UNIVERSITY OF PETROSANI FACULTY OF MECHANICAL AND ELECTRICAL ENGINEERING

CURRICULUM

începând cu anul universitar 2018 - 2019

MINING MACHINES AND EQUIPMENT
ENGINEERING
MECHANICAL ENGINEERING
4 YEARS
FULL TIME (FT)

TRAINING OBJECTIVES AND COMPETENCES

The general objective of the training programme: to create specialists in the design and management of mining technological processes, the exploitation and maintenance of the machines and equipment used in the mining industry, able to work in research, design and production.

The specific objectives of the training programme: to teach knowledge and to create the abilities which are necessary for the acquisition of the following competences:

Professional competences:

C1. To apply the fundamental theoretical and practical engineering knowledge in order to make calculations, demonstrations and applications, the use of software in activities in the field of Mechanical engineering.

C2. The ability to understand and assimilate the principles, theories, basic methods for calculations, demonstrations and applications characteristic of the fundamental disciplines.

C3. The ability to identify and describe the general and specific operation conditions for the mining machines and equipment and to define the main difficulties in their selection, set up, adjustment and exploitation..

C4. The ability to check the set up and operation manner of the mining machines and equipment in order to determine their quality according to current regulations.

C5. To apply basic principles and methods characteristic of mechanical engineering to solve specific design problems of the elements or parts of the machines, installations and equipment in the mining industry.

C6. To elaborate the technical and economic documentation regarding the organization and management of the operations of set up, adjustment and exploitation of the machines, installations and equipment in the mining industry.

Transversal competences:

CT1 – To apply the values and ethics of the profession of engineer and to fulfill the professional tasks responsibly under the circumstances of diminished autonomy and qualified assistance. To promote the convergent and divergent logical experiment, the practical applicability, the assessment and self-assessment in making decisions. To fulfill the professional tasks responsibly.

CT2 – To perform the activities and the roles characteristic of team work on different hierarchical layers. To promote initiative, dialogue, cooperation, positive attitude and respect, diversity and multiculturalism and to continuously improve the activity. Communication and team work.

CT3 – To self-assess the need for professional training objectively in order to integrate on the labour market and to adapt to the dynamics of its requirements and to achieve personal and professional development. The efficient use of the language abilities and the knowledge of the information and communication technology. Awareness of the long-life training for professional development.

Rector.

Dean, Prof. Ph.D. eng. Sorin Mihai RADU Assoc. Prof. Ph.D. eng. Iosif DUMITRESCU

Faculty of MECHANICAL AND ELECTRICAL ENGINEERING

Field MECHANICAL ENGINEERING

Study program MINING MACHINES AND EQUIPMENT

ENGINEERS - FULL TIME, 4 years x 2 sem./yr x 14 weeks/sem. x 28 hours/wee,k 3 weeks exam. per.

STUDY PLAN valid beginning with academic year 2018-2019

No.	FIRST YEAR	Courses code	Course	S	eme	ster	1	S	eme	ster	2	Credit	points	Ei, C	Ci, Vi	No. of ł	nours per	discipline	Hours for individual	Total of hours
	Courses	coue	type	С	S	L	Р	С	S	L	Р	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total	study	
1	Mathematical analysis	2MM1OF01	F	2	2							5		E1		28	28	56	69	125
2	Chemistry	2MM10F02	F	2		2						3		C1		28	28	56	19	75
3	Descriptive geometry	2MM10F03	F	1		2						3		C1		14	28	42	33	75
4	Applied Informatics I	2MM10F04	F	2		3						6		E1		28	42	70	80	150
5	Materials science and engineering	2MM10D05	D	2		2						5		E1		28	28	56	69	125
6	Mechanics I	2MM10D06	D	2	2							5		E1		28	28	56	69	125
7	English language I	2MM1AX07	Х		2							2		C1		0	28	28	22	50
8	Physical education and sport I	2MM1OX08	Х		2							1		A/R		0	28	28	0	28
9	Algebra, analytical and differential geom.	2MM2OF09	F					2	2				4		E2	28	28	56	44	100
10	Physics	2MM2OF10	F					2		2			3		C2	28	28	56	19	75
11	Technical Drawing	2MM2OF11	F					2		2			4		C2	28	28	56	69	125
12	Applied Informatics II	2MM2OF12	F					2		2			5		E2	28	28	56	69	125
13	Mechanics II	2MM2OD13	D					2	1	1			5		E2	28	28	56	69	125
14	Materials technology	2MM2OD14	D					2		2			5		E2	28	28	56	44	100
15	Optional course 11 (foreign lang.)	2MM2AX15	Х						2				3		C2	0	28	28	47	75
16	Physical education and sport II	2MM2OX16	Х						2				1		A/R	0	28	28	0	28
	TOTAL FIDET VEAD				8	9	0	12	7	9	0	30	30	OF		322	462	784	722	1506
	TOTAL FIRST YEAR			11	0	9	U	12	7	9	U	6	0	οĽ-	+6C	322	402	/04	122	1506

