

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
 2017-2018
 Beginning with 1st year of
 study

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	62	
IEMI-0418	Technical drawing and computer graphics	FD	3	-	2	-	70	Vp	5	60	
IEMI-0005	Chemistry	FD	2	-	2	-	56	Ex	5	74	
IEMI-0508	Mechanics and Material resistance	DD	2	2	-	-	56	Ex	5	74	
IEMI-0339	Basics of Informatics	FD	2	-	2	-	56	Ex	5	74	
IEMI-0162 I	Computers programming and programming languages	FD	2	-	2	-	56	Vp	5	74	
IEMI-0182	Foreign Language (English) I	CD	-	1	-	-	14	Vp	1	12	
	TOTAL		13	4	8	-	350		30	430	
IEMI-0030	Sports I	CD	-	1	-	-	14	A/R	1	12	
	FACULTATIVE										
IEMI-0176	Second Foreign Language I	CD	-	1	-	-	14	Vp	1	12	
IEMI-0676	Industrial psychology	CD	1	1	-	-	28	Vp	2	24	

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	3	2	-	-	70	Ex	6	86	
IEMI-0163 II	Computers programming and programming languages	FD	1	-	2	-	42	Vp	4	62	
IEMI-0523	Computer Aided Graphics	FD	3	-	3	-	84	Vp	6	72	
IEMI-0146	Mechanisms and Machinery Organs	DD	2	1	-	-	42	Ex	4	62	
IEMI-0369	Fundamentals of economy	FD	2	2	-	-	56	Vp	5	74	
IEMI-0004	Physics	FD	2	-	1	-	42	Ex	4	62	
IEMI-0183	Foreign Language (English) II	CD	-	1	-	-	14	Vp	1	12	
	TOTAL		13	6	6	-	350		30	430	
IEMI-0031	Sports II	CD	-	1	-	-	14	A/R	1	12	
	FACULTATIVE										
IEMI-0713	Artistic painting	SD	2	-	2	-	56	Vp	4	48	
IEMI-0678	Philosophy	CD	2	2	-	-	56	Vp	4	48	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice;
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of departament ,
Assoc.prof. GHERGHEL Sabina

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor Dr.
HORA Cristina Mirela

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
 2017-2018
 Beginning with 1st year of study

CURRICULUM **
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-0336	Mathematical statistics	FD	2	1	-	-	42	Vp	4	62	
IEMI-0693	Basics of computer aided design	DD	2	-	2	-	56	Vp	5	74	
IEMI-0411	Electrotechnics, electronics and automation	DD	2	-	2	-	56	Ex	5	74	
IEMI-0446	Textile fibers	DD	3	-	2	-	70	Ex	6	86	
IEMI-0027	Fundamentals of Management	DD	2	2	-	-	56	Ex	5	74	
IEMI-0547	Foreign Language (English) III	CD	-	1	-	-	14	Vp	1	12	
	TOTAL		11	4	6	-	294		26	382	
	OBLIGATORII OPTIONALE										
IEMI-0242	Engineering of Production Systems	SD	2	-	2	-	56	Ex	4	48	
IEMI-0686	Scheduling and production control	SD	2	-	2	-	56	Ex	4	48	
	TOTAL		2	-	2	-	56		4	48	
IEMI-0032	Sports III	CD	-	1	-	-	14	A/R	1	12	
	FACULTATIVE										
IEMI-0695	Textile clothing accessories	SD	2	-	2	-	56	Vp	5	74	
IEMI-0696	Painting and printing processes for textiles	SD	2	-	2	-	56	Vp	5	74	

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-0424	Metrology in textile- leather	DD	2	-	2	-	56	Ex	4	48	
IEMI-0682	Textile structures-yarn	DD	2	-	2	-	56	Ex	4	48	
IEMI-0499	Textile structures-knits	DD	2	-	2	-	56	Ex	4	48	
IEMI-0416	Comfort and functions of leather and textile products	DD	2	-	2	-	56	Vp	5	74	
IEMI-0683	Textile structures-fabrics	DD	3	-	2	-	70	Ex	6	86	
IEMI-0185	Foreign Language (English) IV	CD	-	1	-	-	14	Vp	1	12	
IEMI-0066	Practice I	DD	-	-	-	-	90	Cv	2	0	
	TOTAL		11	1	10	-	398		26	316	
	OBLIGATORII OPTIONALE										
IEMI-0022	Company's Economy	SD	2	1	-	-	42	Vp	4	62	
IEMI-0684	The economic environment	SD	2	1	-	-	42	Vp	4	62	
	TOTAL		2	1	-	-	42		4	62	
IEMI-0033	Sports IV	CD	-	1	-	-	14	A/R	1	12	
	FACULTATIVE										
IEMI-0697	Hydropneumatic actuators	SD	2	-	2	-	56	Vp	4	48	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice;
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Assoc.prof. GHERGHEL Sabina

