

1053 - TEXTILE SCIENCE									
Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)				
Lectures	Practical	Credit			Theory		Practical Ex.	Total	
3	1	4	25	25	3 Hrs	100	-	150	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
Nil		GAT		75	25	100	-	-	100

Rationale: The course aims at giving knowledge to the student on identifying various fabrics and yarns and a brief study on the various finishes that are given to fabrics.

COURSE CONTENTS		Hrs	Mks
1. YARN CONSTRUCTION		12	30
Spinning by hand and machine, size and count of yarn, single yarn, ply-yarn, novelty yarns, monofilament, multi-filament and staple yarns.			
2. TEXTILE FIBERS		12	20
Identification of textile fibres by lab process. Non technical tests - Feeling test, burning test. Technical tests - Microscopic test, chemical test.			
3. FABRIC FINISHES		24	50
Converting grey goods kinds of finishing processes preparatory processes - singeing, gassing, bleaching, stabilizing process - mercerizing, shrinking fulling, tentering, crabbing. Textural processes. Temporary & permanent stiffening weighting, calendering, glazing schreinerizing, embossing, moiring, beetling, raising, and napping, sanding, shearing, crepe and crinkled effects. Functional finishes shape retentive, wrinkle resistant, wash & wears permanent press, water repellency, water proofing, and absorbency, flame retardant, moth-proofing mildew proofing antibacterial, antistatic, dyeing and printing.			
Total		48	100

PRACTICALS

1. Practical work shall consist of identification of different yarns
2. Practical work includes carrying out the tools to identify the various Fibers
3. Samples different finishes shall be collected and identified.
4. Field visit shall be arranged, one of which to Khadi-board. Suitable video tapes to be screened.

REFERENCE BOOKS

1. Dictionary Of Textiles - Prof V. A. Shenai & Dr. Mahesh M. Sarf Sevak Publications
2. Textile Fabrics & Their Selection Isabel B. Wingate June F Mohler
3. Techniques Of Bleaching & Mercerising - Prof V. A. Shenai Sevak Publications, 306 Srithanan Ind. Est. G.D. Ambedkar Rd Wadal, Mumbai - 31
4. Technology Of Textiles Processing Textile Fibres Dr. V.A.Henai Sevek Publications, 306, Shri Hanuman Industrial Esta, G.D. Ambedkar Marg, Wadala, Mumbai - 31
5. 5000 Years Of Textiles By Jennifer Harris

