

## CURRICULUM

1<sup>st</sup> year

1<sup>st</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Mathematical Analysis	15.F.01.O.001	2	2	0	0	69	5	E
2	Physics 1	15.F.01.O.002	2	0	2	0	69	5	E
3	Chemistry	15.F.01.O.003	2	0	2	0	69	5	E
4	Computer Programming 1	15.F.01.O.004	2	0	2	1	55	5	V
5	Fundamentals of Economics 1	15.F.01.O.005	2	1	0	0	58	4	E
6	English for Engineering 1	15.C.01.O.006	1	1	0	0	47	3	V
7	Physical Education and Sport 1	15.C.01.O.007	0	2	0	0	0	1	V
<b>Total: Compulsory courses (O)</b>			<b>11</b>	<b>6</b>	<b>6</b>	<b>1</b>	<b>367</b>	<b>28</b>	<b>4E+3V</b>
<b>Optional courses (A)</b>									
8a	Entrepreneurial Culture	15.S.01.A.008	1	1	0	0	22	2	V
8b	Corporate Social Responsibility	15.S.01.A.009	1	1	0	0	22	2	V
Total optional courses (A)			<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>2</b>	<b>1V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>12</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>389</b>	<b>30</b>	<b>4E+4V</b>
<b>TOTAL : HOURS / WEEK</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L1.1	Psihologia educatiei	15.C.01.L.001	2	2	0	0	69	5	E
L1.2	German Language 1	15.C.01.L.002	1	1	0	0	47	3	V
<b>Total: Elective courses (L)</b>			<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>8</b>	<b>1E+1V</b>

1<sup>st</sup> year

2<sup>nd</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Linear Algebra, Analytic and Differential Geometry	15.F.02.O.001	2	2	0	0	44	4	E
2	Physics 2	15.F.02.O.002	2	0	2	0	44	4	E
3	Fundamentals of Economics 2	15.F.02.O.003	2	1	0	0	58	4	E
4	Computer Programming 2	15.F.02.O.004	2	0	2	0	44	4	V
5	Biotechnology	15.D.02.O.005	2	1	0	0	58	4	E
6	English for Engineering 2	15.C.02.O.006	1	1	0	0	47	3	V
7	Introduction to Materials Science and Engineering	15.D.02.O.007	2	0	1	0	58	4	E
8	Physical Education and Sport 2	15.C.02.O.008	0	2	0	0	0	1	V
<b>Total: Compulsory courses (O)</b>			<b>13</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>353</b>	<b>28</b>	<b>5E+3V</b>
<b>Optional courses (A)</b>									
9a	Sociology	15.C.02.A.009	2	1	0	0	8	2	V
9b	Psychology	15.C.02.A.010	2	1	0	0	8	2	V
Total optional courses (A)			<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2</b>	<b>1V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>15</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>361</b>	<b>30</b>	<b>5E+4V</b>
<b>TOTAL : HOURS / WEEK</b>			<b>28</b>						
<b>Elective courses (L)</b>									
L1.3	Pedagogie 1	15.C.02.L.001	2	2	0	0	69	5	E
L1.4	German Language 2	15.C.02.L.002	1	1	0	0	47	3	V
<b>Total: Elective courses (L)</b>			<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>8</b>	<b>1E+1V</b>

2<sup>nd</sup> year1<sup>st</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Statistics and Stochastics	15.F.03.O.001	2	2	0	0	69	5	E
2	Mechanics and Strength of Materials	15.D.03.O.002	2	0	2	0	44	4	E
3	Production, Transmission and Distribution of Energy	15.S.03.O.003	2	0	2	0	44	4	E
4	Fundamentals of Electrical Engineering	15.D.03.O.004	2	2	0	0	69	5	E
5	Fundamentals of Management	15.D.03.O.005	2	1	0	0	83	5	E
6	English for Engineering 3	15.C.03.O.006	0	2	0	0	22	2	V
7	Physical Education and Sport 3	15.C.03.O.007	0	2	0	0	0	1	V
<b>Total: Compulsory courses (O)</b>			<b>10</b>	<b>9</b>	<b>4</b>	<b>0</b>	<b>331</b>	<b>26</b>	<b>5E+2V</b>
<b>Optional courses (A)</b>									
8a	Processing of Business Data	15.D.03.A.008	2	0	2	0	44	4	E
8b	Algorithms and Data Structures	15.D.03.A.009	2	0	2	0	44	4	E
<b>Total optional courses (A)</b>			<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>44</b>	<b>4</b>	<b>1E</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>12</b>	<b>9</b>	<b>6</b>	<b>0</b>	<b>375</b>	<b>30</b>	<b>6E+2V</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>27</b>						
<b>Elective courses (L)</b>									
L2.1	Pedagogie 2	15.C.03.L.001	2	2	0	0	69	5	E
L2.2	German Language 3	15.C.03.L.002	2	1	2	0	5	3	V
<b>Total: Elective courses (L)</b>			<b>4</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>74</b>	<b>8</b>	<b>1E+1V</b>

