

Nr crt	Name of discipline	Year I										Evaluation			Nr. of hours per discipline				Credit ssem		Obs.
		Sem 1 (14 s)					Sem 2 (14 s)					E	C	V	Tot	C	Apl.	St.inc	1	2	
		C	S	L	P	P	C	S	L	P	P										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	1 Linear Algebra, Analytical and Differential Ge	2	1									N			75	28	14	33	3		DF/DI
	2 Mathematical Analysis	2	1									N			75	28	14	33	3		DF/DI
	3 Computer Programming and Programming L	2		2									N		100	28	28	44	4		DF/DI
	4 Descriptive Geometry	1		2								N			100	14	28	58	4		DF/DI
	5 Chemistry	2		1								N			75	28	14	33	3		DF/DI
	6 Materials Science and Engineering I	2		1								N			75	28	14	33	3		DD/DI
	7 Physics	2		1								N			100	28	14	58	4		DF/DI
	8 Managerial culture	1											N		50	14	0	36	2		DC/DI
	9 Physical Education and Sports I		1											A/R	50	0	14	36	2		DC/DI
	10 Optional 1																				
	10,1 English Language I			2									N		50	0	28	22	2		DC/DO
	10,2 German Language I																				
	11 Special Mathematics						1	1				N			75	4	14	47	3		DF/DI
	12 Computer Programming and Programming Languages II						2	2					N		75	28	28	19	3		DF/DI
	13 Technical Drawing and Infographics						1	2					N		75	14	28	19	3		DF/DI
	14 Materials Science and Engineering II						1	1				N			75	14	14	47	3		DD/DI
	15 Introduction to Systems Engineering I						2	1				N			75	28	14	33	3		DS/DI
	16 Managerial Communication						2	1				N			75	28	14	33	3		DD/DI
	17 Electrotechnics						2	1					N		75	28	14	33	3		DD/DI
	18 Mechanics I						2	1				N			75	28	14	33	3		DD/DI
	19 Physical education and sports II							1						A/R	25		14	11	1		DC/DI
	20 Optional 2																				
	20,1 English Language II																				
	20,2 German Language II							1					N		50		14	36	2		DC/DO
	21 Practical activity							2	sapt x	30				A/R	75		60	15	3		DD/DI
															1500	392	396	712	30	30	

TOTAL	14	5	7	0	0	14	4	8	0	30
	26					26				
Nr. ex/ Nr. Col+Nr. Verif.	6/3+1					5/3+2				

200	Psychology of Education	2	2	0	0	0						N			130	28	28	74	5		DC/FAC
101	French Language I		2										N		52	0	28	24	2		DC/FAC
102	Italian Language I																				
201	Pedagogy I						2	2	0	0	0				130	28	28	74	5		DC/FAC
103	French Language II							1					N		26	0	14	12	1		DC/FAC
104	Italian Language II																				

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Technical University of Cluj-Napoca

Faculty: Machine Building

Domain: Engineering and Management

Specialization: Industrial Economic Engineering CJ English

Syllabus

Valid for the academic year 2016-

2017

Nr crt	Name of discipline	YEAR II										Evaluation			Nr. of hours per discipline				Credits sem		Obs.
		Sem 3 (14 s)					Sem 4 (14 s)					E	C	V	Tot	C	Apl.	St.inc	1	2	
		C	S	L	P	P	C	S	L	P	P										
0		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
22	Mechanics II	2	1									N			78	28	14	36	3		DID/DOB
23	Materials Strength	2	1	1								N			130	28	28	74	5		DID/DOB
24	Computer Aided Graphics	1		2									N		78	14	28	36	3		DF/DOB
25	Tolerances and Dimensional Control	2		2									N		130	28	28	74	5		DID/DOB
26	Systems Theory and Automation	2		1									N		78	28	14	36	3		DID/DOB
27	Electronics	1		1								N			78	14	14	50	3		DID/DOB
28	Foundation of Economics	2	1									N			78	28	14	36	3		DF/DOB
29	Introduction to Systems Engineering II	2		1								N			78	28	14	36	3		DS/DOB
30,1	English Language III		2										N		52	0	28	24	2		DC/DOP
30,2	German Language III																				
31	Statistics						1		1			N			78	14	14	50		3	DF/DOB
32	Mechanisms and Machine Elements I						3		1	1		N			130	42	28	60		5	DID/DOB
33	Economy of the enterprise						2	1				N			78	28	14	36		3	DS/DOB
34	Operational Research						2		1			N			78	28	14	36		3	DID/DOB
35	Applied Informatics						2		2				N		78	28	28	22		3	DF/DOB
36	Economic Engineering I						1			1			N		78	14	14	50		3	DS/DOB
37	Commercial law						2	2				N			78	28	28	22		3	DID/DOB
40	Optional 4																				
38,1	English Language IV																				
38,2	German Language IV							2					N		52	0	28	24		2	DC/DOP
39	Practical activity II								4	sapt x	30			A/R	130	0	120	10		5	DID/DOB
															1560	378	470	712	30	30	

TOTAL		14	5	8	0	0	13	5	5	2	30
		27					25				
Nr. ex/ Nr. col		5/4+0					5/3+1				

202	Pedagogy II	2	2	0	0	0						N			130	28	28	74	5		DC/FAC
105	French Language III		2										N		52	0	28	24	2		DC/FAC
106	Italian Language III																				
203	Didactics of the Technical Specialization						2	2	0	0	0	N			130	28	28	74		5	DC/FAC
107	French Language IV							2					N		52	0	28	24		2	DC/FAC
108	Italian Language IV																				

