COURSE SYLLABUS

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

I. Course Name: Computer Aided Design in clothing industry

II. Course Details

	No of hours/week					
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI-0689	VII	5	2	-	2	-

III. Course coordinator (title, name, surname, e-mail): Liliana Indrie, e-mail: lindrie@uoradea.ro

IV. Course objectives

This course focuses on the use of Gemini CAD in pattern design. It enables students to learn the details of pattern construction for important and commonly worn garments, such as skirts and their variations, T-shirts, men's shirts, dress, etc. The course also provides an insight into design features such as pleats, seams, cuffs, and other structural elements.

V. Course content	**No. of hours**
V.1. Lecture (chapters/subchapters and paragraphs)	
1. Gemini Pattern Editor. Design functions list DRAW TOOL mode	2
2. PATTERN mode	4
3. SHAPE TOOL mode	2
4. GARMENT TOOL mode	6
5. GRADING	4
6. MEASUREMENT AND CHECK TOOL mode	4
7. GEMINI CUT PLAN	4
8. GEMINI NEST EXPERT	2
V.2. Laboratory	
1. Construction of basic skirt. Pattern grading	6
2. Construction of circle skirt. Pattern grading	2
3. Construction of 6 panel skirt. Pattern grading	2
4. Construction of T-shirt. Pattern grading	6
5. Construction of a dress without waistline seams. Pattern grading	6
6. Construction of men shirt. Pattern grading	6

VI. Bibliography

1. Brad, R., *Elemente de proiectare a tiparelor*, Editura Universitatii "Lucian Blaga", Sibiu, 2009
2. Ciocoiu, M., Barbu, Ionel: *Inginerie tehnologică textilă asistată de calculator*, ISBN 973 8075-28-9, Editura Performantica Iaşi, 2002
3. **Indrie, Liliana - Indrie, Liliana** – *Proiectare asistată de calculator in confecţii. Note de curs. ISBN 978-606-10-1516-0, Editura Universităţii din Oradea, 2015*
4. Pintilie, E. – *Sisteme CAD pentru confecţii textile*, Ed. Venus, Iaşi, 2005;
5. Pintilie, E., Ciubotaru, G., Avădanei, M. – *Proiectarea confecţiilor textile asistată de calculator*, Ed. Performanica, Iaşi, 2006;
6. Pop, M., *Elemente de teorie şi aplicaţii CAD,* Editura Universităţii din Oradea, 2004
7. *** Manual de utilizare- Gemini CAD: Modulele Gemini Pattern Editor, Gemini Cut Plan Gemini Nest Expert.

VII. Grading criteria

Activities	Assesment	% of final grade
Exam	**Online Exam:** Quizzes 1. **Requirements to obtain the minimum passing grade** For grade 5: at least 5 correct answers. 2. **Requirements to obtain the maximum grade** For grade 10: 10 correct answers.	70%
Seminar/Laboratory/Project	The evaluation of the laboratory activities will be based on students' active participation in discussions.	30%

VIII. Learning Outcomes:

Upon completion of the course, students will be able to:
- operate specialized CAD software used in the apparel industry, with a focus on Gemini CAD systems;
- develop and edit digital clothing patterns by using CAD tools efficiently and accurately;
- generate and adjust marker layouts in Gemini CAD in order to optimize material consumption;
- import, export and manage digital files and technical data within CAD environments for garment production;
- collaborate effectively in the digital workflow of apparel product development;
- apply critical thinking in selecting appropriate CAD tools and digital solutions for garment design and manufacturing processes.
  In sum, the course assignments and practical CAD tasks represent appropriate methods for assessing students' progress in achieving the intended learning outcomes.

Course coordinator,

Assoc.Prof dr. Indrie Liliana