



HIDES AND SKINS

COORDINATION

ACADEMIC YEAR

2023-2025

SUBJECT GENERAL INFORMATION

Subject name	HIDES AND SKINS			
Code	2SEM-SUB2			
Typology	2nd semester. Continued evaluation.			
Course number of credits (ECTS)	3			
Type of activity, credits, and groups	<i>Degree</i>	<i>Course</i>	<i>Character</i>	<i>Modality</i>
	<i>Joint Master Degree in Leather Technology</i>	<i>1</i>	<i>Compulsory</i>	<i>Blended learning</i>
Coordination				
University	EGE			
Language	English			

LEARNING OBJECTIVES

1. To have the knowledge of raw hide fibrillar and globular proteins
2. To recognise the structural differences of hides and skins
3. To have the knowledge about putrefaction of raw hides and skins, conservation methods
4. To have the knowledge about hides and skins defects and standards of raw skins
5. Analyse the variables that affect the leather quality.

LEARNING OUTCOMES

Basic

CB6 Possess and understand knowledge that provides a basis or opportunity to be original in the development and / or application of ideas, often in a research context.

CB10 That students have the learning skills that allow them to continue studying in a way that will be largely self- directed or autonomous.

General

CG3. Research, develop and innovate.

Specific

CE1 Analyse the different raw materials, intermediate and final products in the leather manufacturing process

CE11. Apply the necessary legislation in the field of leather engineering.

SUBJECT CONTENT

1. RAW HIDE, RAW HIDE SOURCES, CONSERVATION OF HIDES AND SKINS

L1.1 Introduction of the Course: Content, Importance, Rules, and Requirements

Definition of raw hide, raw hide sources, presence of animal in Turkey and the World, leather production

Slaughter and flay of animals, important aspects, mistakes, and the effect on leather quality.

L1.2 Conservation of Hides and Skins

What is conservation, importance, preparation of raw hides for conservation, conservation methods, effective factors on conservation, conservation mistakes.

2. HISTOLOGICAL, FIBRILLAR, STRUCTURAL PROPERTIES

L2.1 Histological structure of raw hide

L2.2 Fibrillary structure of leather

L2.3 Structural properties of skins

L2.4 Structural properties of fur leathers and reptile animal's leathers

3. GENERAL COMPOUNDS OF RAW HIDE, GLOBULAR PROTEINS

L3.1 General compounds of raw hide

Proteins, wool, hair, lipid, and others

L3.2 Properties of collagen and importance in terms of leather industry

L3.3 Properties of elastin, reticulin, keratin and other globular proteins of raw hide.

4. DEGRADATION OF RAW HIDE, QUALITY ASSESMENT OF RAW HIDES

L4.1 Degradation of raw hide, factors causing the degradation, bacteria and fungus

L4.2 Factors effecting the quality of raw hides

L4.3 Classification, packaging and storing of raw hides

METHODOLOGY

THEORY CLASSES

Expository lectures: by the teacher, with the explanation of concepts, materials and work plan. Support.

Material: Course notes and relevant bibliography.

EVALUATION

Exam 1 20%

Exam 2 35%