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Syllabus

Nr crt	Name of discipline	Year III										Evaluation			Nr. of hours per discipline				Credits sem		Obs.		
		Sem 5 (14 s)					Sem 6 (14 s)					E	C	V	Tot	C	Apl.	St.ind	1	2			
		C	S	L	P	P	C	S	L	P	P												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
40	Mechanisms and Machine Elements II	3		1	2							N			182	42	42	98	7		DID/DOB		
41	Manufacturing Machines and Equipment	3		1	1							N			182	42	28	112	7		DS/DOB		
42	Modeling and Simulation of Economic Systems	2		2									N		78	28	28	22	3		DS/DOB		
43	Product Manufacturing Technologies	2		2								N			104	28	28	48	4		DS/DOB		
44	Marketing	3		1								N			104	42	14	48	4		DS/DOB		
45,1	English Language V		1										N		52	0	14	38	2		DC/DOP		
45,2	German Language V																						
46,1	Environmental Management Systems																						
46,2	Environmental impact assessment	2	1										N		78	28	14	36	3		DID/DOP		
46,3	Ecomanagement																						
47	Manufacturing Technologies						2			2		N			78	28	28	22	3		DS/DOB		
48	Machines, Robots and Equipment for Flexible Manufacturing Systems I						2		2			N			78	28	28	22	3		DS/DOB		
49	Economic Engineering II						1			1			N		78	14	14	50	3		DS/DOB		
50	Management I						3		2			N			104	42	28	34	4		DID/DOB		
51	Accounting						2		2				N		78	28	28	22	3		DID/DOB		
52	Managerial Finances						1		1				N		52	14	14	24	2		DID/DOB		
53	Ergonomy						2		1				N		78	28	14	36	3		DID/DOB		
54,1	Business English I						0	2					N		52	0	28	24	2		DC/DOB		
54,2	Business German I																						
55,1	Labor law																						
55,2	Industrial Law						1	1				N			52	14	14	24	2		DS/DOP		
56	Practical A+B61 activity III						4 sapt x				30		A/R	130	0	120	10		5	DID/DOB			
																	1560	406	484	670	30	30	

TOTAL		15	2	7	3	0	14	3	8	3	30
		27					28				
Nr. ex/ Nr. col		4/3+0					5/4+1				

204	Computer Assisted Training	1	1	0	0	0							N		52	14	14	24	2		DC/FAC
205	Pedagogical Practical Activity I	0	0	0	0	3							N		78	0	42	36	3		DC/FAC
109	Graphics			1									N		52	28	14	10	2		DC/FAC
110	Lean Manufacturing	2																			
206	Classroom management						1	1	0	0	0	N			78	14	14	50	3		DC/FAC
207	Pedagogical Practical Activity II						0	0	0	0	3		N		52	0	36	16	2		DC/FAC
208	Final Exam Level I						0	0	0	0	0	N			0	0	0	0	5		DC/FAC
111	Business French I																				
112	Business Italian I							2					N		52	0	28	24	2		DC/FAC

Nr crt	Name of discipline	Year IV											Evaluation			Nr. of hours per discipline				Credits sem		Obs.		
		Sem 7 (14 s)						Sem 8 (14 s)					E	C	V	Tot	C	Apl.	St.ind	1	2			
		C	S	L	P	P	C	S	L	P	P													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
57	Machines, Robots and Equipment for Flexible Manufacturing Sys	1		1	1										N			104	14	28	62	4		DS/DOB
58	Production Systems Engineering I	3		2	1										N			156	42	42	72	6		DS/DOB
59	Information Systems for Management	1		1	1										N			104	14	28	62	4		DS/DOB
60	Human Resources Management	2		1											N			78	28	14	36	3		DID/DOB
61	Enterprise Diagnosis	2		1											N			78	28	14	36	3		DS/DOB
62	Management II	2		2											N			104	28	28	48	4		DID/DOB
63,1	Financial Management																							
63,2	Capital Markets	2		1											N			78	28	14	36	3		DID/DOP
63,3	Innovation Management																							
64,1	Internal and International Trade																							
64,2	European Policies	1		1											N			52	14	14	24	2		DS/DOP
65,1	Business English II		1												N			26		14	12	1		DC/DOP
65,3	Business German II				0	0									N									
66	Production Systems Engineering II						2		1	1					N			104	28	28	48		4	DS/DOB
67	Engineering and Quality Management						1		1						N			104	14	14	76		4	DS/DOB
68	Economic Engineering III						1			2					N			78	14	28	36		3	DS/DOB
69	Workshop							1							N			52	0	14	38		2	DS/DOB
70,1	Project Management																							
70,2	Management of Logistic Activities						1		1						N			104	14	14	76		4	DID/DOP
70,3	Artificial Intelligence for Management																							
71,1	Value Engineering																							
71,2	Work study						1		1						N			78	14	14	50		3	DS/DOP
71,3	Engineering of assembly processes																							
72	Research and Design Activities										6				N			182	0	84	98		7	DS/DOB
73	Practical Training for Diploma Thesis										2 sapt x 30				A/R			78		60	18		3	DID/DOB
																1560	280	452	828	30	30			

74	Final Graduation E+B67xam														N										10	DS/DOB
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TOTAL		14	1	10	3	0	6	1	4	9	30														
		28						20																	
Nr. ex/ Nr. Col+ Nr. VP		5/4+0						4/3+1																	

113	Business French II							1							N		26	0	14	12		1		DC/FAC	
114	Business Italian II																								

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