (HP-2230)	1 No
5	Flat bed Scanner (HP-2300C)	1 No
6	Sony LCD Projector	1 No
7	UPS (500 VA) with 15 min. backup	16 Nos

##### Software

- 1 Textile Design Software
  - a Wonder Weave – Tex Style
  - b Wonder Weave – Tex Jacquard
  - c Wonder Weave – Tex Print
- 2 Garment Design Software
  - a Tanya Geometric

#### Computer Lab :

Personal Computers – 20 nos. with following soft wares

- Linux/Unix
- DOS
- Windows
- Vi editor
- Shell programming (on unix)
- Directory structures
- File permissions

#### Library :

The Institute has a well versed Library having valuable collection of Nine thousands books i.e. Text Books, Reference Books, Technical Norms Books. Library is also subscribing 20 Nos. International and Indian Journals.

#### Book Bank:

Book Bank facility is also available in the Institute for students.

**Reading Room Facility :**

An well furnished carpet area of 900 sq.ft. with 80 seating capacity is utilized as Reading Room for the study of students, where one copy of each and every books and journals is readily available for the students and faculties. The Reading Room is opened to the users daily from 09.00 a.m. to 09.00 p.m.

**Conveyance Facilities**

The 20 seated Mini Bus of the Institute is exclusively used for the industrial visits of the students to the nearby Industries on week days.

**Hostel Facilities**

The Institute provides adequate accommodation facilities to all the students as per intake strength. There are two hostels inside the campus i.e., Mahanadi for the boys and Rishikulya for the Girls.

**Medical Facilities**

A Dispensary with adequate medical facility is available inside the Institute Campus to look after the health of students regularly. Besides that, Institute Doctor is staying inside the campus and available in any odd times.