UNIVERSITY OF PETROȘANI
FACULTY OF MINES

CURRICULUM

(valid starting with the academic year **2026-2027**)

Field: **Mines, Oil and Gas**

Study programme: **Mining Engineering**

Graduate title: **Engineer**

Duration of studies: **8 semesters**

Form of education: **full-time (IF)**

I. Requirements for obtaining the diploma

240 credits, of which:

- credits for compulsory subjects: **211**
- credits for optional subjects: **29**

4 credits for the subject Physical Education

10 credits for passing the diploma examination

Rector,
Prof. PhD Eng. RADU Sorin Mihai

II. Course of studies (in number of weeks)

Year	Teaching activities		Exam sessions			Holiday		
	Sem. I	Sem. II	I	V	R	Winter	Inter-semester	Summer
Year I	14	14	3	3	2	3	1	12
Year II	14	14	3	3	2	3	1	12
Year III	14	14	3	3	2	3	1	12
Year IV	14	14	3	3	2	3	1	-

III. Number of hours per week

	Sem. I	Sem. II
Year I	26	26
Year II	27	27
Year III	28	28
Year IV	27	25

IV. Diploma examination

Period for the diploma examination: **June-July session, September session**
Content of the diploma examination:

- Test 1: Assessment of fundamental and specialist knowledge - **5 credits**
- Test 2: Presentation and defence of the diploma project - **5 credits**

V. Method of choosing the optional subjects

One subject is chosen from the package of optional subjects for each semester.

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

Mission of the Mining Engineering study programme

The mission of the bachelor's study programme "**Mining Engineering**" is consistent with the mission assumed by the University of Petroșani at academic, socio-economic, regional and national level in a European context and by the Faculty of Mines, and targets:

- ***the teaching (educational) mission***, whose main objective is to train highly qualified specialists able to manage complex processes of extraction and processing of mineral resources. Providing a solid theoretical basis in fundamental subjects (mathematics, physics, chemistry) and specialist subjects (geology, rock mechanics, surface and underground mining, mine ventilation, surveying). Developing technical skills through internships in mining units, the use of design and simulation software, and laboratory activities. Training engineers able to use state-of-the-art technologies, such as automation, mine digitalisation and the use of drones for deposit monitoring. Acquiring the principles of economic management and of mining and environmental legislation, essential for leading large-scale projects.
- ***the scientific research mission***, consisting in organising and carrying out, under legal conditions, scientific research, technological development, design, consultancy and expertise activities. The programme aims to become an innovation hub, contributing to the technical progress of the mining sector through applied and fundamental research. Developing more efficient mining methods that maximise the recovery rate of useful mineral substances. Advanced research in blasting engineering, rock mechanics, ventilation and work accident prevention. Identifying solutions for "Green Mining" – reducing the carbon footprint, responsible management of extractive waste and environmental restoration after mine closure. Participating in European research projects and partnerships with major industrial companies to align Romanian research with global standards.
- ***the civic and cultural mission***: beyond the technical aspect, the Mining Engineering programme has a profound social role, especially in regions with an extractive tradition (such as the Jiu Valley). Promoting and preserving mining traditions, the industrial heritage and the culture specific to this centuries-old profession. Educating future engineers in the spirit of professional ethics, valuing the protection of local communities and constructive dialogue with social partners. The university's participation in regional development strategies and economic reconversion of mining areas, providing expertise for urban regeneration projects. Raising public awareness of the vital role that mineral raw materials play in the energy transition (critical metals for green technologies) and in everyday life.

Objectives of the Mining Engineering study programme

The objectives of the Mining Engineering study programme are designed to create an educational and research ecosystem that responds to the current requirements of the labour market and global technological progress.

- ***training specialists*** has as its fundamental objective the transformation of students into engineers able to manage the entire life cycle of a mining operation. Acquiring solid knowledge of geology, rock mechanics, mine surveying, mining construction, underground and surface mining, mine ventilation and occupational safety, mineral processing, etc. Training in the use of computer-aided design (CAD) software, numerical simulation and

real-time monitoring systems. Developing a vision focused on "Mining for the future", which includes environmental protection, land rehabilitation and energy efficiency.

