

# Transilvania University of Braşov, Romania

## Study program: Economic and Industrial Engineering

### Full time and Distance learning

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)

#### 1<sup>st</sup> Year

No. crt.	Course	1 <sup>st</sup> Semester					2 <sup>nd</sup> Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Calculus	2	2	-	-	5	-	-	-	-	-
02	Physics	2	-	2	-	4	-	-	-	-	-
03	Chemistry	2	1	1	-	5	-	-	-	-	-
04	Applied Software	2	-	2	-	4	-	-	-	-	-
05	Communication Management	1	1	-	-	2	-	-	-	-	-
06	Law	1	1	-	-	2					
07	Ethics and Academic Integrity	1	1	-	-	2					
08	Physical Education and Sports 1	1	1	-	-	2					
09	Computer Programming and Programming Languages	-	-	-	-	-	2	-	2	-	5
10	Technical Drawing	-	-	-	-	-	2	0	3	0	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	-	4
15	Physical Education and Sports 2						1	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

\*) Note: Pos. \* are optional pack

#### 2<sup>nd</sup> Year

No. crt.	Course	3 <sup>rd</sup> Semester					4 <sup>th</sup> 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	1	1	-	-	1					

09	Databases in Management						2	-	2	-	4
10	Machine Elements						2	-	1	-	4
11	Basics of Technology						1	-	2	-	3
12	Finance						2	2	-	-	4
13	Materials Selection						1	-	2	-	4
14	Marketing						2	1	-	1	4
15	Practice 1 (90 hours/ year)						0	0	0	0	4
16	Physical Education and Sports 4						1	1	-	-	1
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

\*) Note: Pos. \* are optional pack

### 3<sup>rd</sup> Year

No. crt.	Course	5 <sup>th</sup> Semester					6 <sup>th</sup> Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Production Management	1	2	-	-	4					
02	Quality Management	2	-	2	-	4					
03	Fundamentals of Computer-aided Design	2	-	2	1	5					
04	Nanomaterials and Nanotechnologies	2	2	-	-	5					
05	Machine-tools Command and Driving	2	-	2	-	4					
06	Machining	2	-	1	1	5					
07	Modelling and Simulation of Economic Systems						2	-	1	1	4
08	3D Modelling						2	-	2	1	5
09	Tolerances and Dimensional Control						1	-	2	-	3
10	Technology Management						2	-	2	-	4
11	Manufacturing Machines and Equipment						2	-	2	-	4
12	Practice 2 (90 hours / year)						0	0	0	0	4
13	Commercial Law	1	2	-	-	3					
	Labour Law	1	2	-	-	3					
14	Human Resources Management						1	2	-	-	3
	Project Management						1	2	-	-	3
15	Technological Methods and Procedures						1	-	2	1	3
	Deformation Systems and Technologies						1	-	2	1	3

\*) Note: Pos. \* are optional pack

### 4<sup>th</sup> Year

No. crt.	Course	7 <sup>th</sup> Semester					8 <sup>th</sup> Semester				
		C	S	L	P	Cred	C	S	L	P	Cred
01	Engineering of Production Systems	2	-	-	2	4					
02	Economic Analysis	2	1	-	1	5					
03	Logistics	2	-	2	-	4					
04	Industrial Design	1	-	2	1	4					
05	Specials Systems and Technologies	1	-	2	-	4					
06	Investment Management	2	1	-	1	5					
07	Intern and International Commerce						1	1	-	1	3
08	Digital Production Systems						2	-	1	1	3
09	Simulated Enterprise						1	-	2	-	3
10	Design of Production Systems						2	1	-	2	4

11	Environment Management						1	2	-	-	3
12	Research Methods in Management						1	-	2	-	3
13	Diploma Project Documentation						0	0	0	0	4
14	Practice for Diploma Project (60 hours/year)						0	0	0	0	4
15	Entrepreneurship	1	2	-	-	4					
	Starting and Developing a Business	1	2	-	-	4					
16	Maintenance Management						2	2	-	-	3
	Value Management and Engineering						2	2	-	-	3