10. RESOURCE REQUIREMENTS

10.1 Physical Resources

Total Space Requirements

The total space for lecture room, tutorial rooms and drawing halls, various laboratories/workshops may be worked out as per AICTE norms. The following workshops and laboratories are recommended:

i) SPINNING WORKSHOP

- (i) Carding and Draw Frame section; comber section
- (ii) Simplex, ring frame and doubling section (2x70x40 sq.ft)

ii) WEAVING WORKSHOP

(Handloom Section; Winding Section; Warping, drawing-in and Denting Section; Power Loom Section; Fency Weaving and Shuttle less machine section) 2x70x40 sq.ft

iii) WORKSHOP

(Carpentary; Fitting; Machine and Welding) 70x40 sq.ft

- iv) Textile Chemistry Laboratory (2x40x30 sq. ft).
- v) Textile Testing and Quality Control Lab (25x60 sq.ft)
- vi) Computer Laboratory (45x25 sq.ft)
- vii) Designing Lab (2x60x25 sq.ft)

LIST OF EQUIPMENT

Sr.No.	Particulars	Qty.
TEXTILE TESTING AND QUALITY CONTROL		
1.	Projection Microsope	1
2.	Fibre Length Testing Machine	1
3.	Fibre fineness Testing Machine	1
4.	Whirling Hydrometer	1
5.	Electronic Moisture Meter	1
6.	Trash content Analyser	1
7.	Analytical/Chemical Balance	1
8.	Digital Balance.	1
9.	Knowle's Yarn Balance	1
10.	Digital Yarn Count Balance	1
11.	Beasley's Yarn Balance	1

12. 13.		
	Sliver, Roving Measuring Wrapblock	2
4.4	Single Yarn Strength and Count Testing Machine	1
14.	Multilea Tester	1
15.	Ba!listic Strength Tester	1
16.	Yarn Twist Tester	1
17.	Power Driven Wrap reel	1
18.	Fabric Strength Tester	1
19.	Fabric bursting Strength Tester	1
20.	Fabric Abrasion Tester	1
21.	Yam Evenness Tester(Electronic)	1
22.	Crimp Meter	1
23.	Fabric Air Permeability Tester	1
24.	Crease Recovery Tester	1
25.	Pick Glasses	30
26	Power loom fitted with terry mechanism reed space 48"	1
26.	Power loom fitted with terry mechanism reed space 48"	1
	Power loom fitted with jacquared 400 hook Reed Space 48"	1
28.	Reed space 48"	2
29.	Power loom fitted with drop box 4x1 48"	1
30.	Hand.loom 40"	4
31.	Hand loom fitted with jacquard 200' Hooks	1
32.	Sectional Warping Machine with Creel(Creel capacity 208 cones section width)	
	cones section width)	1
33.	Card Cutting Machine Coarse Pitch	
33. 34.	,	1
	Card Cutting Machine Coarse Pitch	1
34.	Card Cutting Machine Coarse Pitch Card Cutting Machine Fine Pitch	1 1 1
34. 35.	Card Cutting Machine Coarse Pitch Card Cutting Machine Fine Pitch Pirn ordinary winding machine 8 spindle	1 1 1 1
34. 35. 36.	Card Cutting Machine Coarse Pitch Card Cutting Machine Fine Pitch Pirn ordinary winding machine 8 spindle Automatic (Hacoba) pirn Winding 4 Spindle	1 1 1 1
34. 35. 36. 37.	Card Cutting Machine Coarse Pitch Card Cutting Machine Fine Pitch Pirn ordinary winding machine 8 spindle Automatic (Hacoba) pirn Winding 4 Spindle Dobby 16 lever Cam Dobby 24 levers	1 1 1 1 1 2
34. 35. 36. 37. 38.	Card Cutting Machine Coarse Pitch Card Cutting Machine Fine Pitch Pirn ordinary winding machine 8 spindle Automatic (Hacoba) pirn Winding 4 Spindle Dobby 16 lever	1 1 1 1 2 1

SPINNING MACHINES

42.	Complete B/R line of 2 to 3 beating points with seutcher	1
	(single process)	
43.	Carding machine (Lab. Model or miniature card preferred)	1
44.	Draw frame (Single or Two delivery D/F)	1
45.	Simplex machine up to 24 spindles	1
46.	Ring frameupto 48 spindles	1
47.	Doubling machine up to 24 spindles	1
48.	Sliver lap machine	1
49.	Ribbon lapmachine	1
50.	Comber	1

COMPUTER LABORATORY

51.	High speed, high memory PC systems of latest version and
	configuration) i 7 processor with 16 GB Ram
52.	Laser Printers (or desk jet coloured Printers)
53.	Scanner (Flat bed coloured)
54.	Graphics slates
55.	Plotters
56.	Networking must be installed
57.	UPS (as per requirement)
58.	CVT (as per the requirement)
59.	Software Required:
	a) Windows (latest)
	b) Corel Draw illustrator, Photoshop
	c) Any software related to Woven/Printed/Embroidered
	designs/for example Ned graphics/Textronics/Wilcome
	DECO STUDIO
	d) MS Office
	e) Graphics Application Software

DYEING AND PRINTING

60	Electric Heather Dyeing bath/water bath	5
61	Physical Balance	2
62	Electric Heater/Hot Plate	2
63	Laboratory Model Drying oven	1
64	Stainless steel glass with ring	50
65	Stainless steel beakers	20
66.	Stainless steel rods	50
67.	Measuring glass cylinders (Cap 500 cc, 250 CC, 100 cc, 50	10
	cc, 10 cc)	
68.	Lab Model hydroextractor machine	1
69.	pH Meter	1
70.	Stainless steel patilas (20 litre cap) Plastic Bucket (20 litre	2
	cap)	
71.	Iron Bucket (20 litre cap)	2
72.	Test Tube Holders	2
73.	Glass tube (Glass)	24
74.	Glass Bottles 250 cc	250
75.	Glass Bottles 500 cc	100
76.	Laboratory model winch dyeing machine	1
77.	Laboratory Model Jigger Dyeing machine	1
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	DESIGNING LAB	
78	Display Board 72"x36inches	5
79	Drawing Boards Medium Size	20
80	Tracing Table with glass 40"x30"x30"	5
81	Study tables with box required for rawing purpose	
	a) T able32x26x24	20
	b) Stools	18
82	LCD TV (with USB) and CPU (wi-fi)	1

10.2 Human Resources

Weekly work schedule, annual work schedule, student-teacher ratio for various group and class size, staffing pattern, work load norms, qualifications, experience and job description of teaching staff, workshop staff and other administrative staff may be worked out as per norms and standards laid down by AICTE. The website www.aicte.ernet.in may be referred for downloading current norms and standards pertaining to technician courses.