

CURRICULUM

1st year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)
	Name	Code	C	S	L	P			
Compulsory courses (O)									
1	Technical Mechanics	UPB.06.D.01.O.001	2	0	2	0	5	E	69
2	Chemistry	UPB.06.F.01.O.002	2	0	2	0	4	E	44
3	Linear algebra, analytical and differential	UPB.06.F.01.O.003	2	2	0	0	5	E	69
4	Computer Programming 1 *	UPB.06.F.01.O.004	2	0	2	2	5	V	41
5	Communication *	UPB.06.C.01.O.005	2	0	2	0	4	E	44
6	English language *	UPB.06.C.01.O.006	1	0	1	0	4	V	72
7	A1.1	UPB.06.C.01.A.007							
Total: Compulsory courses (O)			11	2	9	2	27		
Optional courses (A)									
A1.1	Foreign Languages 1 - French	UPB.06.C.01.A.007	1	0	1	0	3	V	30
	Foreign Languages 1 - Romanian							V	
Total Optional courses (A)			1	0	1	0	3		
Total: Compulsory and optional courses (O+A)			12	2	10	2	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	36
L1.2	Ethics	UPB.06.C.01.L.002	2	2	0	0	5	V	69
L1.3	Psihologia educației	UPB.06.C.01.L.003	2	2	0	0	5	E	69
Total: Elective courses (L)			4	5	0	0	12		

1st year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)
	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	80
2	Mathematical analysis	UPB.06.F.02.O.002	2	2	0	0	6	E	94
3	Physics	UPB.06.F.02.O.003	2	0	2	0	5	E	69
4	Materials Science	UPB.06.D.02.O.004	2	0	2	0	5	E	69
5	Computer Programming 2 *	UPB.06.F.02.O.005	2	0	2	2	5	V	41
6	A1.2	UPB.06.C.02.A.006							
Total: Compulsory courses (O)			10	4	7	2	27		
Optional courses (A)									
A1.2	European Culture and Civilization*	UPB.06.C.02.A.006	2	1	0	0	3	V	33
	European Integration								
Total Optional courses (A)			2	1	0	0	3		
Total: Compulsory and optional courses (O+A)			12	5	7	2	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	36
L1.6	Practical stage	UPB.06.D.02.L.002	60				2	V	0
L1.7	Foreign Languages 2 - French	UPB.06.C.02.L.003	1	0	1	0	5	V	97
L1.8	Foreign Languages 2 - English	UPB.06.C.02.L.004	1	0	1	0	5	V	97
L1.9	Pedagogie 1	UPB.06.C.02.L.005	2	2	0	0	5	E	69
L1.10	Volunteering 1	UPB.06.C.02.L.006	70				3	V	0
Total: Elective courses (L)			64	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	IS (hours/sem.)
	Name	Code	C	S	L	P			
Compulsory courses (O)									
1	Technical Drawing	UPB.06.F.03.O.001	2	1	2	0	6	V	80
2	Mechanics of Materials 2	UPB.06.D.03.O.002	2	2	2	0	7	E	91
3	Computer Aided Design 1	UPB.06.D.03.O.004	2	0	2	1	6	E	80
4	Computer Programming 3*	UPB.06.F.03.O.005	2	0	2	2	6	V	66
5	A2.1								
Total: Compulsory courses (O)			8	3	8	3	25		
Optional courses (A)									
A2.1	Probability and Statistics	UPB.06.F.03.O.003	2	2	0	0	5	E	69
	Applied informatics								
Total Optional courses (A)			2	2	0	0	5		
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	36
L2.2	Foreign Languages 3 - French	UPB.06.C.03.L.002	2	0	2	0	5	V	69
L2.3	Foreign Languages 3 - English	UPB.06.C.03.L.003	2	0	2	0	5	V	69
L2.4	Pedagogie 2	UPB.06.U.03.L.004	2	2	0	0	5	E	69
Total: Elective courses (L)			6	3	4	0	17		

2nd year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)
	Name	Code	C	S	L	P			
Compulsory courses (O)									
1	Tolerances Design	UPB.06.D.04.O.001	2	0	2	0	4	E	44
2	Materials Technology	UPB.06.D.04.O.002	2	0	2	0	5	E	69
3	Economics	UPB.06.C.04.O.003	3	1	0	0	4	E	44
4	Computer Aided Design 2	UPB.06.D.04.O.004	2	0	2	2	5	V	41
5	Machine elements	UPB.06.D.04.O.005	2	0	1	2	5	E	55
6	Domain Practical Stage	UPB.06.D.04.O.006	90				4	V	0
7	A2.1	UPB.06.D.04.A.007							
Total: Compulsory courses (O)			11	1	7	4	27		
Optional courses (A)									
A2.2	Modelling and simulation	UPB.06.D.04.A.007	2	0	1	0	3	E	33
	Mechanical Vibrations								
Total Optional courses (A)			2	0	1	0	3		
Total: Compulsory and optional courses (O+A)			13	1	8	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	36
L2.6	Foreign Languages 4 - French	UPB.06.C.04.L.003	2	0	2	0	5	V	69
L2.7	Didactica specialitatii	UPB.06.C.04.L.004	2	2	0	0	5	E	69
L2.8	Volunteering 2	UPB.06.C.04.L.005	70				3	V	0
Total: Elective courses (L)			4	3	2	0	15		

