

Transilvania University of Braşov, Romania

Study program: Manufacturing Engineering

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	Code	Language of instruction*	1 st Semester					2 nd Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
01	Material science and engineering	SIM	Romanian						3		2		5
02	Mechanics	MEC	Romanian						2	3			5
03	Technical drawing and info- graphics 2	DTI2	Romanian						1		4		5
04	Computer programming and programming languages 2	PCL2	Romanian						2		2		5
05	General economics	ECG	Romanian						1	1			3
06	Modern languages 2a (English)	LM2a	Romanian						1	1			3
07	Modern languages 2b (French)	LM2b	Romanian										

*Support in English is offered.

2nd Year

No. crt.	Course	Code	Language of instruction*	3 rd Semester					4 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
01	Strength of materials 1	RM1	Romanian	2	1	1		5					
02	Numerical methods	MNI	Romanian	2		2		4					
03	Fluid mechanics and hydraulic equipment	MFH	Romanian	2		1		3					
04	Electrotechnics and applied electronics	EEA	Romanian	2		2		5					
05	Modern languages 3a (English)	LM3a	Romanian	1	1			3					
	Modern languages 3b (French)	LM3b	Romanian										
06	Physical training 3	EDF3	Romanian		1			1					
07	Machine elements 1	OM1	Romanian						2		1	1	4
08	Strength of materials 2	RM2	Romanian						2	1	1		4
09	3D Modelling	M3D	Romanian						2		2		4
10	Basics of Industrial engineering	BI1	Romanian						2		2		4
11	Heat treatments	AMTT	Romanian						2		1		3
12	Thermotechnics and heat engines	TET	Romanian						2		1		3
13	Industrial Management	MIN	Romanian						2	1			2
14	Modern languages 4a (English)	LM4a	Romanian						1	1			2
	Modern languages 4b (French)	LM4b	Romanian										
15	Physical training 4	EDF4	Romanian							1			1

*Support in English is offered.

3rd Year

No. crt.	Course	Code	Language of instruction*	5 th Semester					6 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
01	Data acquisition and distribution systems	SADD	Romanian	2		2		4					
02	Computer-aided parametric design	PPAC	Romanian	2		2		4					
03	Machine elements II	OM2	Romanian	2		1		4					
04	Machine elements II - Project	OMP	Romanian				2	3					
05	Tolerances and dimensional control	TCD	Romanian	2		2		5					
06	Finite elements method	MEF	Romanian	2		2		5					
07	Cold-pressing technology I	TPR1	Romanian						3		2		4
08	CAD/ CAPP/ CAM Systems	CADM	Romanian						2		2		4

*Support in English is offered.

4th Year

No. crt.	Course	Code	Language of instruction*	7 th Semester					8 th Semester				
				C	S	L	P	Cred	C	S	L	P	Cred
01	Cold-pressing technologies II	TPR2	Romanian	1			2	4					
02	Automation of manufacturing processes	APT	Romanian	2		2		4					
03	Numerical control	CN	Romanian	2		2		4					
04	Computer aided design of products – CAD systems	PACP	Romanian	2		2		4					
05	Robotics in manufacturing processes	RPT	Romanian	2		2		4					
06	Developing computer applications in engineering	DCAI	Romanian						2		2		4
07	Computer aided manufacturing	FAC	Romanian						1		2		3
08	Flexible manufacturing systems	SFF	Romanian						2		2		4
09	Concurrent engineering	ISIM	Romanian						1		2		3

*Support in English is offered.