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		1 st	Sem	este	!r	2 nd Semester					
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Mathematical Analysis	SMAMA1	2	2			4						
2	Computer Basics	SMBUC1	3		1		5						
3	Descriptive Geometry	SMGDE1	2		1		4						
4	Materials science and engineering I	SMINM1	2		1		4						
5	General chemistry	SMCGB1	2		1		4						
6	Materials Technology I	SMTHM1	1		2		3						
7	Physics	SMFIZ1	2		1		4						
8	Materials Technology II	SMTHM2	2		1		5						
9	Materials science and engineering II	SMINM2	2		1		5						
10	Materials Technology II	SMTHM2						2		1		5	
11	Materials science and engineering II	SMINM2						2		1		5	
12	Linear Algebra, Analytical Geometry and	SMBUC1 SMGDE1 SMINM1 SMCGB1 SMTHM1 SMFIZ1 SMTHM2 SMINM2 SMINM2 SMTHM2						2	1			4	
	Differential Equation	31117 (201						-				'	
13	Technical Drawing	SMDEST						1		2		3	
14	Numerical methods	SMMEN1						2		2		4	
15	Mechanics	SMMEC1						2	1			3	
16	Data Processing and Informatic Systems	SMPDS1						2		2		4	
17	English language	SMLE01/	1	1			2	1	1			2	
_ ' '		SMLE02	<u>'</u>	_				'	_				
18	Physic education	SMEDF01			1		1			1		1	
	i nysic caacadon	SMEDF02			'		'			'		'	

2nd Year

No.	Course	Code	1 Semester					2 nd Semester					
crt.	CSU/32	code	С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Special mathematics	SMMS01	2	1			4						
2	Strength of Materials I	SMRM01	2	٣	1		5						
3	Ecology and environmental protection	SMECOL	2		2		5						
4	Probability theory and statistics	SMTPSM	1		m		4						
5	Technical devices	SMDIST	2		2		5						
6	Dimensional control	SMCODI	3		2		5						
7	Electrotechnics	SMETH1	2		1		4						

8	Quality Control and Assurance	SMASCA					2		2		5
9	Strength of Materials II	SMRM02					2	1	1		4
10	Machine components	SMOM01					2		1		4
11	Thermodynamics	SMTERM					2		1		4
12	Bases of Technical Computer Assisted Design	SMBPTA					m		2		5
13	Practical Activity	SMPR11							30		2
14	English language	SMLE03/	1	1		2	1	1			7
14		SMLE04	I	I		2	ı	1 2	2		
15	Dh	SMEDF03			1	1				1	1
15	Physic education	SMEDF04			'	'				'	'

3rd Year

No.	Course	Code		1 st :	Sem	<u>?</u> r	2 nd Semester					
crt.	Course	code	С	S	L	Р	Cred	С	S	L	Р	Cred
1	Elements of Electronics in Industrial Engineering	SMEEII	2		2		5					
2	Theory of Welding Processes	SMTPS1	3		3		6					
3	Mechanical Processing	SMPRM1	2		2		4					
4	Heat treatments	SMTRTE	2		2		4					
5	Testing of Materials and Equipment for Protection	SMTMMP	2		2		4					
6	Ergonomics	SMERGS	2		1	1	5					
7	Ventilation and Air Conditioning Equipment	SMEVC1	2		1	1	5					
8	Techniques for Purification of Industrial Liquid	SMTPD1						2		2		5
9	Waste Processing Technologies	SMTPLI						2		2		4
10	Safety Assessment in Industry	SMESI1						2		1		4
11	Radiation Protection in Industry	SMRPI1						2		1		4
12	Reliability	SMFIAB						2	2			4
13	Risk Management	SMRIT1						2	1	1		4
14	Practical Activity	SMPR22								30		2

4th Year

No.	Course	Code		1 st :	Sem	este	er .	2 nd Semester					
crt.	Course	Code	С	S	L	P Cred C S L P 5	Cred						
1	Safety in Primary Sectors	SMSSP1	2	2			5						
2	Safety Systems for Mechanical Industry	SMSSPM	2	1	1		5						
3	Management and Safety for Industrial Transport	SMMSTI	2	1	1		5						
4	Safety of Advanced Production Systems	SMSSAP	2	1			4						
5	Occupational Safety Legislation	SMLSM1	2	2			4						
6	Industrial Emissions	SMNIND	3	2			5						
7	Elements of Social Medicine	SMEMM1	1	1			2						
8	Electro-security	SMELS1						2		1	1	4	
9	Initiation and Conduct of Business	SMICAF						2		2		3	
10	Audit and Certification of Safety Engineering in Industry	SMACSI						2		2		3	
11	Bases of Experimental Research	SMBCEX						3		2		3	
12	Statistical Control of Processes and Accidents	SMCSPR						2		2		3	
13	High Level Design	SMMAPR						2		2		3	
14	Practical Activity	SMPR23								30		2	
15	Research for the Diploma Project	SMPPD2						26				10	