

UNIVERSITY OF ORADEA FACULTY OF ENERGY ENGINEERING AND INDUSTRIAL MANAGEMENT Licence's Degree Program: KNITWEAR AND PRODUCTS TECHNOLOGY Fundamental Field: Undergraduate Field: INDUSTRIAL ENGINEERING Duration of studies / no. of credits: 4 years/240 credits Type of education: Full-time learning (IF)	Valid from academic year 2020-2021 Beginning with 1 st year of study
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CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0001	Linear Algebra, Analytic and Differential Geometry	FD	2	1	-	-	42	Ex	4	58	
IEMI-0418	Technical drawing and computer graphics	FD	3	-	3	-	84	Vp	5	41	
IEMI-0005	Chemistry	FD	2	-	1	-	42	Ex	4	58	
IEMI-0162	Computers programming and programming languages I	FD	2	-	3	-	70	Vp	5	55	
IEMI-0783	Mechanical, resistance of materials	DD	1	1	-	-	28	Vp	3	47	
IEMI-0756	Probability theory and mathematical statistics	FD	2	1	-	-	42	Ex	4	58	
IEMI-0301	Electrotechnics	DD	1	1	-	-	28	Ex	4	72	
IEMI-0784	Modern languages (english) I	CD	-	1	-	-	14	Vp	1	11	
	TOTAL		13	5	7	-	350		30	400	
IEMI-0776	Physical education and sports I	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IEMI-0762	Modern Languages (Spanish I)	CD	-	2	-	-	28	Vp	1	0	
IEMI-0839	History	CD	2	2	-	-	56	Vp	2	0	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0334	Mathematical analysis	FD	2	1	-	-	42	Ex	3	33	
IEMI-0163	Computers programming and programming languages II	FD	1	-	2	-	42	Vp	5	83	
IEMI-0523	Computer Aided Graphics	FD	3	-	3	-	84	Vp	4	16	
IEMI-0146	Mechanisms and Machinery Organs	DD	1	1	-	-	28	Ex	4	72	
IEMI-0004	Physics	FD	2	-	1	-	42	Ex	4	58	
IEMI-0340	Applied informatics	FD	2	-	3	-	70	Ex	6	80	
IEMI-0785	Modern languages (english) II	CD	-	1	-	-	14	Vp	1	11	
	TOTAL		11	3	9	-	322		27	353	
	OBLIGATORII OPTIOALE										
IEMI-0370	General economics	CD	1	1	-	-	28	Vp	3	47	
IEMI-0788	Academic Ethics and Integrity	CD	1	1	-	-	28	Vp	3	47	
	TOTAL		1	1	-	-	28		3	47	
IEMI-0777	Physical education and sports II	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IEMI-0763	Modern Languages (Spanish II)	CD	-	1	-	-	14	Vp	1	11	
IEMI-0678	Philosophy	CD	2	2	-	-	56	Vp	4	44	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
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Year of study II

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0446	Textile fibers	DD	2	-	2	-	56	Ex	6	94	
IEMI-0499	Textile structures-knits	DD	2	-	2	-	56	Ex	5	69	
IEMI-0682	Textile structures-yarn	DD	2	-	2	-	56	Ex	5	69	
IEMI-0766	The basics of the technological project assisted by the computer	DD	2	-	2	-	56	Ex	5	69	
IEMI-0366	Analysis and control of production systems through cost	DD	2	2	-	-	56	Vp	4	44	
IEMI-0152	Management	DD	2	2	-	-	56	Vp	4	44	
IEMI-0786	Modern languages (english) III	CD	-	1	-	-	14	Vp	1	11	
	TOTAL		12	5	8	-	350		30	400	
IEMI-0778	Physical education and sports III	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IEMI-0695	Textile clothing accessories	SD	2	-	2	-	56	Vp	5	69	
IEMI-0696	Painting and printing processes for textiles	SD	2	-	2	-	56	Vp	5	69	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0683	Textile structures-fabrics	DD	2	-	2	-	56	Ex	5	69	
IEMI-0416	Comfort and functions of leather and textile products	DD	2	2	-	-	56	Ex	4	44	
IEMI-0424	Metrology in textile- leather	DD	2	-	2	-	56	Vp	4	44	
IEMI-0768	Primary materials for skin textiles	DD	2	-	2	-	56	Vp	4	44	
IEMI-0840	The bases of processes in Textile Confections I	DD	2	-	2	-	56	Ex	4	44	
IEMI-0842	The bases of Knitting processes I	DD	2	-	2	-	56	Ex	4	44	
IEMI-0787	Modern languages (english) IV	CD	-	1	-	-	14	Vp	1	11	
IEMI-0066	Practice I	DD	-	-	-	-	90	Cv	4	10	
	TOTAL		12	3	10	-	440		30	310	
IEMI-0779	Physical education and sports IV	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IEMI-0844	General engineering in Textiles	DD	2	-	2	-	56	Vp	4	44	