2<sup>st</sup> year2<sup>nd</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Advanced Mathematics for Decision Making	15.S.04.O.001	2	2	0	0	69	5	E
2	Mechanical Technologies and Equipment	15.D.04.O.002	2	0	2	0	69	5	E
3	Marketing	15.D.04.O.003	2	2	0	0	44	4	E
4	Electronic Measurements and Technical Systems	15.D.04.O.004	2	0	2	0	69	5	E
5	Applied Informatics	15.F.04.O.005	2	0	1	0	58	4	V
6	English for Engineering 4	15.C.04.O.006	0	2	0	0	22	2	V
7	Physical Education and Sport 4	15.C.04.O.007	0	1	0	0	0	1	V
<b>Total: Compulsory courses (O)</b>			<b>10</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>331</b>	<b>26</b>	<b>4E+3V</b>
<b>Optional courses (A)</b>									
8a	Statistical Techniques in Business Processes	15.S.04.A.008	2	2	0	0	44	4	E
8b	Economic Statistics	15.S.04.A.009	2	2	0	0	44	4	E
<b>Total optional courses (A)</b>			<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>4</b>	<b>1E</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>12</b>	<b>9</b>	<b>5</b>	<b>0</b>	<b>375</b>	<b>30</b>	<b>5E+3V</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L2.3	Didactica specialitatii	15.C.04.L.001	2	2	0	0	69	5	E
L2.4	German Language 4	15.C.04.L.002	0	2	0	0	72	4	V
<b>Total: Elective courses (L)</b>			<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>141</b>	<b>9</b>	<b>1E+1V</b>

3<sup>rd</sup> year1<sup>st</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Human Resources Management	15.D.05.O.001	2	2	0	0	69	5	E
2	Operations and Supply Chain Management	15.D.05.O.002	3	2	0	1	91	5; 2	E; P
3	Quality Engineering	15.S.05.O.003	2	2	0	0	69	5	E
4	Computer Aided Design and Technical Drawing	15.F.05.O.004	2	0	2	0	69	5	V
5	Risk Assessment Techniques in Industrial Organizations	15.D.05.O.005	2	2	0	0	44	4	E
<b>Total: Compulsory courses (O)</b>			<b>11</b>	<b>8</b>	<b>2</b>	<b>1</b>	<b>342</b>	<b>26</b>	<b>4E+1V+1P</b>
<b>Optional courses (A)</b>									
6a	Management Accounting	15.D.05.A.006	2	2	0	0	44	4	V
6b	Financial Accounting	15.D.05.A.007	2	2	0	0	44	4	V
<b>Total optional courses (A)</b>			<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>4</b>	<b>1V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>13</b>	<b>10</b>	<b>2</b>	<b>1</b>	<b>386</b>	<b>30</b>	<b>4E +2V+1P</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L3.1	Instruire asistata de calculator	15.C.05.L.001	1	1			22	2	V
L.3.2	Practica pedagogica in invatamantul preuniversitar obligatoriu (1)	15.C.05.L.002		3			33	3	V
L.3.3	Business English	15.C.05.L.003	0	2	0	0	72	4	V
L.3.4	German Language 5	15.C.05.L.004	0	2	0	0	72	4	V
<b>Total: Elective courses (L)</b>			<b>1</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>199</b>	<b>13</b>	<b>4V</b>

