

HANDLOOM DYEING COURSE

DETAILED SYLLABUS

Chapter Name	Duration (Hours)	
	Theory	Lab
Chapter 1 – Fibre Morphological and Dyeing Parameters	3	3
1.1. Identification of textile fibres 1.2. Basic parameters viz. shade percentage, exhaustion percentage, percentage expression and effect of M:L ratio. Process conditions (Effect of electrolyte, Time, Temperature and pH etc.) and functions of chemical used. dyeing machinery.		
Chapter 2 – Desizing, Scouring and Bleaching	2	6
2.1 Desizing objective, starch based size by hydrolytic and oxidative desizing, desizing of synthetic size, merits and demerit of each method. 2.2 Scouring objective, different methods, defects and remedies. 3.1 Bleaching with calcium hypochlorite, sodium hypochlorite, hydrogen peroxide, use of blueing and optical brightening agents. Evaluation of bleaching, damages and defects.		
Chapter 3 – Dyeing on cotton	2	6
3.2 Dyeing – objective – general theory of dyeing – classification of dyes based on their mode of application – procedure for application of direct dyes, vat dyes, solubilised vat dyes, azoic dyes, sulphur dyes and reactive dyes on cotton		
Chapter 4 – Dyeing of Silk	2	6
4.1 Pre-treatment of silk: degumming and desizing 4.2 Dyeing of silk: dyeing properties – dye classes: acid and metal complex dyes, reactive dyes, other dye classes – dyeing and after treatment of pure silk 4.3 Fundamentals of silk finishing, after treatment for improving wet fastness properties, causes and possibilities of faults		
4.4 Soft Skills <ul style="list-style-type: none"> • Verbal/ Non-verbal communication • Interview skills • Professional/social etiquettes • Professional correspondence/ English 		