

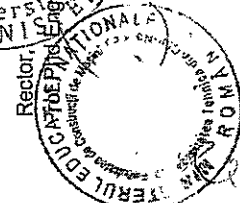
Technical University of Cluj-Napoca
 Faculty of Machine Building
 Profile: Industrial Engineering
 Specialisation: Manufacturing Engineering

CURRICULLUM

Valid for the academic year:
 2013-2014

No.	Code	Course title	Year I														Method of marking		No. of hours per course			Credits / sem	Obs.							
			Sem 1 (14 s)							Sem 2 (14 s)							E	C	V	Tot	C			Apl.	St.Int					
			C	S	L	P	P	C	S	L	P	P	C	S	L	P										P				
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	1	2							
1	DL1201	Mathematical Analysis	2																											
2	DL1202	Algebra	2	1																										
3	DL1203	Physics	2	1	1																									
4	DL1204	Chemistry	2	1	1																									
5	DL1205	Computer Programming I	2	2																										
6	DL1206	Materials I	2	1																										
7	DL1207	Descriptive Geometry and Technical Drawing I	2	2																										
8	DL1208	O1_English I	2																											
9	DL1209	O1_French I																												
10	DL1210	O1_German I																												
11	DL1211	F1_Technical English I	3																											
12	DL1212	Sport I	1																											
13	DL1213	Special Mathematics						2	1																					
14	DL1214	Communication Techniques						1	1																					
15	DL1215	Mechanics I						2	1	1																				
16	DL1216	Descriptive Geometry and Technical Drawing II						1	2																					
17	DL1217	Computer Programming II						2	2																					
18	DL1218	Manufacturing Basics						1	1	1																				
19	DL1219	Materials II						1	1	1																				
20	DL1220	Electrotehnics and Electrical Machines						2	1																					
21	DL1221	O2_English II							2																					
22	DL1222	O2_French II																												
23	DL1223	O2_German II																												
24	DL1224	F2_Managerial Communication						1	1																					
25	DL1225	Sport II							1																					
26	DL1226	Practical Work I																												
			3 sept x 30																											
			14	7	7	0	0	12	6	8	0	30											1560	364	482	714	29	31		

* ROMANIA * 71 PROTAI	
No. of exams (No. of colloquium + No. of tests)	
28	5/4
26	6/5



Rector,
 Prof. Phd. Eng. Daniel Popescu

IF Department Director,
 Prof. Phd. Eng. Nicolae Balc

Specialization respondent,
 Prof. Phd. Eng. Liana Hancu

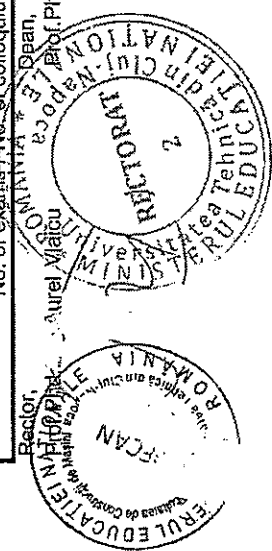
Technical University of Cluj-Napoca
 Faculty of Machine Building
 Profile: Industrial Engineering
 Specialisation: Manufacturing Engineering

CURRICULLUM

Valid for the academic year:
 2014-2015

No.	Code	Course title	Year II														Method of marking			No. of hours per course			Credits/sem	Obs.				
			Sem 3 (14 s)							Sem 4 (14 s)							E	C	V	Tot	C	Apl.			St.lin			
			C	S	L	P	P	C	S	L	P	P	C	S	L	P												
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				16	17	18	19	20	21	1	2		
27	DL1227	Strength of Materials I	2	1	1											N			104	28	28	48	4					
28	DL1228	Computer Aided Graphics I	1	2												N			78	14	28	36	3					
29	DL1229	Tolerances and Dimensional Control	2	2												N			104	28	28	48	4					
30	DL1230	Mechanisms I	2	2												N			78	28	14	36	3					
31	DL1231	Electronics	2	1	1											N			104	28	14	62	4					
32	DL1232	Mechanics II	2	1	1											N			104	28	28	48	4					
33	DL1233	Heat Treatments	1	1												N			78	14	14	50	3					
34	DL1234	History of Technics and Creativity	1	1												N			52	14	14	24	2					
35	DL1235	O3_English III	2													N			52		28	24	2					
36	DL1236	O3_French III																										
37	DL1237	O3_German III																										
38	DL1238	F3 Database	2	2												N			100	28	28	54	4					
39	DL1239	Statistics								1	1					N			52	14	14	24	2					
40	DL1240	Strength of Materials II								2	1	1				N			100	28	28	44	4					
41	DL1241	Mechanisms II								2	1	1				N			104	28	28	48	4					
42	DL1242	Thermotechnics								2	1	1				N			100	28	14	58	4					
43	DL1243	Fluid Mechanics								2	2					N			104	28	28	48	4					
44	DL1244	Machine Elements I								3	1	1				N			126	42	28	56	5					
45	DL1245	Quality Management								2	1	1				N			78	28	14	36	3					
46	DL1246	O4_English IV								2						N			52		28	24	2					
47	DL1247	O4_French IV																										
48	DL1248	O4_German IV																										
49	DL1249	F4_Technical English II								3						N			66		42	24	2					
50	DL1250	Practical Work II										30				N			90	0	90	0	3					
TOTAL			13	5	9	0	0	14	3	8	2	30							1560	378	468	714	29	31				