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CURRICULUM

3rd year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)
	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	44
2	Instrumentation and Measurement	UPB.06.S.05.O.002	2	0	2	0	4	E	44
3	System and Project Management *	UPB.06.S.05.O.003	2	0	0	2	6	E	94
4	Manufacturing Processes 1	UPB.06.S.05.O.004	2	0	2	0	6	E	94
5	Computer Aided Engineering	UPB.06.S.05.O.005	3	0	1	2	6	V	66
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.D.05.A.006	2	0	2	0	4	V	44
	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	22
L3.2	Practica pedagogica in invatamantul preuniversitar obligatoriu (1)	UPB.06.C.05.L.004	0	3	0	0	3	V	33
L3.3	Psychology	UPB.06.C.05.L.005	2	0	2	0	5	V	69
Total: Elective courses (L)			3	4	2	0	10		
3rd year									
2nd semester									
No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)
	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	55
2	Machine Tools	UPB.06.D.06.O.002	2	0	1	1	4	E	44
3	Robotics	UPB.06.S.06.O.003	2	0	2	0	4	E	44
4	Manufacturing Processes 2	UPB.06.S.06.O.004	2	0	1	0	2	E	8
5	Manufacturing Processes 2 - Project	UPB.06.S.06.O.005	0	0	0	2	2	V	22
6	Engineering Economics	UPB.06.S.06.O.006	2	0	2	0	4	V	44
7	Specialty Practical Stage	UPB.06.S.06.O.007	270				6	V	0
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	19
	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	47
L3.2	Practica pedagogica in invatamantul preuniversitar obligatoriu (2)	UPB.06.C.06.L.004	0	3	0	0	2	V	8
L3.3	Examen absolvire, Nivel I	UPB.06.C.06.L.005	0	0	0	0	5	E	125
L3.4	Volunteering 3	UPB.06.C.06.L.006	70				3	V	0
Total: Elective courses (L)			1	4	0	0	13		

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4th year

1st semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)	
	Name	Code	C	S	L	P				
Compulsory courses (O)										
1	Computer Aided Manufacturing	UPB.06.D.07.O.001	3	0	2	2	6	E	52	
2	Industrial Logistics	UPB.06.S.07.O.002	3	0	2	2	7	E	77	
3	Product Design and Development	UPB.06.S.07.O.003	2	0	2	0	5	E	69	
4	Product Design and Development - Project	UPB.06.S.07.O.004	0	0	0	3	2	V	8	
5	Integrated Production Systems	UPB.06.S.07.O.005	3	0	2	2	7	E	77	
6	A4.1	UPB.06.S.07.A.001								
Total: Compulsory courses (O)			11	0	8	9	27			
Optional courses (A)										
A4.1	Leadership Lab	UPB.06.S.07.A.001	1	0	1	0	3	V	47	
	Internship Lab									
Total Optional courses (A)			1	0	1	0	3			
Total: Compulsory and optional courses (O+A)			12	0	9	9	30			
T O T A L: H O U R S / W E E K			30							
Elective courses (L)										
L4.1	Intercultural cooperation	UPB.06.C.07.L.001	2	2	0	0	5	V	69	
Total: Elective courses (L)			2	2	0	0	5			

4th year

2nd semester

No.	Courses		Hours/week				ECT S	Evaluation	IS (hours/sem.)	
	Name	Code	C	S	L	P				
Compulsory courses (O)										
1	Entrepreneurship and Innovation *	UPB.06.S.08.O.001	4	0	0	2	6	V	66	
2	Technology Strategy	UPB.06.S.08.O.002	3	0	0	3	7	V	91	
3	Quality Assurance	UPB.06.D.08.O.003	3	0	1	2	7	V	91	
4	Graduate project	UPB.06.D.08.O.004	0	0	0	4	4	V	44	
5	Practical stage for Graduate Project - Interdisciplinary project European Project Semester	UPB.06.S.08.O.005	60				6	V	0	
Total: Compulsory courses (O)			10	0	1	11	30			
Total: Compulsory and optional courses (O+A)			10	0	1	11	30			
T O T A L: H O U R S / W E E K			22							
Elective courses (L)										
L4.1	Organizational Management	UPB.06.C.08.L.003	2	2	0	0	5	V	69	
L4.2	Volunteering 4	UPB.06.C.08.L.004	70				3	V	0	
Total: Elective courses (L)			2	2	0	0	8			
Diploma Exam							10	E		

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