KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY named after K. 16 AT EASTER



Chairman of the Management Blurd Rectariof KazNRTU named after 8. Sathaye M.M. Regentae

CURRICULUM

of Educational Program on enrollment for 2024-2025 academic year

Educational program 8D05301 - "Applied and engineering physics" Group of educational programs D090 - "Physics"

	Of in or study. Tun time	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	(including	Form of control	Allocation of face-to-face training based on courses					
disciplin e code								1 course 2 course					
								1 semeste	2	3 semeste r	4 semeste r	5 semeste r	semeste r
VCLE O	F BASIC DISCIPLINES (E	BD)						4					
			M-1. N	Aodule of	NOT THE OWNER.	ing (univers		5		100			
ET322	Scientific research methods	BD UC	5	150	2/0/1	105	Е	-					
NG305	Academic writing	BD UC	5	150	0/0/3	105	E	- 5				1	L
					componen	t of choice			1				
HY319	Physics and technique of saving and renewable energy	BD CCH	5	150	2/0/1	105	E	5					NATE OF THE PARTY
HY305	Synthesis and Physical Properties of Low- dimensional Structures				2/0/1								
ANG350	Sustainability Science				2/0/1			-					
YCLE	OF PROFILE DISCIPLINE	S (PD)	M-2 Me	adule of t	professional	activity (co	mponent of	choice)					
-	Semiconductor		171-27 171										
РНҮ320	heterostructures and devices based on them	PD CCI	5	150	2/0/1	105	E	5					
PHY301	Methods of computational experiment				2/0/1								4
PHY321	Computer simulation of engineering tasks	PD CCI	- 5	150	2/0/1	105	E	5				-	
PHY302	Physicochemical methods of materials research	f	3	5246.5	2/0/1								
				M	-3. Practice	oriented m	odule		1	1			
AAP350	Pedagogical practice	BD UC	10						10	10	+	-	
AAP355	Research practice	PD UC	10							10			
Profit Service		124.1		M-4.	Experimen	tal research	module			_	-	-	
AAP336	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	5					5		20			
AAP34	Research work of a doctors candidate, including internships and completion of a doctoral dissertation	RWD	40 S						20	20			
AAP35	Research work of a doctor candidate, including internships and completion of a doctoral dissertation	RWD	00								30	30	
AAP34	Research work of a doctor candidate, including internships and completion of a doctoral dissertation	RWI											18
				N	1-5. Module	of final att	estation					-	1
ECA3	Writing and defending a doctoral dissertation	FA	12						31)	30	30	30	30

	Number o	of credits for the e	ntire peri	od of study				
	Cycles of dis-		Credits					
Cycle code				university component (UC)	component of choice (CCH)	Total		
BD	Cycle of basic discipl		20	5	25			
PD	Cycle of profile disci			10	10	20		
	Total for theor	0	30	15	45			
	RWDS	3.				123		
TTA	Final attestation		12			12		
FA	Final attestation	TOTAL:	12	30	15	180		

Decision of the Academic Council of Kazntu named after K. Satpayev. Protocol No Decision of the Educational and Methodological Council of Kazntu named after K. Satpayev. Protocol No Or " 18" 04 20 24.

Decision of the Academic Council of the Institute M&M. Protocol No For "15" " 03 2021y.

Vice-Rector for Academic Affairs

Director of M&M Institute

Head of the MN&EP Department

Specialty Council representative from employers

Uskenbayeva R.K.

Rysbekov K.B.

Kudaibegenov K.K.

Idrisova T.K.