

WOLLO UNIVERSITY



Kombolcha Institute of Technology Cutting technology Course guide book

A. Basic information

Title of course: cutting technology		Course Manager: Selam Enawgaw		
Course Code: LENG 3123		Office Location:		
Module Name: foot wear production		Consultation Hours:		
ECTS Credits: 6		Email: selamenawgaw6@gmail.com		
Target Group Leather Engineering Year III /Semester II		Mobile: 0918558596		
Lecture Hours & Days				
	Lecture	Tutorial	Practice or Laboratory study	Home study
Days	Tuesday		Friday	
Hours	2		6	2
Room	CR1321		Leather lab	

B. Course description

This course attempts to introduce the fundamental concepts of method of leather selection, calculation of profit/loss on the purchase of leather, random physical tests on leather, leather bundling and storage. Students are expected to understand about the cutter's ticket and perform the cutting of corrected grain, goat/sheep, nubuck/suede leathers and fabrics. Students will also be taught about different types of quality check points and report generation during cutting

C. Course Objectives & Competences to be Acquired

After Completion of the course, the students will be able to:

- Cut the different paper exercises according to standards
- Make hand cutting knife blade on grinding machine
- Cut the different vinyl exercises according to standards
- Know the operating procedure, parts & functions of Swing Arm machine
- Know the method of die storage and different types of dies used for making footwear
- Operate splitting machine and its parts & functions
- Explain about the C.G. leather. Parts, quality areas, line of tightness & stretch in Hide/Side
- Explain about the leather grading system, purpose, different methods of leather grading, purchase cost variance calculation etc.
- Random physical test on leather, sorting, bundling and storage.
- Know about the cutter's ticket
- Perform cutting the Corrected Grain leather.
- Perform cutting the Goat/Sheep leather.
- Perform cutting the Nubuck/Suede leather.
- Explain about the types of different fabric materials and their method of cutting.
- Know about the different types of quality check points during cutting and report generation.

Schedule of the course

Weeks	Topics	Practical session	Student activities & Assignments	Reading reference
1 & 2	<p>1. Hand Cutting</p> <p>1.1 Skill of Paper Cutting (CPE)</p> <p>1.2 Blade Making (BM)</p> <p>1.3 Synthetic (Vinyl) Cutting (CVE/CSE)</p> <p>2. Machine Cutting</p> <p>2.1 Press Cutting</p> <p>2.1.1 Parts and function of Clicking Press</p> <p>2.1.2 To set and operate the machine, Safety</p> <p>2.1.3 Types of Clicking Dies</p>	<p>Hand cutting on paper and Synthetic material</p> <p>Different cutting machine and operating system</p>	Assignment 1	handouts

	<p>2.1.4 Die storage and maintenance</p> <p>2.2 Strap Cutting M/C</p> <p>2.2.1 Parts and function of Strap Cutting Machine</p> <p>2.2.2 To set and operate the machine, Safety</p>			
3	<p>3.Splitting Machine</p> <p>3.1 Parts and function of Splitting Machine</p> <p>3.2 To set and operate the machine, Safety</p> <p>4. Stamping Machine</p> <p>4.1 Parts and function of Stamping Machine</p> <p>4.2 To set and operate the machine, Safety</p>			
4	<p>5. Cutting Corrected Grain (Derby and Oxford Layout)</p> <p>5.1 Introduction of C.G. Leather</p> <p>5.2 Parts & Quality Area in Hide /Side.</p> <p>5.3 Line of Tightness Stretch in Hide/Side.</p> <p>5.4 Allowances, Leather Defects, Sizing System.</p> <p>5.5 Layout of Derby (P) +Test.</p> <p>5.6 Layout of Derby (D) +Test.</p> <p>5.7 Layout of Oxford (D) + Test</p>	Oxford shoe layout and cutting		
5	<p>6. Cutting Sheep/Goat Full Grain (Court Shoe Layout)</p> <ul style="list-style-type: none"> • Introduction of Sheep/Goat Skin • Parts & Quality Area in Skin 	<ul style="list-style-type: none"> ➤ Cutting Sheep/Goat Full Grain (Court Shoe Layou ➤ Cutting Nubuck 	Assignment 2	handouts

