10. RESOURCE REQUIREMENTS

10.1 Physical Resources

10.1.1. Equipment Requirement:

Sr. No.	Description	Qty			
	Textile Printing and Finishing Lab.				
1	Mechanical stirrers (of different motor H.P.)	4			
2.	Laboratory padding mangle	1			
3.	Laboratory curing chamber	1			
4.	Mini steamer loop ager	1			
5.	Ph meter	1			
6.	Block printing table (wooden/steel)	2			
7.	Screen printing table (Industrial) for hand screen printing	1			
8.	Colour mixing plastic containers	25			
9.	Paste preparation steel mugs of different capacity	20			
10.	Measuring cylinders of different capacity (10 ml, 50 ml, 100ml, 250	10			
	ml, 500ml, 1lt)				
11.	Baby screens	10			
12.	Industrial screen	10			
13.	Flammability tester	10			
14.	Hot plate	2			
15.	Exposure table for making screen with glass top	1			
16.	Computer system (with standard accessories) and software for printing	1			
	designs for making screens				
17.	Stainless steel dye baths (double walled) for dyeing of bigger samples	1			
18.	Steam iron	1			
19.	Simple iron	1			
20.	Electric oven	2			
21.	Dye baths for smaller samples	4			
22.	Rota dyer	1			

24. Transfer printing machine 1 25. Blocks of different types (single colours) (Wooden, metal, casting, pin) 1 each (Wooden, metal, casting, pin) 26. Colour matching cabinet 1 27. C.R.A tester 1 28. Grey scales 1 set 29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42.	23.	Spray guns	2
26. Colour matching cabinet 1 27. C.R.A tester 1 28. Grey scales 1 set 29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45.	24.	Transfer printing machine	1
26. Colour matching cabinet 1 27. C.R.A tester 1 28. Grey scales 1 set 29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge	25.	Blocks of different types (single colours)	1 each
27. C.R.A tester 1 28. Grey scales 1 set 29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47.		(Wooden, metal, casting, pin)	
28. Grey scales 1 set 29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48.	26.	Colour matching cabinet	1
29. Crock meter 1 30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49.	27.	C.R.A tester	1
30. Perspiro meter 1 31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	28.	Grey scales	1 set
31. Electric dryer 2 32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	29.	Crock meter	1
32. Basket centrifuge 1 33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	30.	Perspiro meter	1
33. Semi automatic washing machine 1 34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	31.	Electric dryer	2
34. Squeezes for screen printing (of different sizes) 20 35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	32.	Basket centrifuge	1
35. Electric balance 1 Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	33.	Semi automatic washing machine	1
Textile Dyeing Lab 36. High Temperature high pressure water bath beaker dyeing machine 1 37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	34.	Squeezes for screen printing (of different sizes)	20
36. High Temperature high pressure water bath beaker dyeing machine 37. Glycerin bath beaker dyeing machine 1 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 1 41. Laundrometer 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 47. Electronic balance 48. Hot plates 5 5 49. Semi automatic washing machine 1 1	35.	Electric balance	1
37. Glycerin bath beaker dyeing machine 1 38. Dye baths 15 39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	Textile Dyeing Lab		
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39. Laboratory jigger 1 40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	37.	Glycerin bath beaker dyeing machine	1
40. Laboratory winch 1 41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	38.	Dye baths	15
41. Laundrometer 1 42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	39.	Laboratory jigger	1
42. Padding mangle 1 43. Hank dyeing machine 1 44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	40.	Laboratory winch	1
43. Hank dyeing machine 44. Rota dyer 45. Basket centrifuge 46. Wrap reel 47. Electronic balance 48. Hot plates 49. Semi automatic washing machine 1	41.	Laundrometer	1
44. Rota dyer 1 45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	42.	Padding mangle	1
45. Basket centrifuge 1 46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	43.	Hank dyeing machine	1
46. Wrap reel 4 47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	44.	Rota dyer	1
47. Electronic balance 2 48. Hot plates 5 49. Semi automatic washing machine 1	45.	Basket centrifuge	1
48. Hot plates 5 49. Semi automatic washing machine 1	46.	Wrap reel	4
49. Semi automatic washing machine 1	47.	Electronic balance	2
	48.	Hot plates	5
50. Refrigerator 1	49.	Semi automatic washing machine	1
	50.	Refrigerator	1