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor Dr.
HORA Cristina Mirela

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
 2017-2018
 Beginning with 1st year of
 study

CURRICULUM **
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-0153	Quality management	DD	2	1	-	-	42	Ex	3	36	
IEMI-0650	Elements of Ready- Made Clothes technology I	DD	2	-	2	-	56	Ex	5	74	
IEMI-0653	Elements of knitting works and technology I	DD	2	-	2	-	56	Ex	5	74	
IEMI-0498	Structure and design of knitwear	DD	2	-	2	2	84	Vp	6	72	
IEMI-0625	Textile clothing structure and design I	DD	2	-	2	-	56	Ex	5	74	
IEMI-0584	Control and quality assurance	DD	2	-	1	-	42	Vp	3	36	
	TOTAL		12	1	9	2	336		27	366	
	OBLIGATORII OPȚIONALE										
IEMI-0444	Fashion design	DD	2	-	2	-	56	Vp	3	22	
IEMI-0698	Artistic creation	DD	2	-	2	-	56	Vp	3	22	
	TOTAL		2	-	2	-	56		3	22	

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-0626	Textile clothing structure and design II	DD	2	-	1	2	70	Ex	5	60	
IEMI-0484	Elements of Ready- Made Clothes Technology II	DD	2	-	2	-	56	Ex	4	48	
IEMI-0654	Elements of knitting works and technology II	DD	2	-	2	-	56	Ex	4	48	
IEMI-0404	Management information systems	SD	2	-	2	-	56	Ex	4	48	
IEMI-0409	Finishing of textile products	DD	2	-	2	-	56	Vp	4	48	
IEMI-0067	Practice II	SD	-	-	-	-	90	Cv	2	0	
	TOTAL		10	-	9	2	384		23	252	
	OBLIGATORII OPȚIONALE										
	PACHET 1										
IEMI-0397	Marketing	DD	2	1	-	-	42	Vp	3	36	
IEMI-0601	Environment management	DD	2	1	-	-	42	Vp	3	36	
	PACHET 2										
IEMI-0700	Processes in knitwear design	SD	2	-	2	-	56	Vp	4	48	
IEMI-0701	Design processes in garments	SD	2	-	2	-	56	Vp	4	48	
	TOTAL		4	1	2	-	98		7	84	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice;
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Assoc.prof. GHERGHEL Sabina

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor Dr.
HORA Cristina Mirela

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
 2017-2018
 Beginning with 1st year of
 study

CURRICULUM **
Year of study IV

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					
	OBLIGATORII IMPUSE										
IEMI-0614	Processes and machines for clothing I	SD	3	-	2	-	70	Ex	6	86	
IEMI-0616	Processes and knitting machines I	SD	3	-	2	-	70	Ex	6	86	
IEMI-0591	Automation elements for clothing	SD	2	-	2	-	56	Vp	4	48	
IEMI-0619	Computer Assisted Design in the field of knitting	SD	2	-	3	-	70	Ex	6	86	
IEMI-0518	Elements of automation in knitwear	SD	2	-	2	-	56	Vp	4	48	
	TOTAL		12	-	11	-	322		26	354	
	OBLIGATORII OPȚIONALE										
IEMI-0440	Ergonomics	SD	2	2	-	-	56	Vp	4	48	
IEMI-0428	Time and work study	SD	2	2	-	-	56	Vp	4	48	
	TOTAL		2	2	-	-	56		4	48	

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					
	OBLIGATORII IMPUSE										
IEMI-0615	Processes and machines for clothing II	SD	2	-	2	2	84	Ex	6	72	
IEMI-0617	Processes and knitting machines II	SD	2	-	2	2	84	Ex	6	72	
IEMI-0689	Computer Assisted Design in the field of the Ready- Made clothes	SD	2	-	3	-	70	Ex	5	60	
IEMI-0427	Practice for drafting diploma	SD	-	-	-	5	70	Vp	10	190	
	TOTAL		6	-	7	9	308		27	394	
	OBLIGATORII OPȚIONALE										
IEMI-0690	Communication and Negotiation in business	SD	2	2	-	-	56	Vp	3	22	
IEMI-0694	Financial Economic Analysis	SD	2	2	-	-	56	Vp	3	22	
	TOTAL		2	2	-	-	56		3	22	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice;
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Assoc.prof. GHERGHEL Sabina

