

CURRICULUM

1st year

1st semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Technical Mechanics	UPB.06.D.01.O.001	2	0	2	0	3	5	E
2	General Chemistry	UPB.06.F.01.O.002	2	0	2	0	3	4	E
3	Mathematics 1	UPB.06.F.01.O.003	2	2	0	0	3	5	E
4	Computer Programming 1	UPB.06.F.01.O.004	2	0	2	2	4	6	V
5	Communication	UPB.06.C.01.O.005	2	0	2	0	3	4	E
6	English language	UPB.06.C.01.O.006	1	0	1	0	3	3	V
7	A1.1	UPB.06.C.01.A.007							
Total: Compulsory courses (O)			11	2	9	2	19	27	
Optional courses (A)									
A1.1	Foreign Languages 1 - French	UPB.06.C.01.A.008	1	0	1	0	3	3	V
	Foreign Languages 1 - Romanian	UPB.06.C.01.A.009							V
	Foreign Languages 1 - German	UPB.06.C.01.A.010							V
Total Optional courses (A)			1	0	1	0	3	3	
Total: Compulsory and optional courses (O+A)			12	2	10	2	22	30	
T O T A L: H O U R S / W E E K			26						
Elective courses (L)									
L1.1	Sport	UPB.06.C.01.L.001	0	1	0	0	0	2	V
L1.2	Ethics	UPB.06.C.01.L.002	2	2	0	0	3	5	V
L1.3	Psihologia educației	UPB.06.C.01.L.003	2	2	0	0	3	5	E
L1.4	Știința informării și documentării în cultura digitală	UPB.06.C.01.L.011	1.5	1	0	0	0	2	V
Total: Elective courses (L)			5.5	6	0	0	6	12	

1st year

2nd semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Mechanics of Materials 1	UPB.06.D.02.O.001	2	2	2	0	4	6	E
2	Mathematics 2	UPB.06.F.02.O.002	2	2	0	0	3	5	E
3	General Physics	UPB.06.F.02.O.003	2	0	2	0	3	5	E
4	Materials Science	UPB.06.D.02.O.004	2	0	2	0	3	5	V
5	Computer Programming 2	UPB.06.F.02.O.005	2	0	2	2	4	6	V
6	A1.2	UPB.06.C.02.A.006							
Total: Compulsory courses (O)			10	4	8	2	17	27	
Optional courses (A)									
A1.2	European Culture and Civilization	UPB.06.C.02.A.006	2	2	0	0	3	3	V
	European Integration								
Total Optional courses (A)			2	2	0	0	3	3	
Total: Compulsory and optional courses (O+A)			12	6	8	2	20	30	
T O T A L: H O U R S / W E E K			28						
Elective courses (L)									
L1.3	Sport	UPB.06.C.02.L.001	0	1	0	0	0	2	V
L1.4	Practical stage (60 hours/2 weeks)	UPB.06.D.02.L.002	60 de ore				0	2	V
L1.5	Foreign Languages 2 - French	UPB.06.C.02.L.003	1	0	1	0	3	5	V
L1.6	Foreign Languages 2 - Romanian	UPB.06.C.02.L.004	1	0	1	0	3	5	V
L1.7	Foreign Languages 2 - German	UPB.06.C.02.L.005	1	0	1	0	3	5	V
L1.8	Pedagogie 1	UPB.06.C.02.L.006	2	2	0	0	3	5	E
Total: Elective courses (L)			5	3	3	0	12	24	

RECTOR,

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CURRICULUM

2nd year

1st semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Technical Drawing	UPB.06.F.03.O.001	2	2	2	0	4	6	V
2	Mechanics of Materials 2	UPB.06.D.03.O.002	2	2	2	0	4	7	E
3	Probability and Statistics	UPB.06.F.03.O.003	2	2	0	0	3	5	E
4	Computer Aided Design 1	UPB.06.D.03.O.004	2	0	2	2	4	6	V
5	Databases	UPB.06.F.03.O.005	2	0	2	2	4	6	V
Total: Compulsory courses (O)			10	6	8	4	19	30	
Total: Compulsory and optional courses (O+A)			10	6	8	4	19	30	
T O T A L: HOURS / WEEK			28						
Elective courses (L)									
L2.1	Sport	UPB.06.C.03.L.001	0	1	0	0	0	2	V
L2.2	Foreign Languages 3 - French	UPB.06.C.03.L.002	2	0	2	0	3	5	V
L2.3	Foreign Languages 3 - Romanian	UPB.06.C.03.L.002	2	0	2	0	3	5	V
L2.4	Foreign Languages 3 - German	UPB.06.C.03.L.002	2	0	2	0	3	5	V
L2.5	Pedagogie 2	UPB.06.U.03.L.009	2	2	0	0	4	5	E
Total: Elective courses (L)			8	3	6	0	13	22	