52. pH meter (electronic) 1 53. Measuring cylinders of different capacity (10ml, 50ml, 100ml, 250ml, 500ml, and 11t) 5 each 54. Stainless steel glasses for dye baths 50 55. Electric oven 2 56. Colour mixing containers of plastic and steel (mugs) 20 each 57. Glass rods 200 58. Grey scale (set) 1 Computer Colour Matching Lab and Textile Chemical Testing Lab 59. Computer system (with standard accessories) with software for colour matching 1 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 <th>51.</th> <th>Analytical balance</th> <th>6</th>	51.	Analytical balance	6		
500ml, and 1lt) 54. Stainless steel glasses for dye baths 50 55. Electric oven 2 56. Colour mixing containers of plastic and steel (mugs) 20 each 57. Glass rods 200 58. Grey scale (set) 1 Computer Colour Matching Lab and Textile Chemical Testing Lab 59. Computer system (with standard accessories) with software for colour matching 1 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72.	52.	pH meter (electronic)	1		
54. Stainless steel glasses for dye baths 50 55. Electric oven 2 56. Colour mixing containers of plastic and steel (mugs) 20 each 57. Glass rods 200 58. Grey scale (set) 1 Computer Colour Matching Lab and Textile Chemical Testing Lab 59. Computer system (with standard accessories) with software for colour matching 1 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester	53.	Measuring cylinders of different capacity (10ml, 50ml, 100ml, 250ml,	5 each		
55. Electric oven 2 56. Colour mixing containers of plastic and steel (mugs) 20 each 57. Glass rods 200 58. Grey scale (set) 1 Computer Colour Matching Lab and Textile Chemical Testing Lab 59. Computer system (with standard accessories) with software for colour matching 1 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 <		500ml, and 1lt)			
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57. Glass rods 200 58. Grey scale (set) 1 Computer Colour Matching Lab and Textile Chemical Testing Lab 59. Computer system (with standard accessories) with software for colour matching 1 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	55.	Electric oven	2		
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59. Computer system (with standard accessories) with software for colour matching 60. Spectrophoto meter compatible with the computer for e.g. colour scan 61. Colour matching cabinet 62. Grey scale set (for fading and fastness) 63. Crock meter 64. Perspiro meter 65. Air conditioner 66. Lea strength tester 67. Cloth strength tester 68. Wrap reel 69. Quadrant balance 70. Beesley balance 71. C.R.A. tester 72. Pilling tester 73. Twist – Detwist tester 74. Bursting strength tester 75. Decompary of the strength tester 76. Twist – Detwist tester 77. Twist – Detwist tester 78. Bursting strength tester	58.	Grey scale (set)	1		
matching 60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	Computer Colour Matching Lab and Textile Chemical Testing Lab				
60. Spectrophoto meter compatible with the computer for e.g. colour scan 1 61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	59.	Computer system (with standard accessories) with software for colour	1		
61. Colour matching cabinet 1 62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1		matching			
62. Grey scale set (for fading and fastness) 1 63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	60.	Spectrophoto meter compatible with the computer for e.g. colour scan	1		
63. Crock meter 1 64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	61.	Colour matching cabinet	1		
64. Perspiro meter 1 65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	62.	Grey scale set (for fading and fastness)	1		
65. Air conditioner 1 66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	63.	Crock meter	1		
66. Lea strength tester 1 67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	64.	Perspiro meter	1		
67. Cloth strength tester 1 68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	65.	Air conditioner	1		
68. Wrap reel 1 69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	66.	Lea strength tester	1		
69. Quadrant balance 1 70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	67.	Cloth strength tester	1		
70. Beesley balance 1 71. C.R.A. tester 1 72. Pilling tester 1 73. Twist – Detwist tester 1 74. Bursting strength tester 1	68.	Wrap reel	1		
71.C.R.A. tester172.Pilling tester173.Twist – Detwist tester174.Bursting strength tester1	69.	Quadrant balance	1		
72.Pilling tester173.Twist – Detwist tester174.Bursting strength tester1	70.	Beesley balance	1		
 73. Twist – Detwist tester 74. Bursting strength tester 1 	71.	C.R.A. tester	1		
74. Bursting strength tester 1	72.	Pilling tester	1		
	73.	Twist – Detwist tester	1		
75. Tearing strength tester 1	74.	Bursting strength tester	1		
	75.	Tearing strength tester	1		

10.1.2 Space Requirement:

Norms and standards laid down by All India Council for Technical Education (AICTE) may be followed to work out space requirement in respect of class rooms, tutorial rooms, drawing halls, laboratories, space required for faculty, student amenities and residential area for staff and students.

10.1.3 Furniture Requirement

Norms and standards laid down by AICTE be followed for working out furniture requirement for this course.

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 and supporting staff be worked out as per norms and standards laid down by the AICTE