COURSE SYLLABUS

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

I. Course Name: STRUCTURE AND DESIGN OF TEXTILE GARMENTS II

II. Course Details

No of hours/week						
Code	Semester	Credits	Lecture	Seminar	Laboratory	Project
IEMI 0848	6	6	28		28	28

III. Course coordinator (title, name, surname, e-mail): Ş.l.dr.ing. Simon Andreea Anca, anca.simon@yahoo.com

IV. Course objectives

The general objective of the discipline	This discipline is addressed to students in the third year of study, and its purpose is to treat and solve the constructive design of clothing products. By constructive design is meant a complex of works carried out for the realization of the new model which includes research, realization of model sketches, calculation and construction of patterns, finalization of templates, as well as obtaining elements of technical documentation necessary to introduce the new model.
Specific objectives	Associating knowledge, principles and methods specific to the technical sciences of the field to identify and analyze the characteristics of specific products.

V. Course content	No. of hours
V.1. Lecture (chapters/subchapters and paragraphs)	
1. Knowledge of distribution laws and statistical parameters for characterizing anthropometric quantities;	2
2. Laws of correlation of anthropometric quantities and classification of correlations;	2
3. Application of geometric methods to the construction of basic patterns for products with shoulder support;	2
4. Width sizing of details for shoulder support products;	2
5. Defining the line of symmetry of the back and the line of symmetry of the face;	2
6. Drawing the upper contour lines for the products with shoulder support;	2
7. Principles for the construction of the pattern for the classic sleeve from one or two marks;	2
8. Application of geometric methods to the construction of basic patterns for products with waist support;	2
9. Elaboration of the construction of patterns for products of different cuts - raglan cut;	2
10. Construction of patterns for kimono cut products and modified cut products;	2
11. Peculiarities in the design of knitwear and synthetic clothing;	2
12. Particularities in the design of fur and natural leather clothing products; Elements regarding the design of work and protection products;	2
13. Peculiarities in the design of children's clothing and clothing for bodies that deviate from standard conformations;	2
14. Constructive defects in clothing and ways to eliminate them.	2

V.2. Laboratory/Seminar/Project:	
Paper no. 1 Analysis of the form of distribution and variation of anthropometric indicators;	2
Paper no. 2 Construction of the basic pattern for the product - Jacket for women;	2
Paper no. 3 Construction of the basic pattern for the product - Jacket for women - continued;	2
Paper no. 4 Construction of the basic pattern for the product - Men's jacket;	2
Paper no. 5 Construction of the basic pattern for the product - Men's jacket - continued;	2
Paper no. 6 Construction of the basic pattern for the product - Trousers for men;	2
Paper no. 7 Construction of the basic pattern for the product - Men's trousers - continued;	2
Paper no. 8 Construction of the basic pattern for the product - Trousers for women;	2
Paper no. 9 Construction of the basic pattern for the product - Trousers for women - continued;	2
Paper no. 10 Principles of construction of collars for women's and men's clothing;	2
Paper no. 11 Principles regarding the construction of the lapel collar pattern;	2
Paper no. 12 Data necessary for the construction of the basic pattern for the product - Men's overcoat;	2
Paper no. 13 Data necessary for the construction of the basic pattern for the product - Overcoat for women;	2
Paper no. 14 Recoveries.	2

V.3. Project- Constructive design of a clothing product	
1. Presentation of the initial data necessary for the design of the proposed product	2
2. Model analysis - Description of the external shape of the model and specification of constructive features. Establishing the categories of carriers and the dimensional range.	2
3. Establishing the operating conditions of the product and the requirements imposed on raw materials. Choice of raw materials for making the product. Establishing the dimensional parameters necessary for the construction of the patterns.	2
4. Elaboration of the construction of the patterns for the proposed model: Construction of the basic patterns	2
5. Obtaining model patterns, according to its particularities	2
6. Construction of the main templates. Construction of derived templates.	2
7. Grading of patterns: Presentation of the grading method used.	2
8. Calculation of the parameters necessary for the grading operation. Grading the patterns for the proposed model	2
9. Execution of the framing of the templates	2
10. Calculation of specific consumptions.	2
11. Calculation of indices of use of textile surfaces	2
12. Guidelines on the technology of making the proposed model.	2
13. Composition of the hierarchical structures for making the proposed model	2
14. Supporting and grading the project	2

VI. Bibliography

1. BRUBARIU A - Proiectarea îmbrăcămintei , Rotaprint I.P.Iaşi, 1989;
2. MITU S - Bazele tehnologiei confecţiilor textile , Editura Gh. Asachi , Iaşi 1998;
3. HOBLEA Z - Structuri textile. Structura şi proiectarea îmbrăcămintei, Editura Gh. Asachi, Iaşi, 1999.
4. CACOVEANU M. –Proiectarea tiparelor în designul vestimentar. Ed. Clusium 2003
5. FILIPESCU E. – Proiectarea constructivă a modelelor. Editura Gh. Asachi , Iaşi 1998
6. FILIPESCU E., AVADANEI M. – Structura şi proiectarea confecţiilor textile.- Îndrumar de laborator. Ed. Performantica Iaşi 2007

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	
Seminar/Laboratory/Project	Seminar attendance must be at least 80%. Laboratory attendance 100%, active, relevance of the issues raised. Aaboratory attendance 100%, active, conscientiousness, consistency,	

	correctness of calculations.	
Lecture/ Seminar	Written / oral exam	30%
Laboratory	Oral / written examinations, periodic.	30%
Project	Verification and correction of the semester project.	40%

VIII. Learning outcomes:

Knowledge and understanding of basic concepts, theories and methods of the field. Using basic knowledge to explain and interpret process situations associated with the field.

Applying some basic principles and methods in order to solve some typical situations in the field of textile garments.

Use of basic knowledge to explain and interpret the procedures, techniques and methods necessary for the design and manufacture of textiles using tools specific to computer-aided design.

Use of basic knowledge to explain and interpret the procedures, techniques and methods needed to plan, coordinate and monitor textile manufacturing systems.

Use of basic knowledge to explain and interpret the procedures, techniques and methods needed to evaluate and ensure the quality of products and processes specific to the manufacture of garments.

Use of standard criteria and methods for evaluating the quality of some programs / methods / theories.

Application of basic principles and methods for the design of textile garments on aesthetic criteria

Applying basic principles and methods for planning, coordinating and monitoring manufacturing systems.

Course coordinator,
Ş.l.dr.ing. Simon Andreea Anca