# **PLAN OF STUDIES**

FACULTY: Geoengineering, Mining, and Geology

MAIN FIELD OF STUDY: mining and geology

**EDUCATION LEVEL:** 2<sup>nd</sup> level, magister studies

FORM OF STUDIES: full-time

**PROFILE:** general academic

SPECIALIZATION: Exploratory and Mining Geology

LANGUAGE OF STUDY: Polish

Geoengineering, Mining, and Geology Faculty Council Resolution of 05.09.2012

In effect since 01.10.2012

\*delete as applicable

Plan of studies structure in hourly layout 2<sup>nd</sup> level full-time studies in the field of mining and geology, specialization: Exploratory and Mining Geology

sem./ hrs.	1	ETCS points	2	ECTS points	3	ECTS points
1 2	Physics – The Structure of Matter 20000 Z FZP1013	2			Methods for Mineral Resources	2
3	Foreign Language	2	Geophysics 20021 E GGG2306	6	Examination 20100 E GGG4408	2
4 5	03000 Z				Geological and Mining	
6	Foreign Language 01000 Z	1	Geology of Mineral		Conditions of Exploitation	3
7 8			Deposits I 20101 E GEG2306	5	30110E GEG3304	
9 10	Geochemistry 30201 E CHG1303	7	Geology of Mineral		Finance Management 11100 E ZMG3301	3
11 12 13			Deposits II 10201 E GEG2307	5	Environment Management 10001Z OSG3303	2
13 14 15	Mineral Deposits Exploration and Reconnaissance Methodology 22001 E GEG1312	7			Economic Geology 10001 Z GEG3305	2
16 17	GEG1312		Mining Geology 20210 E GEG2308	6	Diploma Seminar 00002 Z GGG3310	1
18	Computer Applications in Geological Works	3			Occupational Safety and Health	2
19	10100 Z ING1305	5			10100 Z GGG3308	2
20 21	Geostatistics	_	Ore Body Modelling 10200 Z	3	Diploma Dissertation GGG3312	15
22 23	10300 Z GEG1311	5	Optional Course 20000 Z	3	0003312	
24	Optional Course	3	Liberal-Managerial Subjects 10000 Z	1		
25	20000 Z	-	Diploma Seminar 00001 Z GGG2303	1		
Total		30		30		30

# 1. Set of obligatory and optional courses and groups of courses in semestral arrangement Semester 1

No	Course/group	Name of course/group of courses	We	ekly	numb	er of	hours	Field-of-	Numbe	er of hours	Numb	er of ECTS points	Form <sup>2</sup> of	2	υ	oup of cou	rses	
	of courses code	(denote group of courses with symbol <b>GK</b> )	lec	cl	lab	pr	sem	study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	CHG1303	Geochemistry	3		2		1	K_W04 K_U06 K_K06	90	210	7	4,5	Т	E, Z			S	Ob
2	GEG1312	Mineral Deposits Exploration and Reconnaissance Methodology	2	2			1	K_W03 K_U02 K_K01, 02	75	210	7	5,5	Т	E, Z			S	Ob
3	ING1305	Computer Applications in Geological Works	1		1			K_W03 K_U02 K-K01, 02	30	90	3	2,5	Т	Z			S	Ob
4	GEG1311	Geostatistics	1		3			K_W01, 08 K_U01, 07	60	150	5	3	Т	Z			S	Ob
5	FZP1013	Physics-The Structure of Matter	2					K_W02	30	60	2	2	Т	Z			PD	Ob
		Total	9	2	6		2		285	720	24	17,5						

### **Obligatory courses number of ECTS points 24**

## **Optional courses (minimum 90 hours in semester, 6 ECTS points)**

No	Course/group	Name of course/group of courses	We	ekly	numb	er of	hours	Field-of-	Numbe	r of hours	Numb	er of ECTS points	Form <sup>2</sup> of		0	oup of cou	rses	
	of courses code	(denote group of courses with symbol <b>GK</b> )	lec	cl	lab	pr	sem	study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	JZL000000BK	Foreign Language		3				K_U14	45	60	2	1	Т	Z	0		KO	W
2	JZL000000BK	Foreign Language		1				K_U13	15	30	1	0,5	Т	Z	0		KO	W
3	GEG104262	Optional Course	2						30	90	3		Т	Z			S	W
		Total	2	4					90	180	6	1,5						

