Transylvania University of Brasov, Romania

Study program: Industrial Economic 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	1st Semester					2nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Calculus	CAL	2	2			4					
02	Physics	PH	2		2		5					
03	Chemistry	CH	2		2		5					
04	Applied software	AS	2		2		5					
05	Communication management	CM	2	2			5					
06	Law	LAW	1	1			2					
07	Integration and professional development	IPD	1	1			2					
08	Physical education and sport	PES1		1			1					
09	Computer programming and programming languages	CPPL						2		2		5
10	Technical drawing and info- graphics	TDI						3		2	2	6
11	Material science and engineering	MSE						2		1		4
12	General economics	GE						2	2			4
13	Linear algebra, analytical and differential geometry	LAA						2	2			5
14	Mechanics	MEC						2	1			4
15	Physical Education and Sport	PES2							1			1
16	Modern language 1a	ML1a	1	1			2					
	Modern language 1b	ML1b										
	Modern language 2a	ML2a						1	1			2
	Modern language 2b	ML2b										

2nd Year

No. crt.	Course	Code	3rd Semester					4th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Numerical methods	NM	2		2		4					
02	Accountancy	ACC	2		2		4					
03	Accountancy - project	ACCP				1	2					
04	Basics of management	BM	2	1			4					
05	Economic statistics	ES	2	1			4					
06	Mechanisms and machine components 1	MMC1	2			1	3					

07	Strength of materials	SM	2	1	1		4					
08	Economic legislation	EL	2	1			3					
09	Physical Education and Sport	PES1		1			1					
10	Databases in management	DM						2		2		4
11	Mechanisms and machine components 1	MMC2						2		1		3
12	Basics of technology 1	BT1						2		1		4
13	Finance and credit	FC						2	2		1	5
14	Materials technology	MT						2		2		4
15	Marketing	MK						2	1			3
16	Project to marketing	PMK									1	2
17	Physical Education and sport	PES2							1			1
18	Domain practice (90 hours / year)	DP										4
19	Modern language 3a	ML3a	1	1			2					
	Modern language 3b	ML3b										
	Modern language 3a	ML3a						1	1			2
	Modern language 3b	ML3b										

3nd Year

No. crt.	Course	Code	5th Semester					6th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Production management	PM	2	1			4					
02	Quality management	QM	2		2		4					
03	Basics of technological aided design 1	BTAD1	2		2	1	5					
04	Nanomaterials and nanotechnologies	NN	2		1	1	4					
05	Machine-tools command and driving	MTCD	2	1	1		4					
06	Machining	MAC	2		1	1	5					
07	Modeling and simulation of production systems	MSPS						2		1	1	4
08	Basics of technological aided design 2	BTAD2						1		2	1	4
09	Tolerance and dimensional control	TDC						2		1	1	4
10	Cold forming systems and technologies	CFST						2		2		4
11	Manufacturing machines and equipment	MME						2		2		4
12	Practice in speciality (90 hours / year)	PS										4
13	Commercial law	CL	2	1			3					
	Labour law	LL										
15	Project management	PM						2	1			3
	Human resources management	HRM										
16	Basics of technology 2	BT2						2	1		1	3
	Machine tools	MT										

4nd Year

No. crt.	Course	Code	7 th Semester					8th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Manufacturing systems engineering	MSE	2	1		2	6					
02	Economic analysis	EA	2	1		1	5					
03	Management of logistic activities	MLA	2		2		4					

04	Industrial design	ID	2		2		4					
05	Special systems and technologies	SST	2		1		3					
06	Analysis of investment projects	AIP	2	1		1	5					
07	Intern and international commerce	IIC						2	2			3
08	Computer aided control of manufacturing systems	CAC						2		1		3
09	Supply management	SM						2		1		3
10	Design of manufacturing systems	DMS						2	1		1	4
11	Environment management	EM						2	1			3
12	Simulated enterprise	SE						1	2			4
13	Diploma project documentation	DPD									14	4
14	Practice for diploma project	PDP								30		4
15	Entrepreneurship	ENT	2	1			3					
	Starting and developing a business	SDB										
16	Maintenance of machines and appliances	MMA						2	1			2
	Maintenance of manufacturing systems	MMS										