Rector,

Professor eng., Ph.D. Sorin Mihai RADU

Faculty of MECHANICAL AND ELECTRICAL ENGINEERING

Field MECHANICAL ENGINEERING

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No.	SECOND YEAR	Courses code	Course	S	Semester 1				eme	ster	2	Credit	points	Ei, O	Ci, Vi	No. of hours per discipline			Hours for individual	Total of hours
	Courses	code	type	С	S	L	Р	С	S	L	Р	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total	study	
17	Thermotechnics and thermal machines	2MM3OD17	D	2		2						4		E3		28	28	56	44	100
18	Strength of Materials I	2MM3OD18	D	3	2							5		E3		42	28	70	55	125
19	Mechanisms	2MM3OD19	D	2		2	1					6		E3		28	42	70	80	150
20	Infographics (CAD) I	2MM3OF20	F	2		2						5		E3		28	28	56	69	125
21	Optional course OP 22	2MM4AF21	F	2	2							4		C3		28	28	56	44	100
22	History of Technology and Science	2MM3OX22	Х	2	1							3		C3		28	14	42	33	75
23	Optional course 21 (foreign lang. 3)	2MM3AX23	Х		2							2		C3		0	28	28	47	75
24	Physical education and sport III	2MM3OX24	Х		1							1		A/R		0	14	14	0	14
25	Management	2MM3OD25	D					2	2				3		C4	28	28	56	19	75
26	Machine parts I	2MM4OD26	D					2		2			4		E4	28	28	56	44	100
27	Infographics (CAD) II	2MM4OF27	F					1		2			4		E4	14	28	42	58	100
28	Strength of Materials II	2MM4OD28	D					2	2	1			4		E4	28	42	70	30	100
29	Tolerance and dimension control	2MM4OD29	D					2		2			3		C4	28	28	56	19	75
30	Mechanical vibrations	2MM4OD30	D					2		1			3		C4	28	14	42	33	75
31	Optional course 23 (foreign lang. 3)	2MM4AX31	Х						2				2		C4	0	28	28	22	50
32	Optional course OP 24	2MM4AX32	Х					1	1				2		C4	14	14	28	22	50
33	Physical education and sport IV	2MM4OX33	Х						1				1		A/R	0	14	14	0	14
34	Practical training, I, 30x3 hours/week	2MM4OD34	D										4		C4	0	90	90	0	90
	TOTAL SECOND YEAR	ł		13	8	6	1	12	8	8	0	30	30 0	7E-	+8C	350	524	874	619	1493

STUDY PLAN valid beginning with academic year 2018-2019

Rector

Professor eng., Ph.D. Sorin Mihai RADU

Dean,

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No.	THIRD YEAR	Courses Course code type		S	eme	ster	1	S	eme	ster	2	Credit	points	Ei, Ci, Vi		No. of ł	nours per	discipline	Hours for individual	Total of hours
	Courses		• J P•	С	S	L	Р	С	S	L	Р	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total	study	
35	Finite elements analysis	2MM5OS35	D	2		1						4		C5		28	14	42	58	100
36	Legal metrology	2MM5OD36	S	2		2						4		C5		28	28	56	44	100
37	Fluid mechanics and hydraulic machines	2MM50D37	D	3	1	1						5		E5		42	28	70	55	125
38	Machine parts II	2MM50D38	D	2		2						5		E5		28	28	56	69	125
39	Machine parts - project	2MM5OD39	D				2					2		C5		0	28	28	22	50
40	Optional course OP 31	2MM5AD40	D	2		2						5		E5		28	28	56	69	125
41	Reliability and maintenance	2MM5OS41	S	2		2						5		E5		28	28	56	69	125
42	Hydraulic and pneumatic drives	2MM6OD42	D					2		1			4		E6	28	14	42	58	100
43	Hydraulic and pneumatic drives (project)	2MM6OD43	D								2		2		C6	0	28	28	22	50
44	Labour protection in mining industry	2MM6OS44	S					2		2			4		E6	28	28	56	44	100
45	Mining technologies	2MM6OS45	S					3		1			4		E6	42	14	56	44	100
46	Computer Aided Design	2MM6OD46	D					3		2			5		E6	42	28	70	55	125
47	Tribology	2MM6OD47	D					2		2			4		C6	28	28	56	44	100
48	Optional course OP 32	2MM6OS48	S					2	2				3		C6	28	28	56	19	75
49	Practical training, II, 30x3 hours/week	2MM6OS49	S										4		C6	0	90	90	0	90
	TOTAL THIRD YEAR			13	1	10	2	14	2	8	2	30 6	30 0	8E-	+7C	378	440	818	672	1490

