

University POLITEHNICA of Bucharest  
 Faculty of Industrial Engineering and Robotics  
 Study programme Industrial Engineering  
 CURRICULUM 1st year / Academic year 2019- 2020  
 1st semester

CURRICULUM  
 Study programme Industrial Engineering

No.	Name	Code	ECTS	Hours							Week	Total hours			Individual study/Total hours	Evaluation
				1st semester			Research	Course	Applic	Total						
				C	S	L						P				
<b>Compulsory courses (O)</b>																
1	Experimental Research	UPB.06.M1.O.01	4	2	0	2	0	0	14	28	28	56	44	E		
2	Mechanical Behaviour of Engineering Materials	UPB.06.M1.O.02	6	2	0	0	2	0	14	28	28	56	94	E		
3	Advanced Production Planning and Scheduling	UPB.06.M1.O.03	7	2	0	2	0	0	14	28	28	56	119	E		
4	Experimental Research - Project	UPB.06.M1.O.04	3	0	0	0	2	0	14	0	28	28	47	P		
5	Scientific research 1/Practical stage 1	UPB.06.M1.O.05	10					12	14	0	0	0	250	P		
<b>Optional courses (A)</b>																
2	Statistics compulsory hours													E / V		
ECTS, No.hours/week/act. (C,S,L,P,PL,individual study)																
No. hours / week / semester																
Elective courses (L)																
1	Proiectarea și managementul programelor educaționale		5	2	1	0	0	0	14	28	14	42	83	E		
2																

2nd semester

No.	Name	Code	ECTS	Hours							Week	Total hours			Individual study/Total hours	Evaluation
				1st semester			Research	Course	Applic	Total						
				C	S	L						P				
<b>Compulsory courses (O)</b>																
1	Additive Manufacturing	UPB.06.M2.O.01	4	2	0	2	0	0	14	28	28	56	44	E		
2	Mechatronics and Robotics	UPB.06.M2.O.02	6	2	0	2	2	0	14	28	56	84	66	E		
3	Industry 4.0	UPB.06.M2.O.03	7	2	0	2	2	0	14	28	56	84	91	E		
4	Additive Manufacturing - Project	UPB.06.M2.O.03	3	0	0	0	2	0	14	0	28	28	47	P		
5	Scientific research 2/Practical stage 2	UPB.06.M2.O.05	10					12	14	0	0	0	250	P		
<b>Optional courses (A)</b>																
1	Statistics compulsory hours													E / V		
No. hours / week / semester																
Elective courses (L)																
1	Psihopedagogia adolescentilor,tinerilor si adultilor	UPB.06.M2.L.01-11	5	2	1	0	0	0	14	28	14	42	83	E		
2	Multimedia in educatie	UPB.06.M2.L.01-12	5	1	2	0	0	0	14	14	28	42	83	E		



Decan  
*Chiriac*

CURRICULUM 2st year  
1st semester

No.	Name	Code	ECTS	Hours							Week	Total hours			Individual study/Total hours	Evaluation
				1st semester								Course	Applic	Total		
				C	S	L	P	Research								
<b>Compulsory courses (O)</b>																
1	Factory Simulation	UPB.06.M3.O.01	5	2	0	2	0	0	14	28	28	56	69	E		
2	Technical Entrepreneurship for SME	UPB.06.M3.O.02	4	2	0	2	0	0	14	28	28	56	44	E		
3	Quality Engineering and Management	UPB.06.M3.O.03	4	2	0	2	0	0	14	28	28	56	44	E		
4	E-business in industrial engineering	UPB.06.M3.O.04	5	2	0	2	0	0	14	28	28	56	69	E		
5	Etică și integritate academică	UPB.06.M4.O.01-02	2	1	0	0	0	0	14	14	0	14	36	V		
6	Scientific research 3/Practical stage 3	UPB.06.M3.O.05	10					11	14	0	154	154	96	P		
7																
<b>Optional courses (A)</b>																
2																
<b>Statistics compulsory hours</b>																
	ECTS, No.hours/week/act. (C,S,L,P,PL,individual study)		30	9	0	4	4	11	14	0	0	0	0	E / V		
	No. hours / week / semester			28											4	
	Elective courses (L)													1		
1	Didactica domeniului și dezvoltări în didactica specializării (învățământ liceal, postliceal)	UPB.06.M3.L.01-07	5	2	1	0	0	0	14	28	14	42	83	E		
2	Educație Interculturală	UPB.06.M3.L.01-08	5	1	2	0	0	0	14	14	14	28	42	E		

2nd semester

No.	Name	Code	ECTS	Hours							Week	Total hours			Individual study/Total hours	Evaluation
				1st semester								Course	Applic	Total		
				C	S	L	P	Research								
<b>Compulsory courses (O)</b>																
30	Scientific research 4/Practical stage 4 (inclusiv definitivare)	UPB.06.M4.O.01-01	30					28	14	0	392	392	358	P		
<b>Optional courses (A)</b>																
1	Statistics compulsory hours		30	0	0	0	0	28	14	0	392	392	358	E / V		
	ECTS, No.hours/week/act. (C,S,L,P,PL,individual study)			28											0	
	No. hours / week / semester														0	
1	Practică pedagogică (învățământ liceal, postliceal)	UPB.06.M4.L.01-02	5	0	0	0	3	0	14	0	42	42	83	V		
2	Examen de absolvire, Nivelul II	UPB.06.M4.L.01-03	5						2					E		

Centralised plan

No.	Name	Code	ECTS	Hours							Week	Total hours			Individual study/Total hours	Evaluation
				1st semester								Course	Applic	Total		
				C	S	L	P	Research								
<b>Compulsory courses (O)</b>																
			120	21	0	14	14	63	14	294	392	686	2314	10E/7V		
<b>Optional courses (A)</b>																
			0	0	0	0	0	0	14	0	0	0	0	0		
<b>Elective courses (L)</b>																
			35	8	7	0	3	0	14	112	140	252	623	6E/1V		



Rector:

Decan