RECTOR,
Professor Dr. BUNGAU Constantin

DEAN,
Associate Professor Dr.
HORA Cristina Mirela

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	5	5								
4.	Mechanics and Material resistance	I	5	3		2						
5.	Basics of Informatics	I	5	2		2						1
6.	Computers programming and programming languages I	I	5	2		1					1	1
7.	Foreign Language (English) I	I	1									1
8.	Sports I	I	1									1
9.	Second Foreign Language I	I	1									1
10.	Industrial psychology	I	2							1	1	
11.	Mathematical analysis	II	6	6								
12.	Computers programming and programming languages II	II	4	1		1					1	1
13.	Computer Aided Graphics	II	6	2	2	1						1
14.	Mechanisms and Machinery Organs	II	4	2	1	1						
15.	Fundamentals of economy	II	5	2	1					1	0.5	0.5
16.	Physics	II	4	4								
17.	Foreign Language (English) II	II	1									1
18.	Sports II	II	1									1
19.	Artistic painting	II	4	2								2
20.	Philosophy	II	4								2	2
21.	Mathematical statistics	III	4	4								
22.	Basics of computer aided design	III	5			3	1					1
23.	Electrotechnics, electronics and automation	III	5	3							2	
24.	Textile fibers	III	6	1	3				1			1
25.	Fundamentals of Management	III	5	1	1		2			1		
26.	Foreign Language (English) III	III	1									1
27.	Sports III	III	1									1
28.	Engineering of Production Systems	III	4	2		1					1	
29.	Scheduling and production control	III	4	2		1					1	
30.	Textile clothing accessories	III	5		1	1		1	1	1		
31.	Painting and printing processes for textiles	III	5	1	2				1			1
32.	Metrology in textile- leather	IV	4		1				1	1		1
33.	Textile structures-yarn	IV	4	1	1					1	1	
34.	Textile structures-knits	IV	4	1	1					1	1	
35.	Comfort and functions of leather and textile products	IV	5	2	1	1					1	
36.	Textile structures-fabrics	IV	6	1	1	1			2	1	1	1
37.	Foreign Language (English) IV	IV	1									1
38.	Practice I	IV	2		2							
39.	Sports IV	IV	1									1
40.	Company s Economy	IV	4	1		1					1	1
41.	The economic environment	IV	4	1	1		1			0.5		0.5
42.	Hydropneumatic actuators	IV	4	2	1	1						
43.	Quality management	V	3	1	1				0.5	0.5		
44.	Elements of Ready- Made Clothes technology I	V	5	1	1	1				1	1	
45.	Elements of knitting works and technology I	V	5	1	1		1	1			1	
46.	Structure and design of knitwear	V	6	1,5	1		2			0.5	0.5	0.5
47.	Textile clothing structure and design I	V	5		1	1	1				1	1
48.	Control and quality assurance	V	3					1	1	1		
49.	Fashion design	V	3	1	1	1						
50.	Artistic creation	V	3	1	1	1						
51.	Textile clothing structure and design II	VI	5		1	1	1			1	1	
52.	Elements of Ready- Made Clothes Technology II	VI	4	1	1				1	1		
53.	Elements of knitting works and technology II	VI	4	1	1		1	1				
54.	Management information systems	VI	4	1		1	1					1
55.	Finishing of textile products	VI	4	1		1	1					1
56.	Practice II	VI	2		2							
57.	Marketing	VI	3	1							1	1
58.	Environment management	VI	3		1				1	1		
59.	Processes in knitwear design	VI	4		2	1						1
60.	Design processes in garments	VI	4		2	1						1
61.	Processes and machines for clothing I	VII	6			1	1	1	1		1	1

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 knitting	VII	6	0.5	0.5	0.25	1	1.25	1.25	0.5	0.25	0.5
65.	Elements of automation in knitwear	VII	4	0.5	0.5		0.5	0.5	1	0.5	0.25	0.25
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	6	1	1	1	1				1	1
69.	Processes and knitting machines II	VIII	6	1	1	1	1				1	1
70.	Computer Assisted Design in the field of the Ready-Made clothes	VIII	5	1		1		1			1	1
71.	Practice for drafting diploma	VIII	10	2	2	0.5	1	1	1	0.5		2
72.	Communication and Negotiation in business	VIII	3				0.5	0.5		1	1	
73.	Financial Economic Analysis	VIII	3	1				1		0.5		0.5

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 MECS nr. 5703 / 18.10.2011.

** Se vor trece toate disciplinele din Planul de Învățământ