	<ul style="list-style-type: none"> • Line of Tightness Stretch in Skin • Layout of Court Shoe (P) +Test. <p>7. Cutting Nubuck /Suede (Wing Cap Oxford Layout) 7.1 Introduction of Nubuck/Suede Leather 7.2 Parameters of Cutting 7.3 Nubuck/Suede Leather Layout of Wing Cap Oxford (D)+TES</p>	/Suede (Wing Cap Oxford Layout)	Quiz 1	
6	<p>8. Introduction To Leather Measurement &Grading 8.1 Introduction to Leather Grading 8.2 Purpose and Methods of Leather Grading 8.3 Purchase Cost Variance Calculation 8.4 Paper Measurement & Grading 8.5 Types of Leather Defects , Measurement 8.6 Leather Grading 8.7 Physical Testing of Leather 8.8 Leather Sorting 8.9 Leather Bundling 8.10 Factors of Storage</p>	Grading of leather Identifying defects		Reading material will be given
7	<p>9 Cutting Nubuck/Suede Leather (Wing Cap Oxford) 9.1 Generation of cutter’s ticket and issue of leather 9.2 Cutting 05 pairs of given article (upper & lining)</p>	Lab practical Cutting Nubuck/Suede Leather (Wing Cap Oxford)		Reading material will be given

8	10 Cutting C.G. Leather (Derby/ Toe Oxford) 10.1 Generation of cutter’s ticket and issue of leather 10.2 Cutting 05 pairs of given article (upper & lining)	Cutting C.G. Leather (Derby/ Toe Oxford)	Project	
9&10	11 Cutting Sheep/Goat Leather (Court Shoe) 11.1 Generation of cutter’s ticket and issue of leather Cutting 02 pairs of given article (upper & lining)	Court shoe cutting		
11	12 Cutting Fabric 12.1 Types of Fabric Materials 12.2 Layout of Fabric Material 12.3 Cutting of Fabric Material	Fabric cutting	Quiz 2	
12,13&14	13 Check Cut Components: 13.1 Quality checking, stamping, bundling and packing. 14 Cutting report formats: 14.1 Daily production report 14.2 Daily rejection report 14.3 Daily cut components dispatch report			
15	Project screening			
16	Final examination			

D. Teaching and Learning methods

- Lectures
- Assignments
- Practical

E. Assessment/evaluation systems

The lecture and tutorial parts of the course will each be evaluated separately from and the final marks will be arrived at by giving weight according to the hours allocated to the lectures and tutorial parts. The details are given below:

Lecture part (weight 50%)	lab/practical (weight 50%)
	<i>Practical work 110%</i>
<i>Final examination: 30</i>	<i>Practical work 210%</i>
<i>Quiz 110</i>	
<i>Quiz 2 10%</i>	<i>Practical work 310%</i>
<i>Total = 50%</i>	<i>Assignment20%</i>
	<i>Total = 50%</i>

F. Course Policy: All students are expected to abide by the code of conduct of students of the senate legislation of the respective university throughout this course. Academic dishonesty including cheating, fabrication and plagiarism will not be tolerated and will be reported to the concerned bodies for action.

G. Attendance requirements: Minimum of 90% attendance during lecture hours & 100% attendance during practical hours is mandatory

H. Class rules and regulations:

Cell phone: cell phone MUST be turned off before entering the class as they are disruptive and annoying in the session of the class

Announcement and changes:

You are responsible for all class announcement and changes conveyed by your CR(class representative).all issues discussed in class or derived from other sources (where I provide you to read)may be the subject of assignment or examination question items.

NB. Please try to be on time for a class I will not allow you enter if you are late by more than five minutes

I. Required Reference Books

- Swayam Siddha-FDDI, India:
 - Skill of operating clicking press and strip cutting machine
 - Art of cutting Corrected Grain
 - Art of cutting Kid and Goat
 - The art of cutting Calf and Suede
 - Manuals Written by FDDI, In

J. Approval

Selam Enawgaw

Course manager

signature

Teaching research implementation coordinator

signature

Teaching learning Quality manager

signature