- ***employment of graduates*** according to the competences acquired in the field of mining engineering: graduates of the "**Mining Engineering**" specialisation have employment opportunities in underground mining operations or in quarries for surface mining, in design institutes in the field and in education, as well as in companies whose activity is the exploitation of mineral resources. The programme targets a high rate of professional insertion by directly correlating the curriculum with employers' requirements.
- ***growing, training and modernising*** an elite university teaching staff, producing research that aims to have scientific prestige and an active influence on industrial modernisation and cultural progress. The quality of the educational act depends directly on the level of training of the teaching staff, which involves:
  - continuous improvement through teachers' participation in specialisation courses, international conferences and experience exchanges;
  - integrating research into teaching, by bringing before students the latest discoveries and results from the teachers' own research projects;
  - elite standards by promoting meritocracy and supporting young teaching staff to obtain higher academic titles and international recognition.
- ***developing research projects*** within the regional socio-economic development programme, with practical applicability in the industrial processes of economic operators;
- ***developing partnerships*** based on protocols on education and research issues with universities in Romania and abroad, and mobility of teaching staff and students;
- ***partnerships with EU countries*** for accessing international teaching and research programmes financed from European funds.

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROȘANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING, MINE SURVEYING**

CURRICULUM

No. crt.	YEAR I Subject	Subject code	Subj. type	Semester 1				Semester 2				Credit points		Ei, Ci, Vi		No. of teaching hours per subject			Total individual study hours	Total subject hours
				C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem.1	Sem.2	Lect.	Appl.	Total		
1	Mathematical Analysis	MNTCFO101	F	2	2							5		E1		28	28	56	69	125
2	Linear Algebra, Analytic and Differential Geometry	MNTCFO102	F	2	2							5		E1		28	28	56	69	125
3	Chemistry	MNTCFO103	F	2		2						5		E1		28	28	56	69	125
4	Applied Computer Science I	MNTCFO104	F	2		2						4		E1		28	28	56	44	100
5	Descriptive Geometry	MNTCFO105	F	2		3						5		E1		28	42	70	55	125
6	Physical Education and Sport I	MNTCCO106	C		1							1		V1		0	14	14	11	25
7	Foreign Language I	MNTCCO107	C		2							2		C1		0	28	28	22	50
8	Ethics and academic integrity	MNTCCO108	C	1	1							3		C1		14	14	28	47	75
9	Optional subject OP 11	MNTCFO109	F					2	2				5		E2	28	28	56	69	125
10	Optional subject OP 12	MNTCFO110	F					2		1			4		E2	28	14	42	58	100
11	Physics	MNTCFO111	F					2		2			5		E2	28	28	56	69	125
12	Mechanics	MNTCFO112	F					2	2				4		E2	28	28	56	44	100
13	Applied Computer Science II	MNTCFO113	F					2		2			4		E2	28	28	56	44	100
14	Technical Drawing and Computer Graphics	MNTCFO114	F					2		2			5		C2	28	28	56	69	125
15	Physical Education and Sport II	MNTCCO115	C						1				1		V2	0	14	14	11	25
16	Foreign Language II	MNTCCO116	C						2				2		C2	0	28	28	22	50
TOTAL YEAR I				11	8	7	0	12	7	7	0	30	30	10E + 4C+2V		322	406	728	772	1500
				26				26				60								

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROŞANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING, MINE SURVEYING**

