

CURRICULUM

of Educational Program on enrollment for 2023-2024 academic year

Educational program 8D07103 - "Materials Science and Engineering"

Group of educational programs D101 - "Materials science and technology of new materials"

Tr.K.I.SATEAYE

Discipline code	Form of study: full-time Name of disciplines E OF BASIC DISCIPLINES	Cycle	Total amount in credits	hours amoun	Classroom	(including	Form of control	lemic degree: Philosophy Doctor (PhD) Allocation of face-to-face training based on courses and semesters I course 2 course					
					amount lec/lab/pr								
								1	2	3	4	5	6
CVCLE								semester	semester	semester	semester	semester	semeste
CICLE	OF BASIC DISCIPLINES	RD)	M 1 M	Indula a	Charle kardad								
			1		f basic traini	ing (univers	ity compon	ient)					
MET322	Scientific research methods	BD UC	5	150	2/0/1	105	E	5					
LNG305	Academic writing	BD UC	5	150	0/0/3	105	Е	5				-1 -1	
					component	of choice							
PHY316	Advanced structural technology hardening	BD CCH	5	150	2/0/1	105	Е	5					
PHY306	Physics and technique of saving and renewable energy	BD CCII			1/1/1,	105							
CYCLE	OF PROFILE DISCIPLINE	S (PD)											
177	The state of the s	is (I D)	M-2. Mod	ule of n	rofessional a	ctivity (com	nonent of	choice)					
PHY317	Applied tasks in material science	PD CCH	5	150	2/0/1	105	E						
PHY303	Physics of low-dimensional structures and systems				2/0/1			5					
PHY318	Software for structuring materials	PD CCH	5	150	2/0/1	105	Е	5 -	77.73				
PHY302	Physicochemical methods of materials research				2/0/1					3			
THE	La karaja di T			M-3	. Practice-or	iented mod	ule						
AAP350	Pedagogical practice	BD UC	10	27-27-		A CONTRACTOR			10				
AAP355	Research practice	PD UC	10	Ele-						10	100		
				M-4. E	xperimental	research m	odule					9,73	11
AAP336	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	5					5					
AAP347	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	40						20	20			
AAP356	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	60								30	30	
AAP348	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	18										18
		10.00	()	M-5.	Module of fi	inal attestat	ion						10.00
ECA303	Writing and defending a doctoral dissertation	FA	12										12
No. of the	Total based on UNIVERSITY:			0,000				30	30	30	30	30	30
								60		60		60	

	Number of credits for the e	ntire perio	d of study					
	Cycles of disciplines	Credits						
Cycle code			university component (UC)	component of choice (CCH)	Total			
BD	Cycle of basic disciplines		20	5	25			
PD	Cycle of profile disciplines		10	10	20			
	Total for theoretical training:	0	30	15	45			
	RWDS				123			
FA	Final attestation	12			12			
	TOTAL:	12	30	15	180			

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol № 5 "24" 11 2022 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 3 "17" 11 2022 y.

Decision of the Academic Council of the Institute M&M. Protocol № 2 "17" 10 2022 y.

Vice-Rector for Academic Affairs

Director of M&M Institute

Head of the MN&EP Department

Specialty Council representative from employers

Zhautikov B.A.

Rysbekov K.B.

Kudaibegenov K.K.

Serikkanov A.S.