



THE TECHNOLOGICAL INSTITUTE OF TEXTILE & SCIENCES

Under UGC Section 2 (f) & 12 (B)
 Estd. in 1943 by Padma Vibhushan Dr. G.D. Birla

Details of Laboratories

S. No.	Name of Laboratory	Department	Physical Location	Subjects taken in the Laboratory	Seating Capacity (No. of Students)
1.	Weaving Laboratory (Conventional)	Textile Technology	Textile Workshop	<ul style="list-style-type: none"> • Weaving Lab–I (LC-TT-204G), • Weaving Lab–II (LC-TT-206G), • Fabric Analysis Lab (LC-TT-207G), • Weaving Practical–V (LE-TT-402G), • Fabric Formation Lab (LC-TC/FAE-204G), • Woven and Knit Design Lab (LC-FAE-301G), • Project Work (Mid Term Evaluation) (PROJ-TT-403G), • Project Work (PROJ-TT-405G), • Mid-term evaluation of project (TT-605), • Dissertation & Viva-Voce (TT-602) 	40
2.	Knitting Laboratory	Textile Technology	Textile Workshop	<ul style="list-style-type: none"> • Weaving Lab–II (LC-TT-206G), • Woven and Knit Design Lab (LC-FAE-301G), • Fabric Formation Lab (LC-TC/FAE-204G), • Project Work (Mid Term Evaluation) (PROJ-TT-403G), • Project Work (PROJ-TT-405G), • Mid-term evaluation of project (TT-605), • Dissertation & Viva-Voce (TT-602) 	40
3.	Modern Weaving Laboratory	Textile Technology	Textile Workshop	<ul style="list-style-type: none"> • Weaving Practical-III (LC-TT-302G), Weaving Practical-IV (LC-TT-306G), Weaving Practical–V (LE-TT-402G), Fabric Formation Lab (LC-TC/FAE-204G), • Project Work (Mid Term Evaluation) (PROJ-TT-403G), • Project Work (PROJ-TT-405G), • Mid-term evaluation of project (TT-605), • Dissertation & Viva-Voce (TT-602) 	40



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4.	Spinning Laboratory	Textile Technology	Textile Workshop	<ul style="list-style-type: none"> • Spinning Lab-I (LC-TT-203G), • Spinning Lab-II (LC-TT-205G), • Spinning Practical-III (LC-TT-301G), Spinning Practical-IV (LC-TT-305G), Spinning Practical – V (LE-TT-401G), Yarn Formation Lab (LC-TC/FAE-203G), • Project Work (Mid Term Evaluation) (PROJ-TT-403G), • Project Work (PROJ-TT-405G), • Mid-term evaluation of project (TT-605), • Dissertation & Viva-Voce (TT-602) 	40
5.	Textile Testing Laboratory	Textile Technology	Textile Workshop	<ul style="list-style-type: none"> • Textile Testing Practical (LC-TT/TC/FAE-303G), • Project Work (Mid Term Evaluation) (PROJ-TT-403G), • Project Work (PROJ-TT-405G), • Mid-term evaluation of project (TT-605), • Dissertation & Viva-Voce (TT-602) 	40
6	Analytical Chemistry Lab	Textile Chemistry	Old Block	<ul style="list-style-type: none"> • Fiber Microscopy & Identification Lab (LC-TT/TC/FAE/202G) • Analytical Chemistry Lab (LC-TC-206G) • Characterization and Evaluation of Dyed & Finished Textiles (LC-TC-305G) • Project Work (PROJ-TC-403G & PROJ-TC-404G) 	15
7	Chemical Processing Lab	Textile Chemistry	Mill Area (Backyard)	<ul style="list-style-type: none"> • Dyeing Lab-I (LC-TC-301G) • Textile Printing Lab (LC-TC-302G) • Dyeing Lab-II (LC-TC-304G) • Project Work (PROJ-TC-403G & PROJ-TC-404G) 	15
8	Computer Colour Matching Lab	Textile Chemistry	Old Block	<ul style="list-style-type: none"> • Technical Analysis Lab (LC-TC-306G) • Color Measurement & CCM Lab (LC-TC-401G) • Project Work (PROJ-TC-403G & PROJ-TC-404G) 	15
9	Preparatory Lab	Textile Chemistry	Old Block	Preparatory Wet Processing Lab (LC-TC-205G)	15



