

Transilvania University of Braşov, Romania

Study program: Engineering and Business Management

Faculty:	Technological Engineering and Industrial Management
Study period:	4 years (bachelor)
Academic year structure:	2 semesters (14 weeks per semester)
Examination sessions (two):	winter session (January/February) summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

1st Year

No. crt.	Course	1 st Semester					2 nd Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Calculus	2	2	-	-	5	-	-	-	-	-
02	Physics	2	-	2	-	4	-	-	-	-	-
03	Chemistry	2	-	2	-	5	-	-	-	-	-
04	Applied Software	2	-	2	-	4	-	-	-	-	-
05	Communication Management	2	2	-	-	5	-	-	-	-	-
06	Law	1	1	-	-	2					
07	Ethics and Academic Integrity	1	1	-	-	2					
08	Physical Education and Sports 1	-	1	-	-	1					
09	Computer Programming and Programming Languages	-	-	-	-	-	2	-	2	-	4
10	Technical Drawing	-	-	-	-	-	2	-	3	-	5
11	Material Science and Engineering	-	-	-	-	-	1	-	2	-	3
12	General Economics	-	-	-	-	-	2	2	-	-	5
13	Linear Algebra, Analytical and Differential Geometry						2	2	-	-	5
14	Mechanics						2	1	1	-	5
15	Physical Education and Sports 2						-	1	-	-	1
16*	English Language 1	1	1	-	-	2					
	French Language 1	1	1	-	-	2					
17*	English Language 2						1	1	-	-	2
	French Language 2						1	1	-	-	2

2nd Year

No. crt.	Course	3 rd Semester					4 th Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Numerical Methods	2	-	2	-	4					
02	Accountancy	2	-	2	-	4					
03	Basics of Management	2	2	-	-	4					
04	Economic Statistics	1	-	2	-	4					
05	Mechanisms	2	-	-	2	4					
06	Strength of Materials	2	1	1	-	4					
07	Economic Legislation	1	1	-	-	3					
08	Physical Education and Sports 3	0	1	-	-	1					

09	Business data processing						2	-	2	-	4
10	Machine Elements						2	-	1	-	4
11	Structure and performance of products						1	-	-	2	3
12	Finance						2	2	-	-	4
13	Economic Forecasts						2	2	-	-	4
14	Marketing						2	1	-	1	4
16	Physical Education and Sports 4						-	1	-	-	1
15	Practice 1 (90 hours/ year)						-	-	-	-	4
17	English Language 3	1	1	-	-	2					
	French Language 3	1	1	-	-	2					
18	English Language 4						1	1	-	-	2
	French Language 4						1	1	-	-	2

3nd Year

No. crt.	Course	5 th Semester					6 th Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Organization of production	1	2	-	-	4					
02	Quality engineering	2	-	2	-	4					
03	Computerized product design 1	2	-	2	-	5					
04	Business with innovative products	2	2	-	-	4					
05	Command and Drive Systems Engineering	2	-	2	-	5					
06	The basics of product manufacturing	2	-	1	1	5					
07	Risk management in business						1	2	-	-	3
08	Modelling and simulation of manufacturing systems						2	-	1	1	4
09	Computerized design of products 2						2	-	2	1	5
10	Technologies management						2	-	2	-	4
11	Industrial machinery and equipment						2	-	2	-	4
12	Practice in speciality (90 hours / year)						-	-	-	-	4
13	Criminal law	1	2	-	-	3					
	International law	1	2	-	-	3					
14	Human Resources Management						1	2	-	-	3
	Project Management						1	2	-	-	3
15	Industrial materials						1	-	2	-	3
	Biotechnology						1	-	2	-	3

4nd Year

No. crt.	Course	7 th Semester					8 th Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Engineering of Production Systems	2	-	-	2	4					
02	Economical-financial analysis	2	1	-	1	5					
03	Logistics	2	-	2	-	4					
04	Digital product design	1	-	2	-	3					
05	Developing business in services	2	2	-	-	5					
06	Feasibility and efficiency of investments	2	1	-	1	5					
07	International commerce						1	1	-	1	4
08	Technological innovation						2	-	1	1	4

09	E-business						1	-	1	-	2
10	Engineering and Business Management						2	1	-	2	5
11	Negotiation and ethics in business						2	2	-	-	3
12	Drafting the Diploma Project						0	0	0	4	4
13	Practice for Diploma Project (60 hours/year)						0	0	0	0	4
15	Money, banks, capital markets*	1	2	-	-	4					
	Strategic management	1	2	-	-	4					
16	Marketing researches						1	1	-	-	2
	Public policies						1	1	-	-	2
17	Public policies						1	1	-	-	2
	Sustainable Development*						1	1	-	-	2