

CURRICULUM

1st year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Technical Mechanics	UPB.06.D.01.O.001	2	0	2	0	5	E
2	General Chemistry	UPB.06.F.01.O.002	2	0	2	0	4	E
3	Mathematics 1	UPB.06.F.01.O.003	2	2	0	0	5	E
4	Computer Programming 1 *	UPB.06.F.01.O.004	3	0	2	1	5	V
5	Communication *	UPB.06.C.01.O.005	3	0	1	0	4	E
6	English language *	UPB.06.C.01.O.006	1	0	1	0	4	V
7	A1.1	UPB.06.C.01.A.007						
Total: Compulsory courses (O)			13	2	8	1	27	
Optional courses (A)								
A1.1	Foreign Languages 1 - French	UPB.06.C.01.A.007	1	0	1	0	3	V
	Foreign Languages 1 - Romanian							V
Total Optional courses (A)			1	0	1	0	3	
Total: Compulsory and optional courses (O+A)			14	2	9	1	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	2	V
L1.2	Ethics	UPB.06.C.01.L.002	2	2	0	0	5	V
L1.3	Psihologia educației	UPB.06.C.01.L.003	2	2	0	0	5	E
Total: Elective courses (L)			4	5	0	0	12	

1st year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Mechanics of Materials 1	UPB.06.D.02.O.001	2	2	1	0	6	E
2	Mathematics 2	UPB.06.F.02.O.002	2	2	0	0	6	E
3	General Physics	UPB.06.F.02.O.003	2	0	2	0	5	E
4	Materials Science	UPB.06.D.02.O.004	2	0	2	0	5	E
5	Computer Programming 2 *	UPB.06.F.02.O.005	3	0	2	1	5	V
6	A1.2	UPB.06.C.02.A.006						
Total: Compulsory courses (O)			11	4	7	1	27	
Optional courses (A)								
A1.2	European Culture and Civilization	UPB.06.C.02.A.006	2	1	0	0	3	V
	European Integration							
Total Optional courses (A)			2	1	0	0	3	
Total: Compulsory and optional courses (O+A)			13	5	7	1	30	
T O T A L: H O U R S / W E E K			26					
Elective courses (L)								
L1.5	Sport**	UPB.06.C.02.L.001	0	1	0	0	2	V
L1.6	Practical stage (60 hours/2 weeks)	UPB.06.D.02.L.002	60 de ore				2	V
L1.7	Foreign Languages 2 - French	UPB.06.C.02.L.003	1	0	1	0	5	V
L1.8	Foreign Languages 2 - English	UPB.06.C.02.L.004	1	0	1	0	5	V
L1.9	Pedagogie 1	UPB.06.C.02.L.005	2	2	0	0	5	E
L1.10	Volunteering 1 (14weeksx5h/week=70h)	UPB.06.C.02.L.006	70 hours				3	V
Total: Elective courses (L)			4	3	2	0	22	

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NB **Two SPORT semesters will be mandatory for all four years

CURRICULUM

2nd year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation	
	Name	Code	C	S	L	P			
Compulsory courses (O)									
1	Technical Drawing	UPB.06.F.03.O.001	2	1	2	0	6	V	
2	Mechanics of Materials 2	UPB.06.D.03.O.002	2	2	2	0	7	E	
3	Probability and Statistics	UPB.06.F.03.O.003	2	2	0	0	5	E	
4	Computer Aided Design 1	UPB.06.D.03.O.004	2	0	2	1	6	E	
5	Databases *	UPB.06.F.03.O.005	2	0	2	2	6	V	
Total: Compulsory courses (O)			10	5	8	3	30		
Total: Compulsory and optional courses (O+A)			10	5	8	3	30		
T O T A L: H O U R S / W E E K			26						
Elective courses (L)									
L2.1	Sport	UPB.06.C.03.L.001	0	1	0	0	2	V	
L2.2	Foreign Languages 3 - French	UPB.06.C.03.L.002	2	0	2	0	5	V	
L2.3	Foreign Languages 3 - English	UPB.06.C.03.L.003	2	0	2	0	5	V	
L2.4	Pedagogie 2	UPB.06.U.03.L.004	2	2	0	0	5	E	
Total: Elective courses (L)			6	3	4	0	17		

2nd year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation	
	Name	Code	C	S	L	P			
Compulsory courses (O)									
1	Tolerances Design	UPB.06.D.04.O.001	2	0	2	0	5	E	
2	Materials Technology	UPB.06.D.04.O.002	2	0	2	0	5	E	
3	Economics	UPB.06.S.04.O.003	3	1	0	0	4	E	
4	Computer Aided Design 2	UPB.06.D.04.O.004	3	0	1	2	6	V	
5	Machine elements	UPB.06.D.04.O.005	2	0	1	2	6	E	
6	A2.1	UPB.06.D.04.A.006							
Total: Compulsory courses (O)			12	1	6	4	26		
Optional courses (A)									
A2.1	Modelling and simulation	UPB.06.D.04.A.006	2	0	1	0	4	E	
	Mechanical Vibrations								
Total Optional courses (A)			2	0	1	0	4		
Total: Compulsory and optional courses (O+A)			14	1	7	4	30		
T O T A L: H O U R S / W E E K			26						
Elective courses (L)									
L2.5	Sport	UPB.06.C.04.L.001	0	1	0	0	2	V	
L2.6	Practical Stage (60 hours/2weeks)	UPB.06.D.04.L.002	0	0	0	0	2	V	
L2.7	Foreign Languages 4 - French	UPB.06.C.04.L.003	2	0	2	0	5	V	
L2.8	Didactica specialitatii	UPB.06.C.04.L.004	2	2	0	0	5	E	
L2.9	Volunteering 2 (14weeksx5h/week=70h)	UPB.06.C.04.L.005	70 hours				3	V	
Total: Elective courses (L)			4	3	2	0	17		

