



## INTRODUCTION TO TECHNOLOGY OF LEATHER FINISHING

### COORDINATION

BACARDIT DALMASES, ANNA

### ACADEMIC YEAR

2023-2025

### SUBJECT GENERAL INFORMATION

Subject name	INTRODUCTION TO TECHNOLOGY OF LEATHER FINISHING			
Code	1SEM-SUB4			
Typology	1st semester. Continued evaluation.			
Course number of credits (ECTS)	6			
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	BACARDIT DALMASES, ANNA			
University	UdL			
Language	English			

## LEARNING OBJECTIVES

1. Design what is the completion of a finish and what goals it has.
2. Define the factors that must be taken into account when finishing.
3. Recognize the different types of products that are used in finishing and how they have to be mixed to obtain different properties and characteristics that define the finished leather.
4. To develop a general finishing formulation.

## 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.

CB7 That students have the learning skills that allow them to continue studying in a way that will be largely self- directed or autonomous.

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### General competitions

CG3. To investigate, develop and innovate.

### Specific competences

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

CE2 Analyse, apply and project the main unit operations and the systems that make up the leather manufacturing process

CE5 Identify the main industrial processes of leather manufacturing in its three phases: beamhouse, tanning and post-tanning and finishing.

## SUBJECT CONTENT

1. Introduction
  
2. Products used in leather finishing
  - 2.1 Pigments
  
  - 2.2 Dyes
  
  - 2.3 Binders and resins
  
  - 2.4 Cross linkers
  
  - 2.5 Auxiliary products
  
3. General considerations of the finish and its requirements
  - 3.1 Adhesion
  
  - 3.2 Flexibility
  
  - 3.3 Stability
  
  - 3.4 Resistance to water and solvents
  
  - 3.5 Behaviour of finishing on bending
  
  - 3.6 Effect of the particle size
  
  - 3.7 Film forming mechanism
  
  - 3.8 Optical effect of finishing
  
4. Physicochemical aspects of pre-bottoms and impregnations
  - 4.1 Surface tension
  
  - 4.2 Viscosity

- 5. General formulation.
  - 5.1 Dyeing
  - 5.2 Pre-bottom / impregnation
  - 5.3 Basecoat
  - 5.4 Intermediate coats and tops

## METHODOLOGY

- 1. MASTER CLASSES.
- 2. PRACTICES.
- 3. GROUP WORK.
- 4. CASE STUDY
- 5. CONFERENCES
- 6. WRITTEN WORK.

## EVALUATION

Exercises	10%
Study case resolution	10%
Practices report	10%
Written test	50%
Company visit	10%
Tutor's report	10%