

COURSE SYLLABUS

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

I. Course Name: COMPUTER ASSISTED DESIGN IN THE FIELD OF KNITTING

II. Course Details

Code	Semester	No of hours/week				
		Credits	Lecture	Seminar	Laboratory	Project
IEMI-0619	7	6	2	-	3	-

III. Course coordinator (title, name, surname, e-mail): Ş.L.dr.ing. Böhm Gabriella, bohmgaby@gmail.com

IV. Course objectives

Correlation of basic principles, concepts, theories and methods within the discipline with the technological components of textile-leather machinery and machinery; the realization of interdisciplinary connections, as well as the transfer of knowledge specific to the study discipline in the elaboration of the diploma project, as well as in the subsequent professional activity.

V. Course content

	No. of hours
V.1. Lecture (chapters/subchapters and paragraphs)	
1.AutoCAD Graphic Editor	4
General commands used in AutoCAD. Commands for drawing entities: dot, line, arc, circle, polyline, solid, ellipse, rings. Special commands used in AutoCAD: copying, mirroring, moving, multiplication, etc.	4
2.Orders for the representation of knits	4
Orders for drawing knits with basic ties. Orders for drawing glazed knit. Orders for drawing patent knitting. Orders for drawing knitting lines..	4
3. Graphic stations for drawing and programming knitwear	6
Shima Seiki's SDS-ONE graphics station - Main menu. The basic menu. Drawing using working tools.	6
V.2. Laboratory:	
1.Applications to AutoCAD graphic editor	6
2.Representation of knits with basic and derivative ties and combined ties.	12
3. Preparation of knitting programmes on SDS-ONE graphic stations.	15
4.Making knitting programs on M1 PLUS graphic stations	9

VI. Bibliography

Bibliografie	<ol style="list-style-type: none"> 1. Ionescu, D.S., Budulan C. - <i>Proiectarea asistată de calculator în tricotaje</i>, Editura MatrixRom, Bucureşti, 2010 2. C. Budulan. - <i>Proiectarea asistată de calculator în tricotaje</i>, Editura Performantica, Iaşi, 2005 3. Dragomir, D. - <i>Proiectare asistată de calculator</i>, Editura Teora, Bucureşti, 1998 4. Simion I. – <i>AutoCAD 2002 pentru ingineri</i>, Ed. Teora, Bucureşti, 2003 5. Macovei, L. - <i>Tehnologii și utilaje în tricotaje</i> , Editura „Gh.Asachi”, Iaşi, 2002. 6. Dan, D. - <i>Procese și mașini de tricatat (mașini de tricatat automate mecanice)</i>, Editura Performantica, Iaşi, 2005. 7. Mateescu, M. - <i>Tehnologia tricotajelor</i>, Editura didactică și pedagogică, Bucureşti, 1970.
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VII. Grading criteria

Activities	Assesment	% of final grade
Exam	Written exam:	80%

	1. Requirements in order to get the minimum grade for passing the exam: to obtain a grade of 5 (five) all subjects are mandatory in the proportion of 50%. 2. Requirements for the maximum grade: For note 10(ten) all subjects are 100 % mandatory.	
Seminar/Laboratory/Project	100% presence at the laboratory	20%

VIII. Learning outcomes:

- Use of software applications and digital technologies to solve specific tasks for the design and manufacture of knitwear and textile garments.
- Design of knitwear and textile garments and associated technological processes.

Course coordinator,
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