CURRICULUM

No. crt.	YEAR II Subject	Subject code	Subj. type	Semester 3				Semester 4				Credit points		Ei, Ci, Vi		No. of teaching hours per subject			Total individual study hours	Total subject hours
				C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem.1	Sem.2	Lect.	Appl.	Total		
17	Prospecting and Exploration	MNTCFO217	F	2		2						5		E3		28	28	56	69	125
18	Electrical Engineering	MNTCFO218	F	2		2						5		E3		28	28	56	69	125
19	Surveying	MNTCFO219	F	3		2						5		E3		42	28	70	55	125
20	Optional subject OP 21	MNTCFO220	F	2		1						4		E3		28	14	42	58	100
21	General and Stratigraphic Geology	MNTCFO221	F	3		2						4		C3		42	28	70	30	100
22	Underground Mining	MNTCFO222	F	2		1						4		E3		28	14	42	58	100
23	Physical Education and Sport III	MNTCCO223	C		1							1		V3		0	14	14	11	25
24	Foreign Language III	MNTCCO224	C		2							2		C3		0	28	28	22	50
25	Strength of Materials	MNTCFO225	F					2		1			4		E4	28	14	42	58	100
26	Mineralogy and Petrology	MNTCFO226	F					3		2			4		E4	42	28	70	30	100
27	Rock Mechanics	MNTCFO227	F					2		2			4		E4	28	28	56	44	100
28	Surface Mining I	MNTCFO228	F					2		2			4		E4	28	28	56	44	100
29	Underground Mining Construction	MNTCFO229	F					2		2			4		E4	28	28	56	44	100
30	Environmental Protection	MNTCFO230	F					2		2			3		C4	28	28	56	19	75
31	Foreign Language IV	MNTCCO231	C						2				2		C4	0	28	28	22	50
32	Physical Education and Sport IV	MNTCCO232	C						1				1		V4	0	14	14	11	25
33	Field internship (3 wks. x 30 hrs/wk.)	MNTCFO233	F								90		4		C4	0	90	90	10	100
TOTAL year II				14	3	10	0	13	3	11	90	30	30	10E + 5C+2V		378	468	846	654	1500
												60								

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROŞANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING**

CURRICULUM

No. crt.	**YEAR III** Subject	Subject code	Subj. type	Semester 5				Semester 6				Credit points		Ei, Ci, Vi		No. of teaching hours per subject			Total study hours individual	Total hours code
				C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem.1	Sem.2	Lect.	Appl.	Total		
34	Mine Surveying	MNIMSO334	S	2		1						3		E5		28	14	42	33	75
35	Rock Mechanics II	MNIMSO335	S	2		2						4		E5		28	28	56	44	100
36	Underground Mining Construction II	MNIMSO336	S				2					3		C5		0	28	28	47	75
37	Surface Mining II	MNIMSO337	S	2		1						3		E5		28	14	42	33	75
38	Underground Mining II	MNIMSO338	S	2		1						4		E5		28	14	42	58	100
39	Economic Geology	MNIMSO339	S	3		2						5		C5		42	28	70	55	125
40	Strength of Materials II	MNIMSO340	S	3		2						5		E5		42	28	70	55	125
41	Industrial Explosives	MNIMSO341	S	2		1						3		E5		28	14	42	33	75
42	Geostatistics and Deposit Evaluation	MNIMSO342	S					2		2			4		E6	28	28	56	44	100
43	General Hydraulics	MNIMSO343	S					2	2				4		C6	28	28	56	44	100
44	Thermal Engineering	MNIMSO344	S					2		2			4		E6	28	28	56	44	100
45	Surface Mining III	MNIMSO345	S					2		2			4		E6	28	28	56	44	100
46	Underground Mining III	MNIMSO346	S					2		1			3		C6	28	14	42	33	75
47	Physico-chemistry of Deposits	MNIMSO347	S					3		2			4		E6	42	28	70	30	100
48	Machine Elements	MNIMSO348	S					2		2			3		C6	28	28	56	19	75
49	Specialised internship (3 wks. x 30 hrs/wk.)	MNIMSO349	S								90		4		C6	0	90	90	10	100
TOTAL year III				16	0	10	2	15	2	11	0	30	30	10E + 6C		434	440	874	626	1500
												60								
50	Geodetic Instruments and Measurement Methods	MNIMFX250	X	2		2						6		E3		28	28	56	94	150
51	Geodesy	MNIMFX251	X	2		2						5		E3		28	28	56	69	125
52	Theory of Errors	MNIMFX252	X					2		2			5	E4		28	28	56	69	125
53	Cadastre	MNIMFX253	X					2		2			3	E4		28	28	56	19	75