3<sup>rd</sup> year2<sup>nd</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Management of Technology and Innovation	15.D.06.O.001	2	2	0	0	44	4	E
2	Financial Management	15.D.06.O.002	2	2	0	0	44	4	E
3	Business Research Methods	15.S.06.O.003	2	2	0	0	19	3	E
4	Organizational Behavior	15.S.06.O.004	2	1	0	0	8	2	V
5	Industrial Logistics	15.D.06.O.005	2	2	0	0	44	4	E
6	Business Law	15.D.06.O.006	2	1	0	0	8	2	E
7	Practical Stage (12 weeks)	15.D.06.O.007	360 hours (12 x 5 x 6 hours/day)				8		V
<b>Total: Compulsory courses (O)</b>			<b>12</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>167</b>	<b>27</b>	<b>5E+2V</b>
<b>Optional courses (A)</b>									
8a	Cost-Benefit Analysis for Business	15.S.06.A.008	2	2	0	0	0	3	V
8b	Business Forecasting	15.S.06.A.009	2	2	0	0	0	3	V
<b>Total optional courses (A)</b>			<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>3</b>	<b>1V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>14</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>186</b>	<b>30</b>	<b>5E+3V</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L.3.5	Practica pedagogica in invatamantul preuniversitar obligatoriu (2) (12 sapt.)	15.C.06.L.001	0	3	0	0	0	2	V
L.3.6	Managementul clasei de elevi	15.C.06.L.002	1	1	0	0	47	3	E
L.3.7	Examen de absolvire - Nivelul 1	15.C.06.L.003					4	5	E
L.3.8	Business English	15.C.06.L.004	0	2	0	0	72	4	V
L.3.9	German Language 6	15.C.06.L.005	0	2	0	0	72	4	V
<b>Total: Elective courses (L)</b>			<b>1</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>195</b>	<b>18</b>	<b>2E + 3V</b>

4<sup>th</sup> year1<sup>st</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	Project Management	15.D.07.O.001	2	0	2	1	55	5	E
2	Business Process Modelling and Simulation	15.D.07.O.002	2	0	2	0	44	4	E
3	Business Integrated Information Systems	15.S.07.O.003	2	0	2	0	69	5	E
4	Entrepreneurship	15.S.07.O.004	2	2	0	0	69	5	E
5	Intellectual Property	15.D.07.O.005	2	1	0	0	33	3	V
6	Organizational Design and Change Management	15.S.07.O.006	2	1	0	0	58	4	V
<b>Total: Compulsory courses (O)</b>			<b>12</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>328</b>	<b>26</b>	<b>4E + 2V</b>
<b>Optional courses (A)</b>									
7a	Sustainable Development	15.D.07.A.007	2	1	0	0	58	4	V
7b	Ecotechnology	15.D.07.A.008	2	1	0	0	58	4	V
<b>Total optional courses (A)</b>			<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>4</b>	<b>1V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>14</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>386</b>	<b>30</b>	<b>4E + 3V</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L4.1	Business English	15.C.07.L.001	0	2	0	0	72	4	V
L4.2	German Language 7	15.C.07.L.002	0	2	0	0	72	4	V
<b>Total: Elective courses (L)</b>			<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>144</b>	<b>8</b>	<b>2V</b>

4<sup>th</sup> year2<sup>nd</sup> semester

No.	Courses		Hours/week				Individual study	ECTS	Evaluation
	Name	Code	C	S	L	P			
<b>Compulsory courses (O)</b>									
1	International Law	15.S.08.O.001	2	1	0	0	58	4	V
2	Factory Planning and Ergonomics	15.S.08.O.002	2	2	0	2	66	5	V
3	Electronic Businesses	15.S.08.O.003	2	2	0	0	44	4	V
4	Business Start up with Innovative Products	15.S.08.O.004	2	2	0	1	55	5	V
5	Management Communication	15.D.08.O.005	2	2	0	0	44	4	V
5	Development of Graduate Project	15.S.08.O.006	0	0	0	4	44	4	V
6	Practical stage for development of Graduate Project (60 hours)	15.S.08.O.007	0	0	0	0	0	4	V
<b>Total: Compulsory courses (O)</b>			<b>10</b>	<b>9</b>	<b>0</b>	<b>7</b>	<b>311</b>	<b>30</b>	<b>6V</b>
<b>Total: Compulsory and optional courses (O+A)</b>			<b>10</b>	<b>9</b>	<b>0</b>	<b>7</b>	<b>311</b>	<b>30</b>	<b>6V</b>
<b>T O T A L : H O U R S / W E E K</b>			<b>26</b>						
<b>Elective courses (L)</b>									
L4.3	Business English	15.C.08.L.001	0	2	0	0	72	4	V
L4.4	German Language 8	15.C.08.L.002	0	2	0	0	72	4	V
<b>Total: Elective courses (L)</b>			<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>144</b>	<b>8</b>	<b>2V</b>
Diploma Exam								<b>10</b>	<b>E</b>