2nd year

2nd semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Tolerances Design	UPB.06.D.04.O.001	2	0	2	0	3	5	E
2	Materials Technology	UPB.06.D.04.O.002	2	0	2	0	3	5	E
3	Economics	UPB.06.S.04.O.003	2	2	0	0	3	4	E
4	Computer Aided Design 2	UPB.06.D.04.O.004	2	0	2	2	4	6	V
5	Machine elements	UPB.06.D.04.O.005	2	0	2	2	4	6	E
6	A2.1	UPB.06.D.04.A.006							
Total: Compulsory courses (O)			10	2	8	4	17	26	
Optional courses (A)									
A2.1	Modelling and simulation Mechanical Vibrations	UPB.06.D.04.A.006	2	0	2	0	3	4	E
Total Optional courses (A)			2	0	2	0	3	4	
Total: Compulsory and optional courses (O+A)			12	2	10	4	20	30	
T O T A L: HOURS / WEEK			28						
Elective courses (L)									
L2.6	Sport	UPB.06.C.04.L.001	0	1	0	0	0	2	V
L2.7	Practical Stage (60 hours/2weeks)	UPB.06.D.04.L.002	0	0	0	0	0	2	V
L2.8	Foreign Languages 4 - French	UPB.06.C.04.L.003	2	0	2	0	3	5	V
L2.9	Foreign Languages 4 - Romanian	UPB.06.C.04.L.003	2	0	2	0	3	5	V
L2.10	Foreign Languages 4 - German	UPB.06.C.04.L.003	2	0	2	0	3	5	V
L2.11	Didactica specialitatii	UPB.06.C.04.L.012	2	2	0	0	4	5	E
Total: Elective courses (L)			8	3	6	0	13	24	

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CURRICULUM

3rd year

1st semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Mechanical Systems Design	UPB.06.D.05.O.001	2	0	2	0	3	4	E
2	Instrumentation and Measurement	UPB.06.S.05.O.002	2	0	2	0	3	4	E
3	System and Project Management	UPB.06.S.05.O.003	2	0	0	2	3	5	E
4	Manufacturing Processes 1	UPB.06.S.05.O.004	2	0	2	0	4	7	E
5	Production and Operation Management	UPB.06.S.05.O.005	2	0	2	2	4	6	V
6	A3.1	UPB.06.S.05.A.006							
Total: Compulsory courses (O)			10	0	8	4	17	26	
Optional courses (A)									
A3.1	Biomechanical Structures	UPB.06.S.05.A.006	2	0	2	0	3	4	E
	Finite Element Analysis of Solids								
Total Optional courses (A)			2	0	2	0	3	4	
Total: Compulsory and optional courses (O+A)			12	0	10	4	20	30	
T O T A L: HOURS / WEEK			26						
Elective courses (L)									
L3.1	Foreign Languages 5 - French	UPB.06.C.05.L.001	2	0	2	0	3	5	V
L3.2	Foreign Languages 5 - Romanian	UPB.06.C.05.L.001	2	0	2	0	3	5	V
L3.3	Foreign Languages 5 - German	UPB.06.C.05.L.001	2	0	2	0	3	5	V
L3.4	Instruire asistata de calculator	UPB.06.C.05.L.009	1	1	0	0	4	2	V
L3.5	Practica pedagogica in invatamantul preuniversitar obligatoriu (1)	UPB.06.C.05.L.010	0	3	0	0	4	3	V
L3.6	Psychology	UPB.06.C.05.L.002	2	0	2	0	3	5	V
Total: Elective courses (L)			9	4	8	0	20	25	