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CURRICULUM

3rd year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Mechanical Systems Design	UPB.06.D.05.O.001	2	0	2	0	4	E
2	Instrumentation and Measurement	UPB.06.S.05.O.002	2	0	2	0	4	E
3	System and Project Management *	UPB.06.S.05.O.003	2	0	0	2	6	E
4	Manufacturing Processes 1	UPB.06.S.05.O.004	2	0	2	0	6	E
5	Computer Aided Engineering	UPB.06.S.05.O.005	3	0	1	2	6	V
6	A3.1	UPB.06.S.05.A.006						
Total: Compulsory courses (O)			11	0	7	4	26	
Optional courses (A)								
A3.1	Biomechanical Structures	UPB.06.S.05.A.006	2	0	2	0	4	V
	Finite Element Analysis of Solids							
Total Optional courses (A)			2	0	2	0	4	
Total: Compulsory and optional courses (O+A)			13	0	9	4	30	
T O T A L: H O U R S / W E E K			26					
Elective courses (L)								
L3.1	Instruire asistata de calculator	UPB.06.C.05.L.003	1	1	0	0	2	V
L3.2	Practica pedagogica in invatamantul preuniversitar obligatoriu (1)	UPB.06.C.05.L.004	0	3	0	0	3	V
L3.3	Psychology	UPB.06.C.05.L.005	2	0	2	0	5	V
Total: Elective courses (L)			3	4	2	0	10	

3rd year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Production and Operation Management	UPB.06.S.06.O.001	2	0	1	2	5	E
2	Machine Tools	UPB.06.D.06.O.002	2	0	1	1	4	E
3	Robotics	UPB.06.S.06.O.003	2	0	2	0	4	E
4	Manufacturing Processes 2	UPB.06.S.06.O.004	2	0	1	0	2	E
5	Manufacturing Processes 2 - Project	UPB.06.S.06.O.005	0	0	0	2	2	V
6	Engineering Economics	UPB.06.S.06.O.006	2	0	2	0	4	V
7	Practical Stage (300 hours/10 weeks)	UPB.06.D.06.O.007	0	0	0	0	6	V
8	A3.2	UPB.06.S.06.A.008						
Total: Compulsory courses (O)			10	0	7	5	27	
Optional courses (A)								
A3.2	Supply Chain Management	UPB.06.S.06.A.007	2	0	0	2	3	V
	Industrial Management							
Total Optional courses (A)			2	0	0	2	3	
Total: Compulsory and optional courses (O+A)			12	0	7	7	30	
T O T A L: H O U R S / W E E K			26					
Elective courses (L)								
L3.1	Mangementul clasei de elevi	UPB.06.C.06.L.003	1	1	0	0	3	E
L3.2	Practica pedagogica in invatamantul preuniversitar obligatoriu (2)	UPB.06.C.06.L.004	0	3	0	0	2	V
L3.3	Examen absolvire, Nivel I	UPB.06.C.06.L.005	0	0	0	0	5	E
L3.4	Volunteering 3 (14weeksx5h/week=70h)	UPB.06.C.06.L.006	70 hours				3	V
Total: Elective courses (L)			1	4	0	0	13	

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4 th year		1 st semester						
No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Computer Aided Manufacturing	UPB.06.S.07.O.001	3	0	1	2	6	E
2	Industrial Logistics	UPB.06.S.07.O.002	3	0	1	2	7	E
3	Product Design and Development	UPB.06.D.07.O.003	2	0	2	0	5	E
4	Product Design and Development - Project	UPB.06.D.07.O.004	0	0	0	2	2	V
5	Integrated Production Systems	UPB.06.S.07.O.005	3	0	1	2	7	E
6	A4.1	UPB.06.S.07.A.001						
Total: Compulsory courses (O)			11	0	5	8	27	
Optional courses (A)								
A4.1	Leadership Lab Internship Lab	UPB.06.S.07.A.001	1	0	1	0	3	V
Total Optional courses (A)			1	0	1	0	3	
Total: Compulsory and optional courses (O+A)			12	0	6	8	30	
T O T A L: H O U R S / W E E K			26					
Elective courses (L)								
L4.1	Intercultural cooperation	UPB.06.C.07.L.001	2	2	0	0	5	V
Total: Elective courses (L)			2	2	0	0	5	

4 th year		2 nd semester						
No.	Courses		Hours/week				ECT S	Evaluation
	Name	Code	C	S	L	P		
Compulsory courses (O)								
1	Entrepreneurship and Innovation *	UPB.06.D.08.O.001	4	0	0	2	6	V
2	Technology Strategy	UPB.06.S.08.O.002	3	0	0	3	7	V
3	Quality Assurance	UPB.06.D.08.O.003	3	0	1	2	7	V
4	Graduate project	UPB.06.D.08.O.004	0	0	0	4	4	V
5	Practical stage for Graduate Project/Interdisciplinary project European Project Semester	UPB.06.S.08.O.005	0	0	0	4	6	V
Total: Compulsory courses (O)			10	0	1	15	30	
Total: Compulsory and optional courses (O+A)			10	0	1	15	30	
T O T A L: H O U R S / W E E K			26					
Elective courses (L)								
L4.1	Organizational Management	UPB.06.C.08.L.003	2	2	0	0	5	V
L4.2	Volunteering 4 (14weeksx5h/week=70h)	UPB.06.C.08.L.004	70 hours				3	V
Total: Elective courses (L)			2	2	0	0	8	
Diploma Exam							10	E

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