Transilvania University of Braşov, Romania

Study program: Industrial Safety Engineering

Faculty: Materials Science and Engineering

Study period: 4 years

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.	Course	Code	Language of		1 S	eme	ster			2 nd S	eme	ester	
crt.	Course	Code	instruction	С	S	L	Р	Cred	U	S	L	Р	Cred
1	Mathematical Analysis	SMAMA1	Romanian	2	2			4					
2	Computer and Programming languages	SMPRGO	Romanian	3		1		5					
3	Materials science and engineering I	SMINM1	Romanian	2		1		4					
4	Descriptive Geometry	SMGDE1	Romanian	2		1		4					
5	General chemistry	SMCGB1	Romanian	2		1		4					
6	Materials Technology I	SMTHM1	Romanian	1		2		3					
7	Mechanics	SMMEC1	Romanian	2		1		4					
8	Physics	SMFIZ1	Romanian						2		1		4
9	Materials Technology II	SMTHM2	Romanian						2		1		4
10	Materials science and engineering II	SMINM2	Romanian						2		1		4
11	Linear Algebra, Analytical Geometry,	SMALG1	Romanian						2	1			4
11	and Differential Geometry		Nomanian							ı			4
12	Technical Drawing and Infographics	SMDEST	Romanian						1		2		3
13	Numerical methods	SMMEN1	Romanian						2		2		4
14	Data Processing and Informatic	SMPDS1	Romanian						2		1		4
14	Systems	ו כטאואוכ	Nomanian								'		4
15	Academic Writing	SMACAD	Romanian						1				1
16	English language	SMLE01/	English	1	1			2	1	1			2
10		SMLE02		ľ	'				ı	ı			
17	Physic education	SMEDF01	Romanian			1		1			1		1
17	Friysic education	SMEDF02				ı		ı			ı		ı

2nd Year

No.	Course	Codo	Language of	anguage of 3 rd Semester						4 th Semester							
crt.	Course	Code	instruction	U	S	L	Ρ	Cred	U	S	L	Ρ	Cred				
1	Special mathematics	SMMS01	Romanian	2	1			4									
2	Strength of Materials I	SMRM01	Romanian	2	1	1		5									
3	Ecology and environmental protection	SMECOL	Romanian	2		2		5									
4	Technical devices	SMDIST	Romanian	2		2		5									
5	Dimensional control	SMCODI	Romanian	3		2		5									
6	Electrotechnics	SMETH1	Romanian	2		1		4									
7	Machine components	SMOM01	Romanian						2		1		3				
8	Thermodynamics	SMTERM	Romanian						2		1		4				

9	Bases of Technical Computer Assisted Design	SMBPTA	Romanian					3		2		5
10	Strength of Materials II	SMRM02	Romanian					2	1	1		4
11	Machine components - project	SMOM02	Romanian								1	2
12	Probability Theory and Mathematical Statistics	SMTPSM	Romanian					1		2		3
13	Field Practice (90 hours)	SMPR11	Romanian									2
14	English language	SMLE03/ SMLE04	English	1	1		2	1	1			2
15	Physic education	SMEDF03 SMEDF04	Romanian			1	1			1		1

3rd Year

No.	Course	Codo	Language of		5 th S	eme	ster		6 th Semester						
crt.	Course	Code	instruction	C	S	L	Р	Cred	С	S	L	Р	Cred		
1	Elements of Electronics in Industrial Engineering	SMEEII	Romanian	2		2		5							
2	Mechanical Processing	SMPRM1	Romanian	2		2		4							
3	Heat treatments	SMTRTE	Romanian	2		2		4							
4	Testing of Materials and Equipment for Protection	SMTMMP	Romanian	2		2		4							
5	Ergonomics	SMERGS	Romanian	2		1	1	5							
6	Ventilation and Air Conditioning Equipment	SMEVC1	Romanian	2		1	1	5							
7	Waste Processing Technologies	SMTPLI	Romanian						2		2		4		
8	Safety Assessment in Industry	SMESI1	Romanian						2		1		4		
9	Radiation Protection in Industry	SMRPI1	Romanian						2		1		4		
10	Reliability	SMFIAB	Romanian						2	2			4		
11	Risk Management	SMRIT1	Romanian	,		-			2	1	1		4		
12	Practical Activity	SMPR22	Romanian						•				2		

4 Year

No.	Course	Code		7 th 9	Seme	ester		8 th Semester					
crt.	Course	Code	instruction	U	S	L	Ը	Cred	С	S	L	Ρ	Cred
1	Safety in Primary Sectors	SMSSP1	Romanian	2	2			5					
2	Safety Systems for Mechanical Industry	SMSSPM	Romanian	2	1	1		5					
3	Management and Safety for Industrial	SMMSTI	Domanian	2	1	1		5					
3	Transport	SIVIIVISTI	Romanian	2	I	ı		כ					
4	Safety of Advanced Production Systems	SMSSAP	Romanian	2	1			4					
5	Occupational Safety Legislation	SMLSM1	Romanian	2	2			4					
6	Industrial Emissions	SMNIND	Romanian	M	2			5					
7	Elements of Social Medicine	SMEMM1	Romanian	1	1			2					
8	Electro-security	SMELS1	Romanian						2		1	1	4
9	Initiation and Conduct of Business	SMICAF	Romanian						2		2		3
10	Audit and Certification of Safety	CMACCI	ACCI D :						٦.		7		7
10	Engineering in Industry	SMACSI	Romanian						2		2		3
11	Statistical Control of Processes and	CMCCDD	Romanian						2		2		3
11	Accidents	SMCSPR	RUIIIdIIIdII										5
12	High Level Design	SMMAPR	Romanian						2		2		3