

UNIVERSITY of PETROSANI

FACULTY of MINING

FIELD of STUDY: **ENVIRONMENTAL ENGINEERING**

PROGRAMME of STUDY: **INDUSTRIAL ENVIRONMENT ENGINEERING AND PROTECTION**

Academic Year .2016/2017

CURRICULUM

1st Year of study

No	SUBJECTS	Subject cod	1st Semester (14 weeks)						2nd Semester (14 weeks)						
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS	
A. COMPULSORY SUBJECTS (O)															
1	Mathematical Analysis	MDPMFO101	2	2		2	E	5							
2	Linear Algebra, Analytical and Differential Geometry	MDPMFO102	2	2		2	E	5							
3	Descriptive Geometry	MDPMFO103	2		2	2	E	4							
4	Applied Data Processing I	MDPMFO104	2		2	2	C	5							
5	Anorganic Chemistry	MDPMFO105	2		3	2	E	5							
6	Foreign Languages I	MDPMCO106		2		2	C	3							
7	Physical Education I	MDPMCO107		1			A/R	1							
10	Mechanics	MDPMDO210							2		1	2	E	5	
11	Drafting and Computer - Assisted Graphics	MDPMFO211									3	2	C	4	
12	Applied Data Processing II	MDPMFO212							2		2	2	C	5	
13	Physics	MDPMFO213							2		2	2	E	5	
14	Organic Chemistry	MDPMFO214							2		3	2	E	4	
15	Foreign Languages II	MDPMCO215								2		2	C	3	
16	Physical Education II	MDPMCO216								1			A/R	1	
TOTAL O:			10	7	7	12	4E+3C	27	8	3	11	12	3E+4C	26	
			24						22						
B. OPTIONAL SUBJECTS (choice) (A)															
8	General Economy	MDPMCA108													
9	European Culture, Civilization and Institutions	MDPMCA109	1	1			C	3							

17	Numerical Analysis	MDPMFA217							2	2		2	E	4
18	Probability Theory and Mathematical Statistics	MDPMFA218												
TOTAL A:			1	1	0	0	1C	3	2	2	0	2	1E	4
			2						4					
TOTAL O+A:			11	8	7	12	4E+4C	30	10	5	11	14	4E+4C	30
			26						26					
C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)														
19	Communication	MDPMCL219	2	2			C	3						
20	Environmental Geography	MDPMCL220								2	1		C	3

Physical Education - credits over total of 60

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2nd Year of study

No	SUBJECTS	Subject cod	3rd Semester (14 weeks)					4th Semester (14 weeks)						
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
A. COMPULSORY SUBJECTS (O)														
1	Material Strength I	MDPMDO301	2		1	2	C	3						
2	Electrotechnics	MDPMDO302	2		1	2	C	3						
3	Thermotechnics	MDPMDO303	2		1	2	E	4						
4	Chemistry of Pollution Factors	MDPMDO304	2		2	2	E	4						
5	Environmental Physics	MDPMDO305	2		2	2	E	4						
6	Mineralogy and Petrography	MDPMDO306	2		2	2	E	4						
7	Phenomena of Pollution Transfer	MDPMSO307	2		1	2	C	4						
8	Physical Education III	MDPMC0308		1			A/R	1						
11	Environmental Chemistry	MDPMDO411							2		2	2	E	4
12	Sustainable Development	MDPMSO412							1	1		1	C	2
13	Electrochemistry and Corrosion	MDPMDO413							2		1	2	E	4
14	Surveying and Cadastre	MDPMDO414							3		2	2	E	4
15	Sustainable Management of Natural Resources	MDPMSO415							2	1		2	C	3
16	Ecology	MDPMDO416							2		2	2	E	4
17	Environmental Geology	MDPMDO417							2		2	2	E	3
18	Physical Education IV	MDPMC0418								1			A/R	1
21	Technological Training	MDPMDO421									120		C	3
TOTAL O:			14	1	10	14	4E+4C	26	14	3	9	13	5E+4C	27
			25						26					
B. OPTIONAL SUBJECTS (choice) (A)														

9	Microbiology	MDPMSA309	2		2	2	E	4							
10	Biology	MDPMSA310													
19	Fluid Mechanics	MDPMDA419							2		1	2	C	3	
20	Hydraulics	MDPMDA420													
TOTAL A:			2	0	2	2	1E	4	2	0	1	2	1C	3	
			4						3						
TOTAL O+A:			16	1	12	16	5E+4C	30	16	3	10	15	5E+5C	30	
			29						29						
C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)															
21	Foreign Language	MDPMCL421								2		2	C	2	