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Year of study III

Code	Disciplines*	Type	Sem. V [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0242	Engineering of Production Systems	SD	2	-	-	2	56	Ex	5	69	
IEMI-0153	Quality management	DD	2	2	-	-	56	Vp	4	44	
IEMI-0841	The bases of processes in Textile Confections II	DD	2	-	1	-	42	Ex	4	58	
IEMI-0843	The bases of Knitting processes II	DD	2	-	1	-	42	Ex	4	58	
IEMI-0847	Structure and confection design I	DD	2	-	1	-	42	Ex	4	58	
IEMI-0498	Structure and design of knitwear	SD	2	-	1	2	70	Vp	5	55	
	TOTAL		12	2	4	4	308		26	342	
	OBLIGATORII OPȚIONALE										
IEMI-0444	Fashion design	SD	2	-	2	-	56	Vp	4	44	
IEMI-0845	Construction and modeling of the clothing	SD	2	-	2	-	56	Vp	4	44	
	TOTAL		2	-	2	-	56		4	44	

Code	Disciplines*	Type	Sem. VI [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IEMI-0848	Structure and confection design II	DD	2	-	2	2	84	Ex	6	66	
IEMI-0701	Design processes in garments	SD	2	-	2	-	56	Ex	4	44	
IEMI-0404	Management information systems	SD	2	-	2	-	56	Ex	5	69	
IEMI-0409	Finishing of textile products	DD	2	-	2	-	56	Ex	4	44	
IEMI-0067	Practice II	SD	-	-	-	-	90	Cv	4	10	
	TOTAL		8	-	8	2	342		23	233	
	OBLIGATORII OPȚIONALE										
	PACHET 1										
IEMI-0698	Artistic creation	SD	2	-	2	-	56	Vp	3	19	
IEMI-0677	Artistic drawing	SD	2	-	2	-	56	Vp	3	19	
	PACHET 2										
IEMI-0022	Company's Economy	SD	2	2	-	-	56	Vp	4	44	
IEMI-0694	Financial Economic Analysis	SD	2	2	-	-	56	Vp	4	44	
	TOTAL		4	2	2	-	112		7	63	

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Code	Disciplines*	Type	Sem. VII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	<i>OBLIGATORII IMPUSE</i>										
IEMI-0612	Processes and machines for clothing I	SD	2	-	2	2	84	Ex	6	66	
IEMI-0616	Processes and knitting machines I	SD	2	-	2	2	84	Ex	6	66	
IEMI-0591	Automation elements for clothing	SD	2	-	2	-	56	Vp	4	44	
IEMI-0689	Computer Assisted Design in the field of the Ready- Made clothes	SD	2	-	3	-	70	Ex	6	80	
IEMI-0518	Elements of automation in knitwear	SD	2	-	2	-	56	Vp	4	44	
	TOTAL		10	-	11	4	350		26	300	
	<i>OBLIGATORII OPȚIONALE</i>										
IEMI-0440	Ergonomics	SD	2	1	-	-	42	Vp	4	58	
IEMI-0428	Time and work study	SD	2	1	-	-	42	Vp	4	58	
	TOTAL		2	1	-	-	42		4	58	

Code	Disciplines*	Type	Sem. VIII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	<i>OBLIGATORII IMPUSE</i>										
IEMI-0613	Processes and machines for clothing II	SD	3	-	2	-	70	Ex	7	105	
IEMI-0617	Processes and knitting machines II	SD	3	-	2	-	70	Ex	6	80	
IEMI-0619	Computer Assisted Design in the field of knitting	SD	2	-	2	-	56	Ex	5	69	
IEMI-0714	Preparing the Graduation Project	SD	-	-	-	4	56	Vp	4	44	
IEMI-0679	Practice for diploma	SD	-	-	-	-	60	Cv	4	40	
	TOTAL		8	-	6	4	312		26	338	
	<i>OBLIGATORII OPȚIONALE</i>										
IEMI-0433	Control and quality assurance in textiles	DD	3	-	3	-	84	Vp	4	16	
IEMI-0432	Control and quality assurance in leatherworking	DD	3	-	3	-	84	Vp	4	16	
	TOTAL		3	-	3	-	84		4	16	

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VIII. DISTRIBUTION OF CREDITS ACCORDING TO COMPETENCES (TABLES NRQHE /ARACIS - Grid 1 *)