3rd year

2nd semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Computer Aided Engineering	UPB.06.S.06.O.001	2	0	2	2	4	6	V
2	Machine Tools	UPB.06.D.06.O.002	2	0	2	2	4	5	V
3	Robotics	UPB.06.S.06.O.003	2	0	2	0	3	4	V
4	Manufacturing Processes 2	UPB.06.S.06.O.004	2	0	2	2	3	4	V
5	Engineering Economics	UPB.06.S.06.O.005	2	0	2	0	3	4	V
6	Practical Stage (240 hours/8 weeks)	UPB.06.D.06.O.006	0	0	0	0	0	3	V
7	A3.2	UPB.06.S.06.A.007							
Total: Compulsory courses (O)			10	0	10	6	17	26	
Optional courses (A)									
A3.2	Supply Chain Management	UPB.06.S.06.A.007	2	0	0	2	3	4	V
	Industrial Management								
Total Optional courses (A)			2	0	0	2	3	4	
Total: Compulsory and optional courses (O+A)			12	0	10	8	20	30	
T O T A L: HOURS / WEEK			30						
Elective courses (L)									
L3.7	Foreign Languages 6 - French	UPB.06.C.06.L.002	2	0	2	0	3	5	V
L3.8	Foreign Languages 6 - Romanian	UPB.06.C.06.L.002	2	0	2	0	3	5	V
L3.9	Foreign Languages 6 - German	UPB.06.C.06.L.002	2	0	2	0	3	5	V
L3.10	Mangementul clasei de elevi	UPB.06.C.06.L.011	1	1	0	0	4	3	E
L3.11	Practica pedagogica in invatamantul preuniversitar obligatoriu (2)	UPB.06.C.06.L.012	0	3	0	0	4	2	V
L3.12	Examen absolvire, Nivel I	UPB.06.C.06.L.013	0	0	0	0	4	5	E
L3.13	Sociology	UPB.06.C.06.L.001	2	2	0	0	4	5	V
Total: Elective courses (L)			9	6	6	0	25	30	

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4th year

1st semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Computer Aided Manufacturing	UPB.06.S.07.O.001	2	0	2	2	4	6	E
2	Industrial Logistics	UPB.06.S.07.O.002	2	0	2	0	3	4	E
3	Product Design and Development	UPB.06.D.07.O.003	2	0	2	2	4	6	E
4	Integrated Production Systems	UPB.06.S.07.O.004	2	0	2	2	4	6	E
5	A4.1								
6	A4.2								
Total: Compulsory courses (O)			8	0	8	6	15	22	
Optional courses (A)									
A4.1	Virtual and Rapid Prototyping Process and Mould Design	UPB.06.D.07.A.001	2	0	2	2	4	5	E
A4.2	Leadership Lab		0	0	2	0	2	3	V
	Internship Lab								
Total Optional courses (A)			2	0	4	2	6	8	
Total: Compulsory and optional courses (O+A)			10	0	12	8	21	30	
T O T A L: HOURS / WEEK			30						
Elective courses (L)									
L4.1	Foreign Languages 7 - French	UPB.06.C.07.L.001	2	2	0	0	3	5	V
L4.2	Foreign Languages 7 - Romanian	UPB.06.C.07.L.001	2	2	0	0	3	5	V
L4.3	Foreign Languages 7 - German	UPB.06.C.07.L.001	2	2	0	0	3	5	V
L4.4	Intercultural Cooperation	UPB.06.C.07.L.002	2	2	0	0	3	5	V
Total: Elective courses (L)			8	8	0	0	12	20	

4th year

2nd semester

No.	Courses		Hours/week					ECT S	Evaluation
	Name	Code	C	S	L	P	SI		
Compulsory courses (O)									
1	Entrepreneurship and Innovation	UPB.06.D.08.O.001	4	0	0	2	4	6	V
2	Technology Strategy	UPB.06.S.08.O.002	2	0	2	0	3	4	V
3	Quality Assurance	UPB.06.D.08.O.003	2	0	2	0	3	4	V
4	Practical Stage (120 hours/4 weeks)	UPB.06.D.08.O.004	0	0	0	0	0	6	V
5	Graduate project	UPB.06.S.08.O.005	0	0	0	8	4	10	V
Total: Compulsory courses (O)			8	0	4	10	14	30	
Total: Compulsory and optional courses (O+A)			8	0	4	10	14	30	
T O T A L: HOURS / WEEK			22						
Elective courses (L)									
L4.5	Foreign Languages 8 - French	UPB.06.C.08.L.002	2	0	2	0	3	5	V
L4.6	Foreign Languages 8 - Romanian	UPB.06.C.08.L.002	2	0	2	0	3	5	V
L4.7	Foreign Languages 8 - German	UPB.06.C.08.L.002	2	0	2	0	3	5	V
L4.8	Organizational Management	UPB.06.C.08.L.001	2	2	0	0	3	5	V
Total: Elective courses (L)			8	2	6	0	12	20	
Diploma Exam								10	E

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