<sup>1</sup>BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

 $^{2}$ Traditional – enter T, remote – enter Z

 ${}^{3}Exam$  – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)  ${}^{4}University$ -wide course /group of courses – enter O

<sup>5</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses

<sup>6</sup> KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

<sup>7</sup> Optional – enter W, obligatory – enter Ob

#### Altogether in semester

	Tota	l number of	hours		Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	Number of ECTS points for BK classes <sup>1</sup>
lec	cl	lab	pr	sem				
11	6	6		2	375	900	30	19

<sup>&</sup>lt;sup>1</sup>BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students
<sup>2</sup>Traditional – enter T, remote – enter Z
<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)
<sup>4</sup>University-wide course / group of courses – enter O
<sup>5</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses
<sup>6</sup>KO – general education, PD – basic sciences, K – field-of-studies, S – specialization
<sup>7</sup>Optional – enter W, obligatory – enter Ob

# Semester 2

### **Obligatory courses number of ECTS points 25**

No.	Course/group	Name of course/group of courses	We	eekly	numb	er of	hours	Field-of-	Numbe	er of hours	Numb	per of ECTS points	Form <sup>2</sup> of	Way <sup>3</sup> of	Course/gr	oup of cour	rses	
	of courses code	(denote group of courses with symbol <b>GK</b> )	lec	cl	lab	pr	sem	study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	GGG2306	Geophysics	2			2	1	K_W05 K_U03 K_K06	75	180	6	4,5	Т	E, Z			S	Ob
2	GEG2306	Geology of Mineral Deposits I	2		1		1	K_W06 K_U05 K_K06	60	150	5	4	Т	E, Z			S	Ob
3	GEG2307	Geology of Mineral Deposits II	1		2		1	K_W06 K_U05 K_K01, 02	60	150	5	4,5	Т	E, Z			S	Ob
4	GEG 2308	Mining Geology	2		2	1		K_W07 K_U04 K_K02	75	180	6	5	Т	E, Z			S	Ob
5	GEG2309	The Ore Body Modelling	1		2			K_W08 K_U07 K_K01, 02	45	90	3	2	Т	Z			S	Ob
		Total	8		7	3	3		315	750	25	20						

# **Optional courses (minimum 60 hours in semester, 5 ECTS points)**

No.	Course/group	Name of course/group of courses	We	ekly	numb	er of	hours	Field-of-	Numbe	r of hours	Numb	per of ECTS points	Form <sup>2</sup> of	Way <sup>3</sup> of	Course/gr	oup of cour	rses	
	of courses code	(denote group of courses with symbol <b>GK</b> )	lec	cl	lab	pr		study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	PSG108838	Liberal-Managerial Subjects	1					K_W19 K_K02	15	30	1	1	Т	Z	0		КО	W
2	GEG104262	Optional Course	2						30	90	3		Т	Z			S	W
3	GGG2303	Diploma Seminar					1		15	30	1	1	Т	Z			S	W
		Total	3				1		60	150	5	2						

 $^{1}$ BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students  $^{2}$ Traditional – enter T, remote – enter Z

<sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem) <sup>4</sup>University-wide course /group of courses – enter O

<sup>5</sup>Practical course / group of courses – enter O <sup>6</sup>KO – general education, PD – basic sciences, K – field-of-studies, S – specialization <sup>7</sup>Optional – enter W, obligatory – enter Ob

#### Altogether in semester

	Tota	ll number of	hours		Total number of ZZU hours	Total number of CNPS hours	Total number of ECTS points	1
lec	cl	lab	pr	sem				
11	7		3	4	375	900	30	22

 <sup>&</sup>lt;sup>1</sup>BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students
 <sup>2</sup>Traditional – enter T, remote – enter Z
 <sup>3</sup>Exam – enter E, crediting – enter Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)
 <sup>4</sup>University-wide course / group of courses – enter O
 <sup>5</sup>Practical course / group of courses – enter P. For the group of courses – in brackets enter the number of ECTS points assigned to practical courses
 <sup>6</sup> KO – general education, PD – basic sciences, K – field-of-studies, S – specialization
 <sup>7</sup> Optional – enter W, obligatory – enter Ob