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROŞANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING**

CURRICULUM

No. crt.	**YEAR IV** Subject	Subject code	Subj. type	Semester 7 C	S	L	P	Semester 8 C	S	L	P	Credit points Sem.1	Sem.2	Ei, Ci, Vi Sem.1	Sem.2	No. of teaching hours per subject Lect.	Appl.	Total	Total study hours individual	Total hours code
54	Surface Mining IV	MNIMSO454	S				2					3		C7		0	28	28	47	75
55	Underground Mining IV	MNIMSO455	S				2					3		E7		0	28	28	47	75
56	Occupational Safety and Health	MNIMSO456	S	2		2						4		E7		28	28	56	44	100
57	Mine Ventilation	MNIMSO457	S	2		1						4		E7		28	14	42	58	100
58	Optional subject OP 41	MNIMSO458	S	2	2							3		C7		28	28	56	19	75
59	Mineral Resources Processing Techniques and Technologies	MNIMSO459	S	2		1						3		E7		28	14	42	33	75
60	Mining Machinery	MNIMSO460	S	2		1						3		C7		28	14	42	33	75
61	Computer-Aided Mine Design	MNIMSO461	S	2		1						4		E7		28	14	42	58	100
62	Mine Transport and Installations	MNIMSO462	S	2		1						3		E7		28	14	42	33	75
63	Closure of Mining Units	MNIMSO463	S					2	2				4		C8	28	28	56	44	100
64	Dewatering Techniques and Procedures	MNIMSO464	S					2		1			3		E8	28	14	42	33	75
65	Unconventional Technologies in Deposit Exploitation	MNIMSO465	S					2		1			4		E8	28	14	42	58	100
66	Optional subject OP 42	MNIMSO466	S					2		1			3		E8	28	14	42	33	75
67	Optional subject OP 43	MNIMSO467	S					2		1			4		E8	28	14	42	58	100
68	Optional subject OP 44	MNIMSO468	S					2	1				3		C8	28	14	42	33	75
69	Internship for diploma project preparation	MNIMSO469	S										5		C8	0	60	60	65	125
70	Preparation of the diploma project	MNIMSO470	S								6		4		C8	0	84	84	16	100
TOTAL year IV				14	2	7	4	12	3	4	6	30	30	10E + 7C		364	424	788	712	1500
												60								
71	Numerical Modelling of Rocks and Structures	MNIMFX471	X	2		2						5		E3		28	28	56	69	125
72	Processing of Ornamental Stone	MNIMFX472	X	2		2						4		C3		28	28	56	44	100
73	Rock Breaking Techniques	MNIMFX473	X					2		2			5	E4		28	28	56	69	125
74	Engineering Surveying	MNIMFX474	X					2		1			5	E3		28	14	42	83	125

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROŞANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING**

OPTIONAL SUBJECTS				
No.	Subject code	Year of study	Subject names	
9	OP11	I	Numerical Analysis	Probability Theory and Mathematical Statistics
10	OP12	I	Materials Technology	Materials Science
20	OP 21	II	Management	Computer-Aided Design
58	OP 41	IV	Groundwater Hydraulics	Fluid Mechanics
66	OP42	IV	Optimisation of Mining Methods and Technologies	Mining Sites and Premises
67	OP43	IV	Stability of Slopes and Hillsides	Risk Assessment in the Mining Industry
68	OP44	IV	Mineral Resources Market	Organisation and Management of Mining Works

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

UNIVERSITY OF PETROŞANI
Faculty of **MINES**
Field **MINES, OIL AND GAS**
Study programme **MINING ENGINEERING**

DISTRIBUTION OF HOURS BY SUBJECT GROUPS						
Total lecture hours:	**1526**					
Total application hours:	**1794**					
Total hours:	**3320**					
Total lecture hours / Total hours (%):	1526	/	3320	x 100		**45.96**
Total application hours / Total hours (%):	1794	/	3320	x 100		**54.04**
Total lecture hours / Total application hours (%):	1526	/	1794	x 100		**85.06**
SUBJECT GROUPS	No. hours					No. hours/Total hours (%)
Fundamental subjects DF	**574**					**17.29**
Technical specialisation subjects DS	**2550**					**76.80**
Optional subjects DOP	**350**					**10.54**
Complementary subjects DC	**196**					**5.90**