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3rd Year of study

No	SUBJECTS	Subject cod	5th Semester (14 weeks)						6th Semester (14 weeks)					
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
A. COMPULSORY SUBJECTS (O)														
1	Pedology and Soil Improvement Techniques	MDPMDO501	2		2	2	E	4						
2	Reusable Materials Science	MDPMDO502	2		1	2	C	3						
3	Human Resources and Projects Management	MDPMDO503	2		2	2	E	4						
4	Pollution Environment	MDPMSO504	3	2	2P	4	E	6						
5	Techniques and Technologies in Constructions	MDPMSO505	2	1		2	C	4						
6	Mining Techniques and Technologies	MDPMSO506	2		1	2	C	4						
9	Stability of Mounds and Slopes	MDPMSO609							2	2		2	E	4
10	Methods and Equipments for Determining the Quality of Environmental Factors	MDPMSO610							2		3	2	E	4
11	Technologies and Unit Operations for the Processing of Mineral Resources	MDPMSO611							3		3	2	C	5
12	Technologies Used in the Metallurgical and Power Industry	MDPMSO612							2		1	2	C	3
13	Biotechnology in Environment Protection	MDPMSO613							2		1	2	E	3
14	Climatology	MDPMDO614							2		1	2	E	3
17	Research Internship	MDPMDO617									120		C	4
TOTAL O:			13	3	8	14	3E+3C	25	13	2	9	12	4E+3C	26

			24								24			
B. OPTIONAL SUBJECTS (choice) (A)														
6	Coastal Engineering	MDPMDA507	2		2	2	E	5						
7	Engineering Geology	MDPMDA508												
15	Hydrology and Hydrogeology	MDPMDA615							2		2	1	C	4
16	Water Management	MDPMDA616												
TOTAL A:			2	0	2	2	1E	5	2	0	2	1	1C	4
			4						4					
TOTAL O+A:			15	3	10	16	4E+3C	30	15	2	11	13	4E+4C	30
			28						28					
C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)														
18	Sociology	MDPMCL518	2		2	2	C	3						
19	Foreign Language	MDPMCL619								2		2	C	2

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4th Year of Study

No	SUBJECTS	Subject cod	7th Semester (14 weeks)						8th Semester (10 + 4 weeks)					
			C	S	L/P	PI	Examination Form	ECTS	C	S	L/P	PI	Examination Form	ECTS
A. COMPULSORY SUBJECTS (O)														
1	The Impact of Human Activities on the Environment	MDPMSO701	2	2		2	C	4			2P	2	C	2
2	Rehabilitation of Degraded Grounds	MDPMSO702	2	1	2P	3	E	6						
3	Waste Storage, Treatment, and Recycling	MDPMSO703	2	2	1P	2	E	5						
4	Environment Monitoring	MDPMDO704	3		2	3	E	6						
5	Water Treatment and Filtering	MDPMSO705	2	1	1P	2	E	5						
8	Environmental Audit	MDPMSO808							1	2		3	E	3
9	Underground Areas Management	MDPMSO809							2		1	2	C	3
10	Environmental Economy and Politics	MDPMSO810							2	2		2	C	3
11	Environment Protection Legislation	MDPMSO811							2	2		2	E	3
12	Integrated Environmental Management Systems	MDPMSO812							2		2	2	E	3
15	Research internship for the elaboration of the graduation paper	MDPMDO815									92		C	5
16	Elaboration of Graduation Projects	MDPMDO816									2		C	5
TOTAL O:			11	6	6	12	4E+1C	26	9	6	7	13	3E+5C	27
			23						22					
B. OPTIONAL SUBJECTS (choice) (A)														
6	Geographical Information Systems (GIS)	MDPMDA706	2		2	2	E	4						

7	Information Technology	MDPMDA707													
13	Automation of Technological Processes	MDPMDA813								2		2	2	E	3
14	Analysis and Synthesis of Technological Processes	MDPMDA814													
TOTAL A:			2		2	2	1E	4	2		2	2	2	1E	3
			4						4						
TOTAL O+A:			13	6	8	14	5E+1C	30	11	6	9	15	4E+5C	30	
			27						26						
C. FACULTATIVE SUBJECTS (FREE CHOSEN) (L)															
17	Human Resources Management	MDPMSL717	2		2	2	C	3							
18	Politology	MDPMSL818							2		2	2	C	3	

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