



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												
	GEO208	The geological structure of ore fields and deposits							GEO484	Petrogenetic minerals	BD OC	5	150	2/0/1	105	
	GEO214	Advanced well logging	PD OC	5	150	1/0/2	105		GEO202	Actual problems of geology						
	GEO211	GIS uranium deposits						GEO485	Genesis of the main industrial deposits	BD OC	5	150	2/0/1	105		
	GEO285	Data Mining	PD OC	5	150	2/0/1	105		GEO224	Methods of stratigraphic studies						
GEO211	Geology of the ore-bearing regions of Kazakhstan															
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														
	GEO283	Actual problems of stratigraphy	PD OC	5	150	2/0/1	105									
	GEO305	Volumetric modeling and predictive evaluation of mineral deposits														
	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															
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	6					
	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