Rector, Professor eng.,Ph.D. Sorin Mihai RADU

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STUDY PLAN valid beginning with academic year 2018-2019

	Courses code	Course type	S	emes	emester 1 Semester 2 Credit points Ei, Ci, Vi No. of hours per discipline							discipline	Hours for individual	Total of hours					
Courses	coue	cype	С	S	L	Р	С	S	L	Р	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total	study	
bric. technologies for mining equipm. I	2MM7OS50	S	3		1						4		C7		42	14	56	44	100
q. for industrial processes I (project)	2MM7OS51	S	2		2						4		C7		28	28	56	44	100
ining loading and transp. equipm. I	2MM7OS52	S	3		2						5		E7		42	28	70	55	125
ining machines and installations I	2MM7OS53	S	3		1	1					6		E7		42	28	70	80	150
ining mechanization	2MM7OS54	S	3		1	1					6		E7		42	28	70	80	150
ptional course OP 41	2MM7OS55	S	2		1						5		E7		28	14	42	83	125
bric. technologies for mining equipm. II	2MM8OS56	S					3		2			5		E8	42	28	70	55	125
ining loading and transp. equipm. I	2MM8OS57	S					3			1		4		E8	42	14	56	44	100
ptional course OP 42	2MM8OS58	S					3		2			4		C8	42	28	70	30	100
ining machines and installations II	2MM8OS59	S					3		1			4		E8	42	14	56	44	100
brication eng. of process equipm.	2MM8OS60	S					3		1			4		C8	42	14	56	44	100
actical training for elab. of grad. paper	2MM8OS61	S										5		C8		60	60	65	125
aboration of graduation paper	2MM8OS62	S								4		4		C8		56	56	69	125
TOTAL FOURTH YEAR				0	8	2	15	0	6	5	30	30	7E-	+6C	434	354	788	737	1525
	bric. technologies for mining equipm. I . for industrial processes I (project) ning loading and transp. equipm. I ning machines and installations I ning mechanization otional course OP 41 bric. technologies for mining equipm. II ning loading and transp. equipm. I otional course OP 42 ning machines and installations II brication eng. of process equipm. actical training for elab. of grad. paper aboration of graduation paper	bric. technologies for mining equipm. I 2MM7OS50 . for industrial processes I (project) 2MM7OS51 ning loading and transp. equipm. I 2MM7OS52 ning machines and installations I 2MM7OS53 ning mechanization 2MM7OS54 otional course OP 41 2MM7OS55 bric. technologies for mining equipm. II 2MM8OS56 ning loading and transp. equipm. 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I 2MM80S57 S 3 1 4 E8 42 vitional course OP 42 2MM80S58 S 3 3 1 4 E8 42 ning machines and installations II 2MM80S60<!--</td--><td>bric. technologies for mining equipm. I 2MM70S50 S 3 1 I 4 C7 42 14 . for industrial processes I (project) 2MM70S51 S 2 2 4 C7 28 28 ning loading and transp. equipm. I 2MM70S52 S 3 2 4 C7 42 28 ning machines and installations I 2MM70S53 S 3 1 1 6 E7 42 28 ning mechanization 2MM70S55 S 3 1 1 6 E7 42 28 ning mechanization 2MM70S55 S 2 1 6 E7 42 28 ning mechanization 2MM70S55 S 2 1 6 E7 42 28 ning loading and transp. equipm. II 2MM80S56 S 2 1 4 E8 42 14 trional course OP 42 2MM80S58 S 3 2 4 C8 42 28 ning machines and installations II 2MM80S60 S</td><td>bric. technologies for mining equipm. I 2MM7OS50 S 3 1 4 C7 42 14 56 . for industrial processes I (project) 2MM7OS51 S 2 2 4 C7 28 28 56 ning loading and transp. equipm. 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Rector, Professor eng.,Ph.D. Sorin Mihai RADU

Faculty of MECHANICAL AND ELECTRICAL ENGINEERING Field **MECHANICAL ENGINEERING**

Study program MINING MACHINES AND EQUIPMENT

ENGINEERS - FULL TIME, 4 years x 2 sem./yr x 14 weeks/sem. x 28 hours/wee,k 3 weeks exam. per.

