

COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	INDUSTRIAL ECONOMIC ENGINEERING

I. Course Name: **METROLOGY IN TEXTILES AND LEATHERWORKS**

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
	4	4	2	-	2	-

III. Course coordinator (title, name, surname, e-mail):

SECAN CRISTINA, cris_secan@yahoo.com

IV. Course objectives

- Familiarization of students with basic concepts and basics in the field of textiles-leather;
- Acquiring skills in understanding processes and phenomena.

V. Course content	No. of hours
V.1. Lecture (chapters/subchapters and paragraphs)	
General considerations regarding quality control of textile materials	2
Measurement methods. Measurement errors	6
Conditioning of samples. Study of tensile properties of textile materials	4
Methods and devices for determining yarn twist Determination of puncture resistance Determination of resistance to repeated flexing	6
Laboratory tests for time-dependent behavior under compression Determination of crease recovery Determination of tear resistance	6
Methods and devices for determining structural and appearance characteristics of yarns	2
Methods for studying yarn hairiness	2
V.2. Laboratory/Seminar/Project: Analyses and tests on yarns. Identification of textile fibers / Analyses and tests on yarns. Identification of textile fibers. / Determinarea densității de lungime a semifabricatelor și firelor textile / Determination of actual moisture content of yarns / Determination of yarn twist, doubling and cabling / Determination of yarn uniformity and defects / Determination of breaking load and elongation of yarns / Determination of yarn irregularity / Materials used in leather goods industry/. Samples and test specimens for physical/mechanical tests / Tensile behavior of leathers and substitutes / Compression behavior of leathers and substitutes / Determination of tear resistance a pielii / Determination of tear resistance a pielii	28

VI. Bibliography

1. C. Preda, Metode și aparate pentru controlul calității materialelor textile destinate confecționării produselor de îmbrăcăminte, Iași, 1996.
2. M. Niculaiasa, Metode și aparate pentru controlul calității produselor în filatură, U.T., Gh. Asachi”, Iași, 1989.
3. O. Malcomete, Fibre textile, U.T., Gh. Asachi”, Iași, 1995.
4. Harpa Rodica, Metrologie în textile-pielărie, Aplicații ale proceselor de măsurare, Ed. Performantica, Iași 2008.

4. Secan Maria Cristina, Metrologie în textile-pielărie, Colecție de aplicații practice, 2022.
5. Liliana Indrie, Dorina Camelia Ilieș, Zlatin Zlatev, Grigore Vasile Herman, Cristina Secan and Jan A. Wendt, *Rare Romanian Ethnographic Textiles—Reverse Engineering of Fabrics for Fashion Trends ElSayed A. Elnashar, Sustainability, 2022.

VII. Grading criteria

Activities	Assesment	% of final grade
Exam	Written exam: 1. Requirements in order to get the minimum grade for passing the exam 2. Requirements for the maximum grade in exam:	10 subjects, of which 5 are made for the minimum grade, and 10 for the maximum grade.
Seminar/Laboratory/Project		Project presentation

VIII. Learning outcomes:

Course coordinator,
SECAN CRISTINA