REMARKS: Hours of subjects marked with (*) are not counted
For one credit point, 25 teaching and individual study hours are allocated

LEGEND: DF - fundamental subject, DS - specialisation subject, DC - complementary subject
DOB - compulsory subject, DOP - optional subject (by choice), DFA - elective subject (free)
C - lecture, S - seminar, L - laboratory, P - project, Apl - application hours
Ei, Ci, Vi - exam, colloquium, verification respectively in semester i, i =1 ÷ 8

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

Basic group from COR/ISCO-08/ESCO representative of the Mining Engineering study programme

2146 Mining engineers, petroleum engineers, metallurgists and related professionals

Target occupations from the representative COR/ESCO basic group of the Mining Engineering study programme

Occupation title (COR)	COR code	Similar occupation title (ESCO)	ESCO code
Mining engineer	214602	Mine development engineer	2146.6
Mineral processing engineer	214605	Quarry engineer	2146.11
Mining engineering advisor	214610	Mine development engineer	2146.6
Mining engineering expert	214611	Mine development engineer	2146.6
Specialist inspector, mining engineer	214612	Mine health and safety engineer	2146.7
Specialist officer, mining engineer	214613	Mining assessor	2146.1
Mining design engineer	214624	Mine planning engineer	2146.8
Mining operations researcher	214626	Mine planning engineer	2146.8
Mining operations research engineer	214627	Mine planning engineer	2146.8

Competences for the Mining Engineering study programme

Professional competences

CP1. approaches problems critically
CP2. procures mechanical machinery
CP3. analyses raw ores
CP4. applies laboratory safety procedures
CP5. ensures compliance with safety legislation
CP6. develops alternative mining methods
CP7. develops mine health and safety strategies
CP8. performs geological exploration
CP9. performs laboratory tests
CP10. evaluates operating expenses
CP11. evaluates mining development projects
CP12. deals with exceptional circumstances in the mining sector
CP13. copes with pressure arising from unexpected circumstances
CP14. trains employees on mine safety
CP15. generates reconciliation reports
CP16. manages waste rock
CP17. manages staff
CP18. manages emergency procedures
CP19. makes independent operational decisions
CP20. identifies process improvements
CP21. identifies customer needs
CP22. inspects mine safety conditions
CP23. installs mining machinery
CP24. interprets manuals of

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

mining mechanical machinery
CP25. prepares work reports
CP26. maintains mining machinery
CP27. investigates mining accidents
CP28. maintains mine site plans

CP29. monitors mining costs

CP30. monitors mining production
CP31. monitors workers' health

CP32. negotiates land acquisition
CP33. advises on mine development
CP34. advises on mining equipment
CP35. advises on mining production
CP36. advises on geology for mineral extraction

CP37. plans mining production
CP38. prevents health and safety problems
CP39. designs mining waste disposal
CP40. writes technical reports
CP41. separates metals from ores
CP42. supervises mine planning activities
CP43. supervises mine construction operations
CP44. keeps records of mining operations
CP45. uses mine planning software

Transversal competences

CT1. takes responsibility
CT2. works in teams
CT3. is attentive to detail
CT4. complies with regulations
CT5. solves problems
CT6. plans
CT7. organises information, objects and resources

Learning outcomes for the Mining Engineering study programme
Knowledge generated by the learning outcomes for the Mining Engineering study programme

The graduate of the bachelor's programme in Mining Engineering demonstrates the ability to use scientific, technical and managerial knowledge for the analysis, design, operation and monitoring of mining activities, under conditions of safety, economic efficiency and sustainable development.