No. of exams	No. of colloquium	5/4	
27	5/4	5/4	



Specialization respondent,
 Prof. Phd. Eng. Liana Hancu

IF Department Director,
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Technical University of Cluj-Napoca
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CURRICULLUM

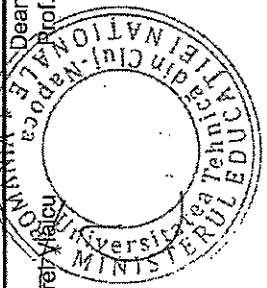
Valid for the academic year:
 2015-2016

No.	Code	Course title	Year III														Credits/sem	Obs.													
			Sem 5 (14 s)							Sem 6 (14 s)									No. of hours per course												
			C	S	L	P	P	C	S	L	P	P	C	S	L	P															
0		2																													
51	DL4251	Machine Elements II				2	1	2																			130				
52	DL4252	Fundamentals of Cutting and Surface Generation	3																								130				
53	DL4253	Machine Tools I	2		1	2																					130				
54	DL4254	Computer Aided Graphics II	1		2																						104				
55	DL4255	Company Management	2																								76				
56	DL4256	Marketing	2			1																					78				
57	DL4257	Product Design	2			1																					78				
58	DL4258	F5 Modeling and Simulation of Economic Systems	2			2																					84				
59	DL4259	Cutting Processing Technologies I									2		1														78				
60	DL4260	Nonconventional Technologies									2		1	1													104				
61	DL4261	Finite Element Analysis									1		1														78				
62	DL4262	Fundamentals of Metal Forming									2		1														104				
63	DL4263	Design of Cutting Tools									3		2	1													154				
64	DL4264	Machine Tools II									2		1														104				
65	DL4265	O5 Welding Technologies									2		1														76				
66	DL4266	O5 Digital Command of Fabrication Processes																													
67	DL4267	O5 Fundamentals of Plastic and Composite Parts Manufacturing																													
68	DL4268	O6 Design for Environment									2		1														76				
69	DL4269	O6 Ecologicals of Manufacturing Systems																													
70	DL4270	O6 Machine for Plastic Deformation																													
71	DL4271	F6 Ergonomics									2		1														84				
72	DL4272	Practical Work III																									60				
		TOTAL	14	2	7	4	0	16	0	9	2	30	27													1560	420	396	744	28	32
		No. of exams / No. of colloquium															27	6/3													

Specialization respondent,
 Prof. Phd. Eng. Liana Hancu

IF Department Director,
 Prof. Phd. Eng. Nicolae Balci

Rector,
 Prof. Phd. Eng. Aureliu Negulescu



CURRICULLUM

No.	Course title	Year IV														Credits / sem	Obs.					
		Sem 7 (14 s)							Sem 8 (14 s)									No. of hours per course				
		C	S	L	P	P	C	S	L	P	P	C	S	Tot	C			Apl.	St.incl			
0	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
73	Cutting Processing Technologies II	3		2											130	42	28	60	5			
74	Metal Forming Technologies	2	1	2											130	28	42	60	5			
75	Design of Devices	3	2	1											156	42	42	72	6			
76	CNC Technologies	2	1												104	28	14	62	4			
77	Technologies and Equipments for Assembly	2	1												104	28	14	62	4			
78	07 Computer Aided Manufacturing	1	2												78	14	28	36	3			
79	07 Computer Aided Technological Design																					
80	08 Reliability and Maintenance	1	1												78	14	14	50	3			
81	08 Numerical Methods																					
82	08_Mechanization and Automation of Technological Processes																					
83	F7 Intellectual Property	2	1												84	28	14	42	3			
84	Manufacturing Engineering							2			2				132	28	28	76	5			
85	Manufacturing Parts of Plastic and Composites							1	1						80	14	14	52	3			
86	Technologies for Flexible Manufacturing Systems							2	1						80	28	14	38	3			
87	Industrial Management							2	1						80	28	14	38	3			
88	09 Optimization of Technological Processes							1	1						80	14	14	52	3			
89	09 Cryogenic Technologies																					
90	09 Wood Processing Tools																					
91	010 Logistics							1	1						82	14	14	54	3			
92	010 CNC Programming																					
93	010 Wood Processing Technologies																					
94	F8 Web Applications Development							2	2						112	28	28	56	4			
95	Research and Design Activities									8					186	0	112	74	7			
96	Practical Work for Bachelor Diploma														60	0	60	0	3			
TOTAL		14	0	10	3	0	9	1	4	10	30	1560	322	452	786	30	30					
No. of exams / No. of colloquium + No. of tests		27										24		4/2+2								

97	DL4297	Defending of Bachelor Diploma																				
TOTAL																						

Rector: Prof. Phd. Eng. Aurel Popescu
 Dean: Prof. Phd. Eng. Daniela Popescu
 IF Department Director: Prof. Phd. Eng. Nicolae Balc
 Specialization respondent: Prof. Phd. Eng. Liana Hancu