Transilvania University of Braşov, Romania

Study program: Industrial Environmental Engineering and Protection

Faculty: Product Design and Environment

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.	Course Code	Code	1 Semester					2 nd Semester					
crt.		Code	С	S	L	Р	Cred	С	S	L	Р	Cred	
01	Mathematical Analysis	DIAM01	2	3			5						
02	Chmeistry I	DICH01	2		2		5						
03	Computer programming and programming languages	DIPC01	1		2		4						
04	Descriptive Geometry	DIGD01	2		1		4						
05	Technical drawing and infographics I	DIDT01	2		2		4						
06	Materials science and engineering	DISM01	3		2		5						
07	Pollution sources, processes and products	DIPC02						1		1		3	
08	Technical drawing and infographics II	DIDT02						1		2		3	
09	Mechanics	DIMC02						3	2			4	
10	Physics	DIF02						2	1	1		4	
11	Linniar Algebra, Analytical and Differential geometry	DIAGAD						2	2			4	
12	Chemistry II	CHIMAN						3		2		6	
13	General Economy	DIDC02						1	1			3	
	English Language (O1)												
14	French Language (O1)	LS01	4	4			_						
14	German Language (O1)	LSUI	1	1			3				P		
	Spanish Language (O1)												
	English Language (O2)												
15	French Language (O2)	LS02						1	4			3	
כו	German Language (O2)	L302						1 1	I			3	
	Spanish Language (O2)										P		
16	Physical training	EF01/EF02		1			1		1			1	
	Total		13	5	9		31	14	8	6		31	
	Total hours/week				27				1 1				

2nd Year

No.	Carre	Cada		3 rd	Sem	ester		4 th Semester					
crt.	Course	Code	С	S	L	Р	Cred	C	S	L	Р	Cred	
01	Special Mathematics	DIMS03	2	2			4						
02	Databases and statistics	DIBDPS	1		1		3						
03	Strength of materials	DIRM03	3	1	1		4						
04	Chemistry III	SMC003	3		3		6						
05	Thermodynamics	SMCF03	2		2		6						
06	Applied informatics	DIM3D						1		1		3	
07	Sustainable development	DIDD04						2		1		3	
80	Transfer phenomena I (Energy transfer)	DITMT						2		1		3	
09	Electrochemistry and corrosion	ECHC04						3	1	2		4	
10	Mechanical engineering	DIOM04						3		2		4	
11	Ecotoxicology	SMCA04						2		1		4	
12	Fluid mechanics	DIMF04						2		1		3	
13	Practical activity (90 hours)	PR04						90				4	
14	Electrotechnics (O3)	DIEA03	2		2		5						
14	Electronics (03)	MAE04	2										
	English Language (O4)												
15	French Language (O4)	1503	1	1			2				P		
13	German Language (O4)		'	'			_						
	Spanish Language (O4)												
	English Language (05)												
16	French Language (05)	LS03 1					1	1			2		
10	German Language (05)	L304						'	'				
	Spanish Language (05)												
17	Physical training	EF03/EF04		1			1		1			1	
	Total		14	5	9		31	16	3	9		31	
	Total hours/week				28					28			

3rdYear

No.	Carre	Cada		5 th	Sem	ester		6 th Semester						
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred		
01	Product ecological design I	BPP05	2			2	4							
02	Environmental chemistry	SMCM5	2		2		4							
03	The science of soil and soil depollution processes	SSPDS06	2		1		3							
04	Information technology	DIMEF5	2		3		4							
05	Instrumental analysis	SMAI05	2		3		5							
06	Pollutants' separation methods	SMSEP05	1		1		3							
07	Communication	DIDC05	1	1			3							
08	Meterology and climatology	MET05	1		2		4							
09	Chemometry	SMCH05						1		1		2		
10	Transfer phenomena II -(Mass transfer)	SMFT05						2	1		1	4		
11	Ecology	ECOIPMI						1		1		3		
12	Product ecological design II	DIDC06						2	1			2		
13	Project - Product ecological design II	DIDCP06									1	2		

14	Analysis and synthesis of the technolgical	ASPT				2		3		3
14	processes	AJPT				2		ባ		٥
15	Technologies and equipment for (waste)water	TRATAP				2		2		/.
15	treatment I	IKATAP				2		2		4
16	Practical activity (90 hours)	PR06					9	0		4
17	Chemistry of colloids and surfaces (06)	SMSP6				1		7		J.
17	Interface processes (06)	INT06				2		2		3
18	Air treatment technologies and equipment (07)	PEPA06				1		1		3
18	Indoor air quality	TEHRCCC06				2		ı		3
	Total	13 1 12 2 30 14 2 10 2		2	30					
	Total hours/week			28				28		

4th Year

No.	Course	Codo	7 th Semester					8 th Semester						
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred		
01	Product ecological design III	DP07	2			2	4							
02	Energy systems based on biomass	BI007	2		2		4							
03	Technologies and equipment for (waste)water treatment II	APE07	2		2		5							
04	Data aquisition, monitoring and diagnosis techniques for environmental quality assessment	MONIT07	2		2		5							
05	Technological and biotechnological processes automation	COM07	2		2		4							
06	Engineering of the environmental depollution process	DEPOL07	2	1			3							
()/	Engineering of the environmental depollution process - Project	DEPOLP07				2	2							
08	Environment and society	MSOC07	1	2			3							
09	Technologies for waste treatment and re-use (10 weeks)	DES08						2		2		4		
10	Impact studies (10 weeks)	IMP08						2	2			5		
11	Environmental policies (10 weeks)	LEG08						1	1			3		
12	Practical activity for the diploma project (4 weeks x22h/week = 88h)	PR08							8	38		2		
13	Development of the diploma project (14 weeks x 4h/week = 56h)	LIC08									4	4		
	Industrial ecology (10 weeks, 08)	EIND08												
14	Implementing renewable energy systems (10 weeks, 08)	EPE08						2		2		4		
15	Wastes integrated management (10 weeks, 09)	MCM08						0	٦			/.		
15	Ecological management (10 weeks, 09)	MNGEC08						2	2			4		
16	Environmental projects management (10 weeks, 010)	PRO08						2			7	4		
10	Health and safety management in industry (10 weeks, 010)	INT08						۷			۷	-+		
	Total		13	3	8	4	30	11	5	4	6	30		
	Total hours/week				28				2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					