The student/graduate is able to:

C1. analyse and interpret geological, geomechanical and mining data to characterise deposits and rock masses;
C2. apply principles of rock mechanics and geotechnical engineering in the design of mining works;
C3. select and use appropriate technologies for the extraction, transport and processing of mineral substances;
C4. use measuring instruments and mine surveying methods to control and monitor operations;
C5. apply occupational safety and health procedures in mining and laboratory activities;
C6. use specialised software for planning, modelling and monitoring mining activities;
C7. evaluate the technical and economic performance of mining projects;
C8. manage material, human and financial resources within mining operations;
C9. identify and assess the technical, geotechnical and environmental risks associated with mining activities;
C10. prepare technical documentation, reports and work plans specific to the field;

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba

C11. apply the principles of sustainable development and environmental protection in the mining industry;
C12. collaborate effectively in multidisciplinary teams and communicate technical results in a structured way;
C13. explain the principles and rules of professional ethics and academic integrity applicable to all engineering and research activities.

Skills generated by the learning outcomes for the Mining Engineering study programme

Upon completion of the bachelor's programme in **Mining Engineering**, the graduate demonstrates the following **professional skills**:

A1. applies engineering methods for analysing and solving technical problems specific to mining operations;
A2. performs specific measurements and interprets the data obtained for the control of mining works;
A3. uses methods for the geological and geotechnical characterisation of deposits and rock masses;
A4. selects and uses appropriate technologies for the extraction, transport and processing of mineral substances;
A5. uses mining machinery, equipment and installations in accordance with technical instructions and safety rules;
A6. applies occupational safety and health procedures in mining operations;
A7. uses specialised software for the design and monitoring of mining activities;
A8. plans and monitors mining production according to technical and economic conditions;
A9. evaluates the costs, performance and economic efficiency of mining activities;
A10. identifies geotechnical, technological and environmental risks and proposes measures to prevent and reduce them;
A11. manages mining waste and applies environmental protection solutions;
A12. prepares technical documentation, work reports and engineering reports specific to the field;
A13. investigates mining events and accidents and formulates technical recommendations;
A14. uses statistical analysis methods to interpret and validate experimental data;
A15. collaborates effectively in multidisciplinary teams and communicates technical results in a structured way;
A16. uses critical reasoning in making current technical decisions;
A17. adapts technical solutions to variable conditions and unforeseen situations in the mining environment;
A18. applies operational management principles in organising mining activities;
A19. uses digital tools for monitoring production, costs and performance;
A20. complies with legal requirements, technical regulations and ethical principles in practising the profession.

Responsibilities generated by the learning outcomes for the Mining Engineering study programme

Upon completion of the bachelor's programme in Mining Engineering, the graduate demonstrates the ability to take on professional responsibilities and autonomy in well-defined technical contexts, being able to:

RA1. take responsibility for technical decisions made in current mining activities;
RA2. comply with and apply the legislation specific to the mining field, occupational safety and health rules and environmental regulations;

RA3. act responsibly in preventing mining accidents and incidents;
RA4. participate actively in organising and coordinating activities within mining operations;
RA5. manage individual and team professional tasks, meeting the established deadlines and objectives;
RA6. communicate technical information effectively to superiors, colleagues and other stakeholders;
RA7. show ethical conduct and professional integrity in all engineering activities;
RA8. contribute to implementing environmental protection measures and the responsible use of natural resources;
RA9. monitor compliance with occupational safety and health procedures at operational level;
RA10. participate in managing emergency situations and risks within mining operations;
RA11. take responsibility for the quality of the technical documentation and reports prepared;
RA12. adapt to the changing technological and organisational requirements of the mining industry;
RA13. collaborate with specialists from other fields in multidisciplinary projects;
RA14. use digital tools, data and technical information responsibly;
RA15. contribute to the continuous improvement of technological and organisational processes;
RA16. take responsibility for training and informing staff on safety rules;
RA17. respect the principles of sustainable development in mining activities;
RA18. act autonomously in solving routine technical problems;
RA19. manage his/her own process of lifelong learning and professional development;
RA20. represent the mining engineering profession with responsibility and respect for society.

Rector,
Prof. PhD Eng. RADU Sorin Mihai

Dean,
Assoc. Prof. Habil. PhD Eng. LORINȚ Csaba