Kyrgyz State University of Geology, Mining and Natural Resources Development named after academic U. Asanaliev

CURRICULUM

Direction: 630300 - Mining PhD Education Program: Mining

Qualification: DOCTOR BY PROFILE (PhD)

Study period: 3 YEARS

Education form: FULL TIME

"APPROVED"

Rector of KSMU n.a. academic U. Asanaliev

Signature Prof. Dr. A.O. Maralbaev

Protocol # 7_ Academic Council of KSMU n.a. academic U. Asanaliev

from " <u>25</u> " <u>March</u> 2021 Γ.

1. Academic calendar

		Weeks of the academic year																																															
Y	ear	SEP	TEMBE	ER	(остові	ER			NO	VEMI	BER			DE	СЕМВ	ER			JANU	ARY		FEB	RUAR	RY		M	IARCH	Ī			APF	RIL.			M	ΑY			JU	UNE			JUL	Y		A	AUGUS	ST
		1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 23	24	25	26	27	28	29	30	31	32	33	34	35	36	37 3	8 39	40	41	42	43	44	45	46	47	48	49 5	50 5	1 52
	1		EE			•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	E E	=	=	•	•	•	•	•	•	•	•	•	•	•		•	•	•	Е	E	Ш	=	=	=	=	= :	= =	= =
	2	R R	R	R	R	R	R	R	R	R	R	R	R	SRI	SRI	SRI	SRI	SRI	E	=	=	= =	R	R	R	R	R	R	R	R	R	R	R	R	R	R I	R	R	R	R	E	Ш	=	=	=	=	= :	= =	= =
	3	= R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	E	= =	R	R	R	R	R	R	R	R	R	R	R	R	R	E PI	D EPI	EPI	EPD	EPD	DD	=	=	=	=	=	= :	= =	= =

2. Summary of time budget in weeks

			1 year			2 year			T.4.1		
		Semester 1	Semester 2	Subtotal	Semester 3	Semester 4	Subtotal	Semester 5	Semester 6	Subtotal	Total
EE	Entrance examinations	5		5							5
•	Theoretical studies	16	16	32							32
E	Examinations	2	2	4	1	1	2	1	1	2	8
R	Scientific -Research work, incl. a doctoral dissertation				13	19	32	19	13	32	64
SRI	Scientific -research internship				5		5				5
PDD	Pre-defense of the doctoral dissertation								1	1	1
FPD	Final preparation of the doctoral dissertation								4	4	4
DD	Defense of the doctoral dissertation								1	1	1
=	Holidays	2	9	11	4	9	13	3	9	12	36
	Total:	25	27	52	23	29	52	23	29	52	156

