



SATBAYEV
UNIVERSITY



APPROVED
Chairman of the Management Board
Rector of Kazntu named after K.Satpayev
I. Begentaev
2022 y.

CURRICULUM
of Educational Program on enrollment for 2022-2023 academic year
Educational program 8D07111 - "Digitalization of machine-building production"
Group of Educational programs D103 - "Mechanics and metalworking"

Form of study: full-time

Duration of study: 3 year

Academic degree: Doctor of Philosophy (PhD)

Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including TSIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters							
								1 course		2 course					
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester		
CYCLE OF BASIC DISCIPLINES (BD)															
M-1. Technical training module (university component)															
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	E	5							
Component of choice															
MSM307	Virtual production	BD CCH	5	150	2/0/1	105	E	5							
MSM306	Advanced Digital factory														
CYCLE OF PROFILE DISCIPLINES (PD)															
M-2. Digital Engineering Module (component of choice)															
IND319	Advanced optimization	PD CCH	5	150	2/0/1	105	E	5							
IND311	Advanced production systems														
IND317	Advanced design of industrial experiments	PD CCH	5	150	2/0/1	105	E	5							
IND321	Advanced solution analysis														
M-3. Practice-oriented module															
AAP350	Pedagogical practice	BD UC	10							10					
AAP355	Research practice	PD UC	10								10				
M-4. Experimental research module															
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	
M-5. Module of final attestation															
ECA303	Writing and defending a doctoral dissertation	FA	12											12	
Total based on UNIVERSITY:										30	30	30	30	30	30
										60	60	60	60	60	60

Number of credits for the entire period of study					
Cycle code	Cycles of disciplines	Credits			
		university component (UC)	component of choice (CCH)	Total	
BD	Cycle of basic disciplines		20	5	25
PD	Cycle of profile disciplines		10	10	20
	<i>Total for theoretical training:</i>	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 № 13 от "28" 04 20 22y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 7 от "16" 04 20 22y.

Decision of the Academic Council of the Institute E&ME. Protocol № 30 от "30" 01 20 22y.

Vice-Rector for Academic Affairs B. A. Zhautikov

E&ME Institute Director K. Yelemessov

ME,SC&M Department Head M. Issametova

Representative of the Council for EP from Employers I. Dyusebaev