

COURSE SYLLABUS

University	UNIVERSITY OF ORADEA
Faculty	FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT
Study program*	KNITTING AND GARMENT TECHNOLOGY

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

II. Course Details

		No of hours/week				
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI 0424	4	5	2	-	3	-

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

V.1. Lecture (chapters/subchapters and paragraphs)

	No. of hours
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./ 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

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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	Wr Written exam: 1. Requirements in order to get the minimum grade for passing the exam 2. Requirements for the maximum gradeitten 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,
Lecturer SECAN CRISTINA
PhD