# Semester 3

# **Obligatory courses number of ECTS points 7**

No.	. Course/group	Name of course/group of courses (denote	Wee	kly nu	ımber	of ho	ours	Field-of-	Numbe	r of hours	Numb	er of ECTS points	Form <sup>2</sup> of	Way <sup>3</sup> of	Course/gr	oup of cou	irses	
	of courses code	group of courses with symbol GK)	lec	cl	lab	pr	sem	study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical5	kind <sup>6</sup>	type <sup>7</sup>
1	GEG3304	Geological and Mining Conditions of Exploitation	3		1	1		K_W09, 11, 16 K_U09, 10,19 K_K01	75	90	3	2	Т	E, Z			S	Ob
2	GEG3305	Economic Geology	1				1	K_W10 K_U10 K_K01, 02	30	60	2	2	Т	Z			S	Ob
3	GGG3308	Occupational Safety and Health	1		1			K_W11 K_U01 K_K05	30	60	2	1,5	Т	Z			S	Ob
		Total	5		2	1	1		135	210	7	5,5						

# Groups of obligatory courses number of ECTS points 7

No	Course/group	Name of course/group of courses (denote	Wee	ekly	numb	er of	hours	Field-of-	Numbe	r of hours	Numb	per of ECTS points	Form <sup>2</sup> of	Way <sup>3</sup> of	5	group of co	urses	
	of courses code			cl			sem		ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	GGG4408	Methods for Mineral Resources Examination (GK)	2		1			K_W09 K_U05, 08, 13 K_K01, 02	45	60	2	1,5	Т	E (lec), Z			S	Ob
2	ZMG3301	Finance Management (GK)	1	1	1			K_W17 K_U20 K_K01	45	90	3	2,5	Т	E (lec), Z			KO	Ob
3	OSG3303	Environment Management (GK)	1				1	K_W12 K_U12, 13 K_K05	30	60	2	1,5	Т	Z (lec)			S	Ob
		Total	4	1	2		1		120	210	7	5,5						

 ${}^{1}$ BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students  ${}^{2}$ Traditional – enter T, remote – enter Z

#### **Optional courses (minimum 75 hours in semester, 16 ECTS points)**

No.	. Course/group	Name of course/group of courses	Wee	ekly	numb	er of	hours	Field-of-	Numbe	r of hours	Numb	er of ECTS points	Form <sup>2</sup> of	•	8	oup of cou	ırses	
	of courses code	(denote group of courses with symbol GK)	lec	cl	lab	pr		study educational effect symbol	ZZU	CNPS	total	BK classes <sup>1</sup>	course/group of courses	crediting	university-wide <sup>4</sup>	practical <sup>5</sup>	kind <sup>6</sup>	type <sup>7</sup>
1	GGG3310	Diploma Seminar					2		30	30	1	1	Т	Z			S	W
2	GGG3311	Diploma Dissertation		3					45	450	15	5	Т	Z			S	W
		Total		3			2		75	480	16	6						

#### Altogether in semester

	Τc	otal number o	f hours		Total number of ZZU hours	Total number of CNPS hours		Number of ECTS points for BK classes <sup>1</sup>
lec	cl	lab	pr	sem				
9	4	4	1	4	330	900	30	17

 ${}^{1}BK$  – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students  ${}^{2}Traditional$  – enter T, remote – enter Z

## 2. Set of examinations in semestral arrangement

Course code	Names of courses ending with examination	Semester
CHG1303	1.Geochemistry	1
GEG1312	2. Mineral Deposits Exploration and Reconnaissance Methodology	1
GGG2306	1.Geophysics	2
GEG2306	2.Geology of Mineral Deposits I	2
GEG2307	3.Geology of Mineral Deposits II	2
GEG2308	4.Mining Geology	2
GEG3304	1.Geological and Mining Conditions of Exploitation	3
GGG4408	2.Methods for Mineral Resources Examination	3
ZMG3301	3.Finance Management	3

## 3. Numbers of allowable deficit of ECTS points after particular semesters

Semester	Allowable deficit of ECTS points after semester
1	10
2	10

 ${}^{1}BK$  – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students  ${}^{2}Traditional$  – enter T, remote – enter Z

Opinion of student government legislative body

Date Name and surname, signature of student representative

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Date Dean's signature

 $^{1}$ BK – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students  $^{2}$ Traditional – enter T, remote – enter Z