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10	Apparel Construction Lab	Fashion & Apparel Engineering	M.Tech Block	<ul style="list-style-type: none"> • Pattern-making & Apparel Construction-I &II, • Elementary garment manufacturing Lab, • Garment Manufacturing Lab, • PROJECT 	35
11	GMT Lab	Fashion & Apparel Engineering	M.Tech Block	<ul style="list-style-type: none"> • Traditional Indian embroideries & Textiles, • Apparel Design Lab, • PROJECT 	20
12	CAD LAB	Fashion & Apparel Engineering	M.Tech Block	<ul style="list-style-type: none"> • Computer aided Textile designing, • Apparel Design by CAD, • PROJECT 	30
13	HOME-FASHION LAB	Fashion & Apparel Engineering	ADC BLOCK	<ul style="list-style-type: none"> • Woven & Knit design Lab, • PROJECT 	15
14	Lab 1	Computer Engineering	IT Block GF	<ul style="list-style-type: none"> • Operating System Lab, • Project-II, • Python Programming 	30
15	Lab 2	Computer Engineering	IT Block GF	<ul style="list-style-type: none"> • Computer Graphics Lab, • Intelligent System Lab, • Data Base Management System, • Advanced Java Lab, • Data Structure Lab 	35
16	Lab 3	Computer Engineering	IT Block GF	<ul style="list-style-type: none"> • Multimedia Technology Lab, • Operating System Lab, • C++ Lab, • Web Technology Lab, • Computer Graphics Lab, • Data Structure Lab, • Advanced Java Lab, • Project-II 	35
17	Lab 4	Computer Engineering	M.Tech Block	<ul style="list-style-type: none"> • Data Structure Lab, • JAVA Lab, • Neural Network Lab, • Multimedia Technology Lab, • Compiler Design Lab, • Data Base Management System, • Programming In Java 	48
18	Lab 5	Computer Engineering	M.Tech Block	<ul style="list-style-type: none"> • Operating System Lab, • Neural Network Lab, • Intelligent System Lab, • DAA Lab 	32



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19	Lab 6	Computer Engineering	M.Tech Block	<ul style="list-style-type: none"> • Network Programming Lab, • Project-II, • Neural Network Lab 	30
20	Lab 7	Computer Engineering	IT Block FF	<ul style="list-style-type: none"> • BBA/MBA Software Lab 	30
21	Lab 8 / Electronic Software Lab	Computer Engineering	IT Block SF	<ul style="list-style-type: none"> • Digital System Designing Lab, • DSP Lab • Computer Network Lab 	30
22	Lab 9	Computer Engineering	Old Block	<ul style="list-style-type: none"> • Programming for Problem Solving Lab 	30
23	Analog Electronics and Design Lab	Electronics & Communication Engineering	IT Block Ground floor	<ul style="list-style-type: none"> • PCB Lab, • EDC Lab, • Analog Circuit Lab, • Mini Project, • Project Work (Stage-I), • Project Work (Stage-II) 	30
24	Communication Lab	Electronics & Communication Engineering	IT Block First floor	<ul style="list-style-type: none"> • Communication System Lab, • EM Wave Lab, • Wireless Sat.& • Communication Lab, 	30
25	Microprocessor and Interface Lab	Electronics & Communication Engineering	IT Block Second floor	<ul style="list-style-type: none"> • Microcontroller Lab • Microprocessor Lab 	30
26	Basic Electronics Lab	Electronics & Communication Engineering	IT Block Second floor	<ul style="list-style-type: none"> • Digital Electronics Lab, • Control Sys Lab, • N.T Lab 	30
27	Electrical Tech. Lab	Electronics & Communication Engineering	Near Old Store Mill Side	<ul style="list-style-type: none"> • Basic of Electrical Engineering Lab (BEE Lab) 	60
28	Material science	Mechanical Engineering	Near Textile Workshop	<ul style="list-style-type: none"> • Material science, • Engineering Mechanics 	30
29	Fluid Mechanics	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none"> • Fluid Mechanics 	30
30	Fluid Machine	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none"> • Fluid Machine 	30
31	Strength of Material	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none"> • Strength of Material 	30
32	Internal Combustion Engine& Gas Turbine	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none"> • Internal Combustion Engine& Gas Turbine 	30
33	Heat &Mass Transfer	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none"> • Heat &Mass Transfer • Refrigeration and Air-condition 	30



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34	Automobile Engineering Lab	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none">Automobile Engineering	30
35	Kinematics of Machine Lab	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none">Kinematics of Machine LabDynamics of Machine Lab	30
36	Basics of Mechanical Engineering (BME)-LAB	Mechanical Engineering	Near MTech block	<ul style="list-style-type: none">BMESteam Power Generation	30
37	Manufacturing Lab	Mechanical Engineering	Inside Textile Workshop	<ul style="list-style-type: none">Workshop PracticeManufacturing Technology	30
38	Physics Lab	Applied Sciences and Humanities	1st Floor, Old Block	<ul style="list-style-type: none">Introduction to Electromagnetic Theory (IEMT) LabWave Optics & Quantum Mechanics Lab,Semiconductor Physics Lab	30
39	Chemistry Lab	Applied Sciences and Humanities	Ground Floor, Old Block	<ul style="list-style-type: none">Chemistry-1(1st yr.)Qualitative analysis of Organic Compounds (2nd yr.)	24
40	Language Lab	Applied Sciences and Humanities	Ground Floor, Old Block	<ul style="list-style-type: none">English (HSMC-ENG-101-G)Language lab (HSMC-ENG-102G)	28