

WOLLO UNIVERSITY



Kombolcha Institute of Technology

Department of Textile Engineering

COURSE GUIDEBOOK	
Program	Regular
Course Information	
Module Name	Garment Production Technology
Module Number	12:
Course Title	Cutting Technology
Course Code	GrEg3123
ECTS	5
Contact hours (per Semester)	Lecture Hrs: 30 Lab Hrs: 0 Tutorial Hrs: 45 Home Study: 75
Course Type	Compulsory
Prerequisite Course Code	----
Academic Year	2012 E.C
Semester	2
Target Group	2 nd Year garment engineering Students
Venue [Class Room]	1315
Mode of Delivery	Lectures and Laboratory/Practical exercises supported by assignments; special emphasis on hands-on experience in all aspects of cutting
Instructor Information	Rahel Genetu, E-mail: rahel_genetu@yahoo.com

COURSE CONTENT

Chapter 1: Introduction to cutting room

- ❖ Operations performed in cutting room
- ❖ Process sequence of cutting room operations
- ❖ Inspection of pieces before spreading

Chapter 2: spreading

- ❖ Spreading Definition
- ❖ Factors affecting spreading process
- ❖ Spreading Modes, Garment modes
- ❖ Nature of fabrics, pattern type
- ❖ Splicing
- ❖ Spreading Methods
- ❖ Spreading Equipments

Chapter 3: marker

- ❖ Marker Making
- ❖ Marker modes
- ❖ Marker types
- ❖ Material utilization

Chapter 4: cut order planning

- Cut order planning
- Parameter required for planning
- Marker Planning
- Lay Planning
- Exercise of Cut order planning

Chapter 5: cutting

- Cutting Definition
- Requirement of cutting
- Cutting machines
- Portable cutting machines
- Stationary cutting machines
- CNC cutting machines
- Special purpose cutting machines Offloading, Ticketing and bundling

Chapter 6: management of cutting room

- ❖ Costs Management in Cutting room
- ❖ Waste Management in Cutting room
- ❖ Cutting Room Capacity Planning

Assessment/ Evaluation & Grading System

- ❖ The Lecture and Lab/Practical parts of the course will each be evaluated separately for 100 % and the final marks will be arrived at by giving weights according to the hours allocated to the Lecture and the details are given below:

❖ Lab/Practical parts.

Tests (3): 30 %

Final Examination: 50 %

Assignments 20%

Total 100 %

Lecture Part Lab/Practical Part

Lab/Practical Records: 40 %

Lab/Practical Written Examination: 30 %

Demonstration/ Defense: 30 %

Total 100%

References Materials

1. Rutth E. Glock and Grace I. Kunz (190), Apparel Manufacturing, second edition.
2. Harold Carr and Barbara Latham (1994), The Technology of Clothing Manufacture
3. Apparel Manufacturing Hand Book, Jacob Solinger-1999