3. PLAN OF THE LEARNING PROCESS

			I	Acader	nic vo	lume in h	QA	A form				Di													
NT-	C	noma w				included	i						1 ye	ar		2	year				3 y	ear		Res-	Realized competence
No.	Course names	ECTS credits	Total in hrs	Class				Self	E	(sem,)		1 se	mester	2 semester		3 semester		mester	5	semes	ter	6 se	mester	pons dept.	according to
				hrs	Lec	Prac	Lab	study			Ţ		weeks	16 weeks		16 weeks		weeks		16 wee			weeks		NQF
								RI	оск	T	L	ec I	rac Lab	Lec Prac L	ab L	ec Prac La	b Lec 1	rac La	ь Lec	c Prac	Lab	Lec P	rac Lab) <u> </u>	
						I.	COUR	SES OF			ECT	rioi	N												
D.1.0.	COMPULSORY COURCES	10	300	90	45	45		210																	
D.1.2.	SPATIAL DATA SCIENCE	10	300	90	45	45		210	2					45 45										OPM&B	8 уровень НРК
D.1.3.	ELECTIVE COURCES	15	450	135	45	90	0	315					'												
D.1.3.1	SCIENTIFIC RESEARCH METHODOLOGY AND METHODS / ACADEMIC WRITING AND COMMUNICATION	5	150	45	15	30		105	1		1	.5	30											CB&S	8 уровень НРК
D.1.3.2	HISTORY AND PHILOSOPHY OF SCIENCE / SCIENTOMETRICS	5	150	45	15	30		105	1		1	5	30											PS&HS	8 уровень НРК
D.1.3.3	INTRODUCTION TO GEOSPATIAL PROGRAMMING / APPLIED MATHEMATICS AND STATISTICS	5	150	45	15	30		105	1		1	.5	30											OPM&B	8 уровень НРК
	SUBTOTAL of CYCLE 1 (in academic hours)		750	225	90	135	0	525					135	90											
	SUBTOTAL of CYCLE 1 (in ECTS credits)	25											15	10											
			•		II.	COURS	ES FO	R THE	SPE	CIAL	IZEI	D TI	RAINING	j											•
D.2.0.	COMPULSORY COURCES	15	450	135	60	45	30.0	315																	
D.2.1.	DIGITAL TECHNOLOGIES IN MINE SURVEYING: MOVEMENT AND DEFORMATION OF ROCKS DUE TO MINING	10	300	90	45	45		210	1		4	15	45											G&MS	NQF Level 8
D.2.2.	ADVANCED GEOINFORMATION TECHNOLOGIES IN MINING	5	150	45	15		30	105	1		1	5	30											G&MS	NQF Level 8
D.2.3.	ELECTIVE COURCES	20	600	180	75	45		420																	
D.2.3.1	PERSPECTIVE GEOTECHNOLOGIES FOR OPEN PIT MINING OF MINERAL DEPOSITS	10	300	90	45	45		210	2					45 45										OPM&B	NQF Level 8
D.2.3.2	PERSPECTIVE GEOTECHNOLOGIES FOR UNDERGROUND MINING OF MINERAL DEPOSITS	10	300	90	30		60	210	3					30	60									UMMR	NQF Level 8
	SUBTOTAL of CYCLE 2 (in hours)		1050	315	135	90	30	735					135	180											
	SUBTOTAL of CYCLE 2 (in ECTS credits)	35											15	20											
	TOTAL for BLOCK I (in hours)		1800	540				1260					270	270											
	TOTAL for BLOCK I (in ECTS credits)	60											30	30											

BLOCK II																								
SCIENTIFIC RESEARCH WORK (INCLUDING DOCTORAL DISSERTATION WORK) AND INTERNSHIP																								
	Academic volume in hrs ECTS ECTS Academic volume in hrs included Academic volume in hrs Total Total															Realized								
No.	Course names	ECTS credits	Total in	Class		include	d	Self	E	Total	_	semester	2 semester					_					nons	competence
		credits	hrs	hrs		Prac	Lab	study		week		16 weeks c Prac Lab	Lec Prac La	16 weeks 		16 weeks Lec Prac Lab		16 week Lec Prac		La	Lec 1	weeks	S I	according to NQF
R.3.1	SCIENTIFIC RESEARCH WORK	100	3000	900		900		2100	3-6	83					180	27			270			180	OPM&	B NQF Level 8
R.3.2	SCIENTIFIC RESEARCH INTERNSHIP	10	300	90		90		210	3	8					90								OPM&	B NQF Level 8
	TOTAL for BLOCK II (in hours)		3300											270		270			270			180		
	TOTAL for BLOCK II (in ECTS credits) 110														30	30	0		30			20		
								BLO	OCK :	Ш														
]	FINAL	STATE	EX	AMIN.	ATIC	ON												
No.	Course names																						Res-por	
FSE.1	PREPARATION AND DEFENSE OF THE DOCTORAL DISSERTATION	10	300	90		90		210	6	6										П		90	OPM&	B NQF Level 8
	TOTAL for BLOCK III (in hours)		300																			90		
	TOTAL for BLOCK III (in ECTS credits)	10																				10		
•	Number of exams											5	3		2	1			1			2		
•	TOTAL (in hours) 5400									270	270	270		270		270			270					
	TOTAL (in ECTS credits)	180										30	30		30	30	0		30			30		

The o	curriculun	n was reviewed and ad	opted by the Academic Council of the KSMU n.a. academic U. Asanaliev, Protocol No7_ from _25.03.	2021
Vice rector for scien	nce	_Signature	_ K.K. Orozov	

Vice rector for academic affairs _____Signature_____N.N. Kydyraliev