No.	Discipline**	Sem.	Number of credits	Professional Competences						Transversal Competences		
				C1	C2	C3	C4	C5	C6	CT1	CT2	CT3
1.	Linear Algebra, Analytic and Differential Geometry	I	4	4								
2.	Technical drawing and computer graphics	I	5	2	1	1						1
3.	Chemistry	I	4	4								
4.	Computers programming and programming languages I	I	5	2		1					1	1
5.	Mechanical, resistance of materials	I	3	2	1							
6.	Probability theory and mathematical statistics	I	4	1	2	1						
7.	Electrotechnics	I	4	1	2	1						
8.	Modern languages (english) I	I	1	1								
9.	Physical education and sports I	I	1	1								
10.	Modern Languages (Spanish I)	I	1	1								
11.	History	I	2	1								
12.	Mathematical analysis	II	3	3								
13.	Computers programming and programming languages II	II	5	1	1	1					1	1
14.	Computer Aided Graphics	II	4	1	1	1						1
15.	Mechanisms and Machinery Organs	II	4	2	1	1						
16.	Physics	II	4	4								
17.	Applied informatics	II	6	2	2	2						
18.	Modern languages (english) II	II	1	1								
19.	Physical education and sports II	II	1	1								
20.	General economics	II	3	2	1							
21.	Academic Ethics and Integrity	II	3	2	1							
22.	Modern Languages (Spanish II)	II	1	1								
23.	Philosophy	II	4								2	2
24.	Textile fibers	III	6	1	3				1			1
25.	Textile structures-knits	III	5	5								
26.	Textile structures-yarn	III	5	5								
27.	The basics of the technological project assisted by the computer	III	5	4	1							
28.	Analysis and control of production systems through cost	III	4	4								
29.	Management	III	4	4								
30.	Modern languages (english) III	III	1	1								
31.	Physical education and sports III	III	1	1								
32.	Textile clothing accessories	III	5		1	1		1	1	1		
33.	Painting and printing processes for textiles	III	5	1	2			1				1
34.	Textile structures-fabrics	IV	5	1	1				2			1
35.	Comfort and functions of leather and textile products	IV	4	2	1						1	
36.	Metrology in textile- leather	IV	4		1				1	1		1
37.	Primary materials for skin textiles	IV	4	2	2							
38.	The bases of processes in Textile Confections I	IV	4	4								
39.	The bases of Knitting processes I	IV	4	4								
40.	Modern languages (english) IV	IV	1	1								
41.	Practice I	IV	4	2	2							
42.	Physical education and sports IV	IV	1	1								
43.	General engineering in Textiles	IV	4	4								
44.	Engineering of Production Systems	V	5	5								
45.	Quality management	V	4	1	1							
46.	The bases of processes in Textile Confections II	V	4	4								
47.	The bases of Knitting processes II	V	4	4								
48.	Structure and confection design I	V	4	4								
49.	Structure and design of knitwear	V	5	5								
50.	Fashion design	V	4	2	2							
51.	Construction and modeling of the clothing	V	4	1	1	1	1					
52.	Structure and confection design II	VI	6	6								

53.	Design processes in garments	VI	4	4								
54.	Management information systems	VI	5	1	1	1	1					1
55.	Finishing of textile products	VI	4	1		1	1					1
56.	Practice II	VI	4	2	2							
57.	Artistic creation	VI	3	3								
58.	Artistic drawing	VI	3	3								
59.	Company's Economy	VI	4	4								
60.	Financial Economic Analysis	VI	4	4								
61.	Processes and machines for clothing I	VII	6	6								
62.	Processes and knitting machines I	VII	6	1	1		1	1	1			1
63.	Automation elements for clothing	VII	4	0.5	0.5	0.5	0.5		1	0.5	0.25	0.25
64.	Computer Assisted Design in the field of the Ready- Made clothes	VII	6	6								
65.	Elements of automation in knitwear	VII	4	2	1				1			
66.	Ergonomics	VII	4		1					1	1	1
67.	Time and work study	VII	4	1		1	1					1
68.	Processes and machines for clothing II	VIII	7	2	2	3						
69.	Processes and knitting machines II	VIII	6	1	1	1				1	1	1
70.	Computer Assisted Design in the field of knitting	VIII	5	5								
71.	Preparing the Graduation Project	VIII	4	4								
72.	Practice for diploma	VIII	4	4								
73.	Control and quality assurance in textiles	VIII	4	3	1							
74.	Control and quality assurance in leatherworking	VIII	4	3	1							

Legendă: C1 ÷ C5 sau C6 - Competențe profesionale; CT1 ÷ CT3 - Competențe transversale

* Se va utiliza Grila 1 (G1) care prezintă variantele: G1L și G1M corepunzătoare ciclurilor de studii de licență și masterat, în conformitate cu Ordinul MECTS nr. 5703 / 18.10.2011.

** Se vor trece toate disciplinele din Planul de Învățământ