



WORKING CURRICULUM

of the educational program for 2021-2022 academic year admission
Educational program 7M07206 - "Geology and exploration of solid mineral deposits"
Group of Educational programs M121 - "Geology"

Full-time study

Study duration: 2 years

Academic degree: master of technical sciences

year of study	Code	Name of course	Component	Academic credits	Total hours	audience volume, lec/ lab/ pr.	SIW (including SIWT) in hours	Prerequisites	Code	Name of course	Component	Academic credits	Total hours	audience volume, lec/ lab/ pr.	SIW (including SIWT) in hours	Prerequisites
1	1 semester								2 semester							
	LNG210	Foreign language (professional)	BD IC	5	150	0/0/3	105		AAP244	Pedagogical practice	BD IC	4	120	0/0/2	90	
	HUM208	Management psychology	BD IC	4	120	1/0/1	90		HUM210	History and philosophy of science	BD IC	4	120	1/0/1	90	
	GEO209	Geological modeling of mineral deposits	BD OC	5	150	2/0/1	105		HUM209	Higher school pedagogy	BD IC	4	120	1/0/1	90	
	GEO218	Mineral deposits of Kazakhstan						PD OC	5	150	2/0/1	105	GEO483	Actual problems of modern subsurface	PD OC	5
	GEO220	Metallogenv and ore formations of Kazakhstan	GEO210	Geological support of subsoil use	PD OC	5	150						2/0/1	105		
	GEO208	The geological structure of ore fields and deposits	PD OC	5	150	2/0/1	105		GEO484	Petrogenetic minerals	BD OC	5	150	2/0/1	105	
	GEO214	Advanced well logging						GEO202	Actual problems of geology	PD OC	5	150	2/0/1	105		
	GEO211	GIS uranium deposits	PD OC	5	150	2/1/0	105		GEO485	Genesis of the main industrial deposits	BD OC	5	150	2/0/1	105	
	GEO285	Data Mining						GEO224	Methods of stratigraphic studies	PD OC						5
	GEO211	Geology of the ore-bearing regions of Kazakhstan	PD OC	5	150	2/0/1	105									
AAP242	Master's student scientific research, including an internship and a master's thesis	MSSR	6					AAP242	Master's student scientific research, including an internship and a master's thesis	MSSR	6					
	In total			35					In total			33				
2	3 semester								4 semester							
	GEO231	Basics of petrology	PD OC	5	150	2/0/1	105		AAP236	Research scientific training	PD OC	7				
	GEO306	Petrochemistry						ECA205	Registration and defense of the master's thesis (RaDMT)	FA	12					
	GEO240	Regional geology of the UIC	PD OC	5	150	2/0/1	105									
	GEO709	Geotectonics with geodynamics basics	PD OC	5	150	2/0/1	105									
	GEO283	Actual problems of stratigraphy						GEO305	Volumetric modeling and predictive evaluation of mineral deposits	PD OC	5	150	2/1/0	105		
	GEO223	Methods of lithological research	PD OC	5	150	2/0/1	105									
	GEO212	Geochemistry of radioactive elements						GEO233	Basics of ecological geology	PD OC	5	150	2/0/1	105		
	GEO227	Mineralogy of radioactive and rare earth elements	PD OC	5	150	2/0/1	105									
	GEO714	Geology of uranium deposits						AAP242	Master's student scientific research, including an internship and a master's thesis	MSSR	6			AAP242	Master's student scientific research, including an internship and a master's thesis	MSSR
		In total			31					In total			25			

Decision of the Academic Board of KazNRTU after K. Satbayev. Protocol No. 3 of 25.06 2021

Decision of the Academic Board of the Institute GPMI. Protocol No. 5 of 24.12 2020

Vice-Rector for Academic Affairs **B. Zhautikov**

Director of the Institute **A. Syzdykov**

Head of the Department **A. Bekbotayeva**

Representative of Specialty council **A. Zhunusov**

Number of credits for the whole period of study	
Cycles of disciplines	Credits
The cycle of general education	0
A cycle of basic disciplines (BD IC, BD OC)	36
A cycle of profile disciplines (PD IC, PS OC)	52
All on the theoretical classes:	88
MSSR	24
Registration and defense of the master's thesis (RaDMT)	12
In all:	124