

TEng3172: PRETREATMENT OF TEXTILES PRACTICAL

Department of Textile Engineering Wollo University				
Course Number	TEng3172			
Course Title	Pretreatment of Textiles Practical			
Degree Program	B. Sc. In Textile Engineering			
Module	17: Textile Wet Processing I			
Module Coordinator	N.N.			
Lecturer	N.N.			
ECTS Credits	3			
Contact Hours (per week)	Lecture	Tutorial	Laboratory or Practice	Home study
	0	0	6	0
Course Objectives & Competences to be Acquired	<p>At the end of the course the students will be able to:</p> <ul style="list-style-type: none"> Know the practical aspect of pretreatment chemical processing of textile materials Understand the principles of some of the textile finishing operations in practice Know the types of machineries and processing methods used in preparatory of textile materials Understand the principle of operation and mechanisms of the different machines used in preparatory of textile materials 			
Course Description/ Course Contents	<p>Desizing of Cotton Fabric</p> <p>Acid Desizing, Oxidative Desizing and Enzymatic Desizing</p> <p>Scouring of Cotton Fabric</p> <p>Bleaching of Cotton Fabric</p> <p>Bleaching with Chlorine based Bleaching agents</p> <p>Bleaching with Hydrogen Peroxide</p>			

	<p>Combined Pretreatment Process of Textile Materials</p> <p> Combined Desizing/Scouring</p> <p> Combined Scouring/Bleaching</p> <p> Single stage Desizing/Scouring/Bleaching</p> <p>Pretreatment Process of Yarns</p> <p>Mercerization of Cotton</p> <p> Tension Mercerization</p> <p> Slack Mercerization</p> <p>Practical Work on Preparation of Wool and Silk Textiles</p> <p>Practical Work on Synthetic Fibre Textiles and their Blends</p>
Pre-requisites	Teng 2112
Semester	2 nd Semester 3 rd year
Status of Course	Compulsory
Teaching & Learning Methods	Explanation of the basic principles in each of the practical work followed by demonstration; actual practical work to be carried out by the students under close supervision of the instructor(s)
Assessment/ Evaluation & Grading System	<p>Lab Records: 30 %</p> <p>Written Lab Examination: 40 %</p> <p>Demonstration / Defense: 30 %</p> <p>Total 100 %</p>
Attendance Requirements	100% attendance during lab/practical class sessions
Literature	1. S.R. Karmakar: Chemical Technology in the Pretreatment Processes of Textiles, 1999.