STUDY PLAN valid beginning with academic year 2018-2019

							Opt	iona	al co	ours	es									
Nr. crt.	Courses code	Year of study												Co	urses					
15	OP11	Ι	English Language French Lar										Fre	nguage			sh language			
23	OP21	II	English Language French Lan										Fre	nguage			Spanis	sh language		
25	OP22	II					Nun	nerio	cal r	neth	nods	5					Spec	ial Mathema	atics	
31	OP23	II	English Language French Lan										Fre	nguage			Spanis	h language		
32	OP24	II	Ethics and academic integrity									egrity				Enviro	onment prote	ection		
40	OP31	III	Electrotechnics												Ele	ctrical en	gineering ar	nd machines		
48	OP32	III	Quality engineering											Industrial management						
55	OP41	IV	Mechanical cutting of non-homogenous materials										naterial		Н	igh press	ure jet cuttir	ng of rocks		
58	OP42	IV	Materials recovery and reuse									reuse			U	nconventi	ional tech	nologies in	machine fabi	rication
						F	acu	ltati	ive c	cour	ses									
No.	Courses	Cod aiscipi.	Year of	G	eme	ster	1	Semester 2				Credit points			Ci, Vi		÷	discipline	Hours for individual	Total of hours
			study	C	S	L	Р	С	S	L	Р	Sem.1		Sem.1		Cours	Apl.	Total	study	
62	General economy	2MM4LX62						2	2				4		C4	28	28			100
63	Experimental techniques in mech. Eng.	2MM5LS63	III	2		2						3		C5		28	28	56	19	75
64	Mining machinery maintenance	2MM6LS64	III					2		1		3		C5		28	14	42	33	75
65	Foreign languages 5	2MM6LX65	III						2				2		C6	0	28	28	22	50
66	Ingineria sistemelor de producție	2MM7LS66	IV	2	1							3		C7		28	14	42	33	75
67	Manipulators and robots	2MM7LS67	IV	2		2						4		C7		28	28	56	44	100
68	Energy ballances in mining	2MM8LS68	IV					2		2			4		C8	28	28	56	44	100

Rector,

Professor eng., Ph.D. Sorin Mihai RADU

Dean,

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ENGINEERS - FULL TIME, 4 years x 2 sem./yr x 14 weeks/sem. x 28 hours/wee,k 3 weeks exam. per.

STUDY PLAN valid beginning with academic year 2018-2019

		DISTRIB	UTIO	N OF H	OURS	BY SUBJECT	GROUPS				
Total course hours :							1484				
Total hours of applications :							1780				
Total teaching hours:							3264				
Total teaching hours / Total hours (%) :		3264	/ :	3264	х	100		100,00			
Total hours of applications / Total hours (%):	1780	/ :	3264	х	100		54,53			
Total course hours / Total hours of applicat	ions (%) :	1484	/	1780	х	100		83,37			
SUBJ	ECTS GRUP					N	o. hours	No. Hours/Total hours (%)			
Fundamental subjects F							602	18,44			
Engineering subjects in the field D							1238	37,93			
Specialized technical subjects S							1158	35,48			
Complementary subjects		lucation and s and humanist	266	84 154	8,15						
	TOTAL						3264	100,00			
Required subjects				2872	87,99						
Optional subjects							392	12,01			
Optional subjects							336 10,29				

Comments: For 1 credit point of the discipline 25 hours are granted for the didactic preparation and individual study of the student.

Caption: **2** - Faculty: Mechanical and Electrical Engineering; **B** - industrial engineering; **B** - Machine Building Technology;

F - fundamental discipline; D - domain discipline; S - specialized discipline; X - complementary discipline; A - optional discipline; C - class; S - seminar;

L - laboratory; P - project; Ex.($E_{1...8}$) - exam held in the semester 1...8; Cv.($C_{1...8}$) - colloquium held in the semester 1...8, A/R - PASS / FAIL.

Rector,

Professor eng., Ph.D. Sorin Mihai RADU